GALGOTIAS UNIVERSITY

(Established under Galgotias University Uttar Pradesh Act No. 14 of 2011)

Automated vehicle Parking System

A Project Report of Project- 2

Submitted by

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17SCSE122003

1713122003

in partial fulfilment for the award of the degree

of

BACHELOR of COMPUTER APPLICATION

Multimedia and animation

IN

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Under the Supervision of

Dr. Anvesha katti

May 2020

GALGOTIAS UNIVERSITY

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SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

BONAFIDE CERTIFICATE

Certified that this project report "**Automated vehicle Parking System "** is the bonafide work Of " **Mohd Sadik**" who carried out the project work under my supervision.

SIGNATOR	**SIGNATOR**
DR. Samson Ebenezar	**Dr. Anvesha katti**
HEAD OF THE DEPARTMENT	**SUPERVISOR**
SCSE	**SCSE**

ACKNOWLEDGEMENT

We take this occasion to thank God, almighty for blessing us with his grace and taking our endeavor to a successful culmination. We extend our sincere and heartfelt thanks to our esteemed guide, **Dr. Anvesha katti**, for providing us with the right guidance and advice at the crucial junctures and for showing me the right way. We would like to thank the other faculty members also, at this occasion. Last but not the least, we would like to thank our friends and family for the support and encouragement they have given us during the course of our work.

TABLE OF CONTENTS

ABSTRACT 5
1. INTRODUCTION 6
1.1 PROJECT AIMS AND OBJECTIVES 6
1.2 BACKGROUND OF PROJECT 7
1.3 OPERATION ENVIRONMENT 8
2. SYSTEM ANALYSIS 9
2.1 SOFTWARE REQUIREMENT SPECIFICATION 9
2.2 EXISTING VS PROPOSED 15
2.3 SOFTWARE TOOL USED 16
3. SYSTEM DESIGN 20
3.1 TABLE DESIGN 20
3.2 DATA FLOW DIAGRAM'S 24
4. SYSTEM IMPLEMENTATION 30
4.1 MODULE DESCRIPTION 30
4.2 SCREEN SHOTS 80
5. SYSTEM TESTING 85
5.1 UNIT TESTING 85
5.2 INTEGRATION TESTING 87
6. CONCLUSION & FUTURE SCOPE 88
7. REFERENCES 89

ABSTRACT

In our days, finding an available parking space can be considered as time and fuel consuming. Therefore, it may cause drivers to be frustrated; which will lead to inappropriate parking. This will lead to bad traffic around the parking space and may also lead to accident. That is why this project proposes an Intelligent Parking System that uses various sensors which will be based on Arduino Uno and also an Android Application as interface to help book or view available spaces. This project will help solve problems mentioned by allowing users to view and select available space in the parking; which will prevent users from driving around the parking for long. In this project, the Arduino Ethernet Shield W5100 Card slot will be used as the link between the Arduino and the android application. By transferring data collected from the Arduino to an online server so as to enable the android application to access those data. As a conclusion, this project will help in reducing the amount of time a driver has to spend around the parking just to find an available spot, reducing the amount of traffic around the parking and also reducing the bad parking around the parking space.

CHAPTER 1

INTRODUCTION

This chapter gives an overview about the aim, objectives, background and operation environment of system.

1.1 PROJECT AIMS AND OBJECTIVES

The project aims and objectives that will be achieved after completion of this project are discussed in this subchapter. The aims and objectives are as follows

Automated vehicle parking system Request column for Automation for providing new vehicle books A separate column for digital Automated User login page where user can find vehicles issued by him/her and date of return. A search column to search availability of vehicles

A Admin login page where Admin can add any events being organized in the Parking and important suggestions regarding Vehicles Online notice board about the Parking Area. With the great increase in cars, finding a parking around have been a major problem in our days. Therefore people make use of two different sort of parking managements systems namely: The automatic parking system and the Marshaling Parking System. The Marshaling Parking System is a type of parking whereby an officer or officers are required to be on ground so as to indicate to drivers where there is a slot available. The automatic car parking system is a type of parking that is designed to help the driver and administrators of the parking status which is either putting screens to notify drivers of the number of space available.

1.2 BACKGROUND OF PROJECT

Automated vehicle parking System is an application which refers to Parking systems which are generally small or medium in size. It is used by vehicles to manage the Parking using a computerized system where he/she can record various transactions like issue of vehicles, return of vehicles, addition of new vehicles, addition of new person etc.

Vehicles and User maintenance modules are also included in this system which would keep track of the User using the Vehicle and also a detailed description about the vehicles a Parking contains. With this computerized system there will be no loss of vehicles record or member record which generally happens when a non-computerized system is used.

In addition, report module is also included in Automated parking system. If user's position is admin, the user is able to generate different kinds of reports like lists of User registered, list of vehicles, issue and return reports.

All these modules are able to help Automatian to manage the parking with more convenience and in a more efficient way as compared to Parking systems which are not computerized.

1.3 OPERATION ENVIRONMENT

DATABASE	MY SQL
OPERATING SYSTEM	WINDOWS VISTA, WINDOWS10, UBUNTU
MEMORY	1GB RAM OR MORE
HARD DISK SPACE	MINIMUM 3 GB FOR DATABASE USAGE FOR FUTURE
PROCESSOR	INTEL CORE PROCESSOR OR BETTER PERFORMANCE

CHAPTER 2

SYSTEM ANALYSIS

In this chapter, we will discuss and analyze about the developing process of Automated vehicles parking System including software requirement specification (SRS) and comparison between existing and proposed system. The functional and non-functional requirements are included in SRS part to provide complete description and overview of system requirement before the developing process is carried out. Besides that, existing vs proposed provides a view of how the proposed system will be more efficient than the existing one.

2.1 SOFTWARE REQUIREMENT SPECIFICATION

2.1.1 GENERAL DESCRIPTION

PRODUCT DESCRIPTION:

Automated vehicles parking System is a computerized system which helps user to manage the Parking daily activity in electronic format. It reduces the risk of paper work such as file lost, file damaged and time consuming.
It can help user to manage the transaction or record more effectively and time-saving.

PROBLEM STATEMENT:

The problem occurred before having computerized system includes:

File lost When computerized system is not implemented file is always lost because of human environment. Sometimes due to some human error there may be a loss of records.

File damaged When a computerized system is not there file is always lost due to some accident like spilling of water by some member on file accidentally. Besides some natural disaster like floods or fires may also damage the files.

Difficult to search record When there is no computerized system there is always a difficulty in searching of records if the records are large in number.

Space consuming After the number of records become large the space for physical storage of file and records also increases if no computerized system is implemented.

Cost consuming as there is no computerized system the to add each record paper will be needed which will increase the cost for the management of library.

2.1.2 SYSTEM OBJECTIVES

Improvement in control and performance

The system is developed to cope up with the current issues and problems of Parking. The system can add user, validate user and is also bug free.

Save cost

After computerized system is implemented less human force will be required to maintain the Parking thus reducing the overall cost.

Save time

User is able to search record by using few clicks of mouse and few search keywords thus saving his valuable time.

Option of online Notice board

will be a User to provide a detailed description of workshops going in the parking as well as in nearby Any Area
Admin have a facility to upload Date in a pdf file having size not more than 10mb

2.1.3 SYSTEM REQUIREMENTS

2.1.3.1 NON-FUNCTIONAL REQUIREMENTS

Product Requirements

EFFICIENCY REQUIREMENT

When a Automated vehicle Parking system will be implemented costumer and user will easily access Parking as searching and vehicles transaction will be very faster.

RELIABILITY REQUIREMENT

The system should accurately perform member registration, member validation, report generation, vehicles transaction and search.

USABILITY REQUIREMENT

The system is designed for a user-friendly environment so that User and staff of Parking can perform the various tasks easily and in an effective way.

ORGANIZATIONAL REQUIREMENT

IMPLEMENTATION REQUIREMNTS

In implementing whole system, it uses html in front end with php as server-side scripting language which will be used for database connectivity and the backend i.e. the database part is developed using MySQL.

DELIVERY REQUIREMENTS

The whole system is expected to be delivered in six months of time with a weekly evaluation by the project guide.

2.1.3.2 FUNCTIONAL REQUIREMENTS

1. NORMAL USER
1.1 USER LOGIN

Description of feature
This feature used by the user to login into system. They are required to enter user id and password before they are allowed to enter the system. The user id and password will be verified and if invalid id is there user is allowed to not enter the system.

Functional requirements
-user id is provided when they register
-The system must only allow user with valid id and password to enter the system
-The system performs authorization process which decides what user level can access to.
-The user must be able to logout after they finished using system.

1.2 REGISTER NEW USER

Description of feature
This feature can be performed by all users to register new user to create account.
Functional requirements
-System must be able to verify information
-System must be able to delete information if information is wrong.

1.3 REGISTER NEW Vehicle

Description of feature
This feature allows to add new Vehicles to the Parking
Functional requirements
-System must be able to verify information
-System must be able to enter number of copies into table.
- System must be able to not allow two vehicles having same vehicles id.

1.5 SEARCH Vehicles

DESCRIPTION OF FEATURE
This feature is found in book maintenance part. we can search Vehicles based on vehicles id, vehicles name, publication or by author name.
Functional requirements
- System must be able to search the database based on select search type

- System must be able to filter Vehicles based on keyword entered

- System must be able to show the filtered vehicles in table view

1.6 ISSUE BOOKS AND RETURN Vehicles

DESCRIPTION OF FEATURE

This feature allows to issue and return Vehicles and also view reports of Vehicles issued.
Functional requirements
-System must be able to enter issue information in database.
-System must be able to update number of vehicles.
- System must be able to search if Vehicles is available or not before issuing Vehicles
-System should be able to enter issue and return date information.

1.7 EVENT ADDITION
DESCRIPTION OF FEATURE

This feature allows teacher and student to add information about various workshops being conducted in college and colleges nearby.

Functional requirements
-System should be able to add detailed information about events.
-System should be able to display information on notice board available in the homepage of site.

2.1.4 SOFTWARE AND HARDWARE REQUIREMENTS

This section describes the software and hardware requirements of the system

2.1.4.1 SOFTWARE REQUIREMENTS

Operating system- Windows 7 is used as the operating system as it is stable and supports more features and is more user friendly

Database MYSQL - MYSQL is used as database as it easy to maintain and retrieve records by simple queries which are in English language which are easy to understand and easy to write.

Development tools and Programming language- HTML is used to write the whole code and develop webpages with CSS, java script for styling work and php for sever side scripting.

2.1.4.2 HARDWARE REQUIREMENTS

- Intel core i5 2nd generation is used as a processor because it is fast than other processors an provide reliable and stable and we can run our pc for long time. By using this processor, we can keep on developing our project without any worries.
- Ram 1 gb is used as it will provide fast reading and writing capabilities and will in turn support in processing

2.2 EXISTING VS PROPOSED SYSTEM

I. Existing system does not have any facility of User login or User login whereas proposed system will have a facility of student login as well as User login

ii. Existing system does not have a facility of online reservation of Vehicles whereas proposed system has a facility of online reservation of Vehicles

iii. Existing system does not have any facility of online notice board where description of workshops happening in our Parking as well as nearby Parking is being provided.

iv. Existing system does not have any option of lectures notes uploaded by User whereas proposed system will have this facility

v. Existing system does not have any facility to generate student reports as well book issue reports whereas proposed system provides Parking with a tool to generate reports

vi. Existing system does not have any facility for Vehicle request and suggestions where as in proposed system after logging in to their accounts student can request Vehicles as well as provide suggestions to improve Parking

2.3 SOFTWARE TOOLS USED

The whole Project is divided in two parts the front end and the back end.

2.3.1 Front end

The front end is designed using of html, Php, CSS, Java script

HTML- **HTML** or **Hyper Text mark up Language** is the main mark up language for creating web pages and other information that can be displayed in a web browser.HTML is written in the form of HTML elements consisting of *tags* enclosed in angle brackets (like <html>), within the web page content. HTML tags most commonly come in pairs like <h1> and </h1>, although some tags represent *empty elements* and so are unpaired, for example <img>. The first tag in a pair is the *start tag*, and the second tag is the *end tag* (they are also called *opening tags* and *closing tags*). In between these tags' web designers can add text, further tags, comments and other types of text-based content. The purpose of a web browser is to read HTML documents and compose them into visible or audible web pages. The browser does not display the HTML tags, but uses the tags to interpret the content of the page.HTML elements form the building blocks of all websites. HTML allows images and objects to be embedded and can be used to create interactive forms. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. It can embed scripts written in languages such as JavaScript which affect the behaviour of HTML web pages.

CSS- **Cascading Style Sheets** (**CSS**) is a style sheet language used for describing the look and formatting of a document written in a markup language. While most often used to style web pages and interfaces written in HTML and XHTML, the language can be applied to any kind of XML document, including plain XML, SVG and XUL. CSS is a cornerstone specification of the web and almost all web pages use CSS style sheets to describe their presentation.CSS is designed primarily to enable the separation of document content from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification
of presentation characteristics, enable multiple pages to share formatting, and reduce complexity and repetition in the structural content (such as by allowing for table less web design).CSS can also allow the same markup page to be presented in different styles for different rendering methods, such as on-screen, in print, by voice (when read out by a speech-based browser or screen reader) and on Braille-based, tactile devices. It can also be used to allow the web page to display differently depending on the screen size or device on which it is being viewed. While the author of a document typically links that document to a CSS file, readers can use a different

style sheet, perhaps one on their own computer, to override the one the author has specified. However, if the author or the reader did not link the document to a specific style sheet the default style of the browser will be applied.CSS specifies a priority scheme to determine which style rules apply if more than one rule matches against a particular element. In this so-called *cascade*, priorities or *weights* are calculated and assigned to rules, so that the results are predictable.

JAVA SCRIPT- **JavaScript** (**JS**) is a dynamic computer programming language. It is most commonly used as part of web browsers, whose implementations allow client-side scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is displayed. It is also being used in server-side programming, game development and the creation of desktop and mobile applications. JavaScript is a prototype-based scripting language with dynamic typing and has first-class functions. Its syntax was influenced by C. JavaScript copies many names and naming conventions from Java, but the two languages are otherwise unrelated and have very different semantics. The key design principles within JavaScript are taken from the Self and Scheme programming languages. It is a multi-paradigm language, supporting object-oriented, imperative, and functional programming styles. The application of JavaScript to use outside of web pages—for example, in PDF documents, site-specific browsers, and desktop widgets—is also significant. Newer and faster JavaScript VMs and platforms built upon them (notably Node.js) have also increased the popularity of JavaScript for server-side web applications. On the client side, JavaScript was traditionally implemented as an interpreted language but just-in-time compilation is now performed by recent (post-2012) browsers.

PHP- **PHP** is a server-side scripting language designed for web development but also used as a general-purpose programming language. PHP is now installed on more than 244 million websites and 2.1 million web servers. Originally created by Rasmus Lerdorf in 1995, the reference implementation of PHP is now produced by The PHP Group. While PHP originally stood for *Personal Home Page*, it now stands for *PHP: Hypertext Preprocessor*, a recursive backronym.PHP code is interpreted by a web server with a PHP processor module, which generates the resulting web page: PHP commands can be embedded directly into an HTML source document rather than calling an external file to process data. It has also evolved to include a command-line interface capability and can be used in standalone graphical applications. PHP is free software released under the PHP License. PHP can be deployed on most web servers and also as a standalone shell on almost every operating system and platform, free of charge.

2.3.2 BACK END- The back end is designed using MySQL which is used to design the databases

MYSQL- **MySQL** ("My S-Q-L", officially, but also called "My Sequel") is (as of July 2013) the world's second most widely used open-source relational database management system (RDBMS). It is named after co-founder Michael Widenius daughter, My. The SQL phrase stands for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation .MySQL is a popular choice of database for use in web applications, and is a central component of the widely used LAMP open source web application software stack (and other 'AMP' stacks). LAMP is an acronym for "Linux, Apache, MySQL, Perl/PHP/Python." Free-software-open source projects that require a full-featured database management system often use MySQL. For commercial use, several paid editions are available, and offer additional functionality. Applications which use MySQL databases
include: TYPO3, MODx, Joomla, WordPress, phpBB, MyBB, Drupal and other software. MySQL is also used in many high-profile, large-scale websites, including Wikipedia, Google (though not for searches), Facebook, Twitter, Flickr, and YouTube.

SYSTEM DESIGN

3.1 TABLE DESIGN

VARIOUS TABELS TO MAINTAIN INFORMATION

Vehicle Maintenance Log

Year	
Make	
Model	
VIN	

Date	Mileage	Maintenance Work Done	Equipment Used	Service Provider	Cost

www.BusinessFormTemplate

User TABLE FOR User INFORMATION

Admin TABLE TO KEEP USER INFORMATION

Table Name : Register

Function: Displays user details.

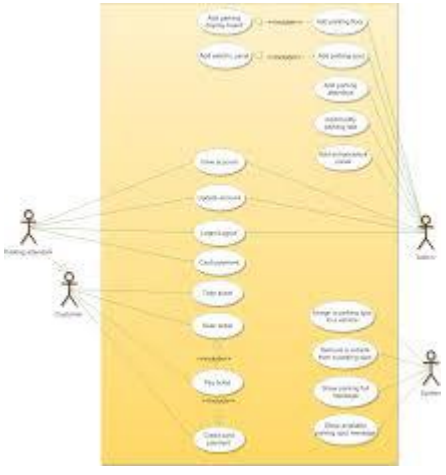
Fields	Data Type
Mobile No	Number
Name	Varchar2
Email	Varchar2
License	Varchar2
Car No	Varchar2

Table Name: Booked Slot Table

Function: Display cars information after booking the slot

Fields	Data Type
Car No	Varchar2
Duration	Varchar2
Floor No	Varchar2
Slot No	Varchar2

Issue table to keep track vehicles issued



USER LOGIN TABLE

Table Name: Booked Slot Table

Function: Display cars information after booking the slot

Fields	Data Type
Car No	Varchar2
Duration	Varchar2
Floor No	Varchar2
Slot No	Varchar2

EVENT TABLE FOR EVENT INFORMATION

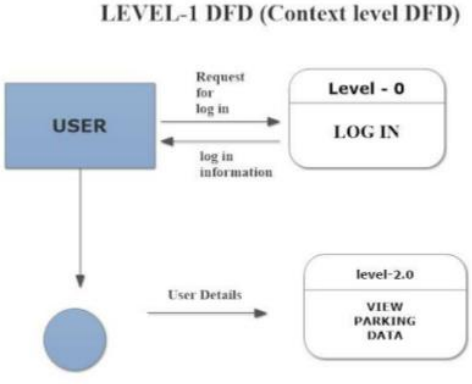
Field	Data type	Default	Key	Extra
Name	Varchar(255)	NULL		
Date	Date(yyyy/mm/dd)	NULL		
Time	VARCHAR(255)	NULL		
Mname	VARCHAR(255)	NULL		
Contactno.	Int(30)	NULL		
Email	VARCHAR(255)	NULL		
Venue	varchar(255)	NULL		

USER LOGIN TABLE

Field	Data Type	Default	Key	Extra
Loginid	INT(11)	NOT NULL	Foreign key	References teacher
Username	VARCHAR(255)	NULL		
Password	VARCHAR(255)	NULL		

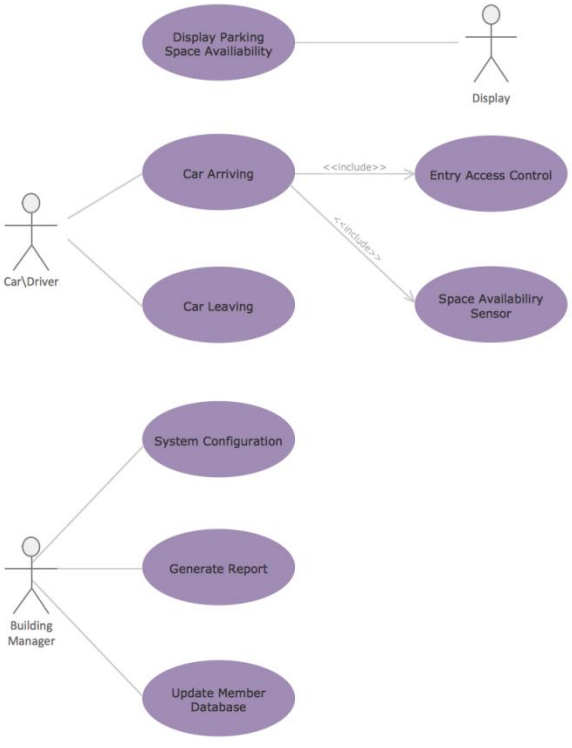
3.2 DATA FLOW DIAGRAMS

DATA FLOW DIAGRAM FOR USER LOGIN



After entering to the home page of the website, Admin can choose the ADMIN LOGIN option where they are asked to enter username & password, and if he/she is a valid user then a Admin login page will be displayed.

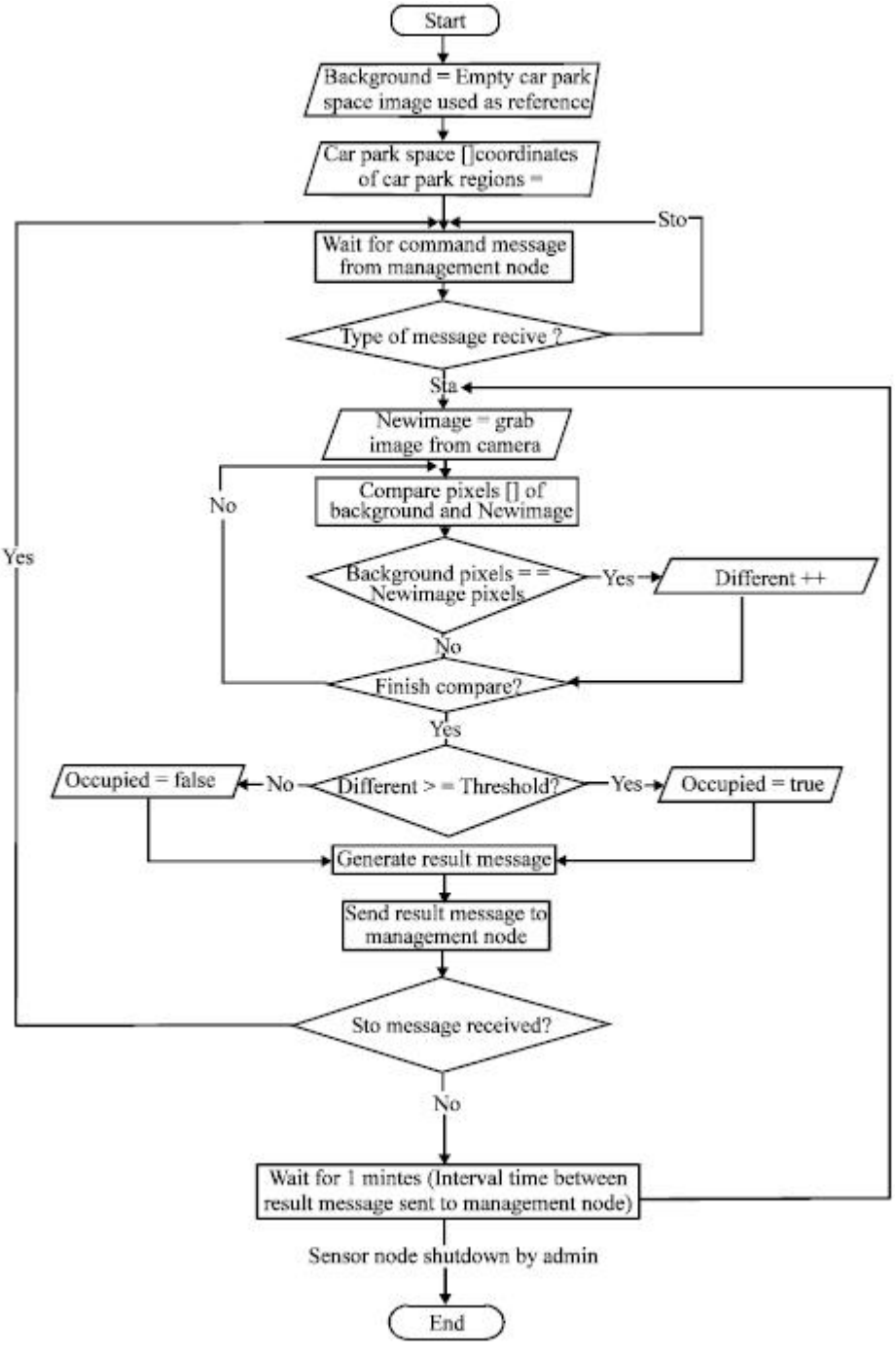
DATA FLOW DIAGRAM FOR USER LOGIN



After entering to the home page of the website, User can choose the USER LOGIN option where they are asked to enter username & password, and if he/she is a valid user then a student login page will be displayed.

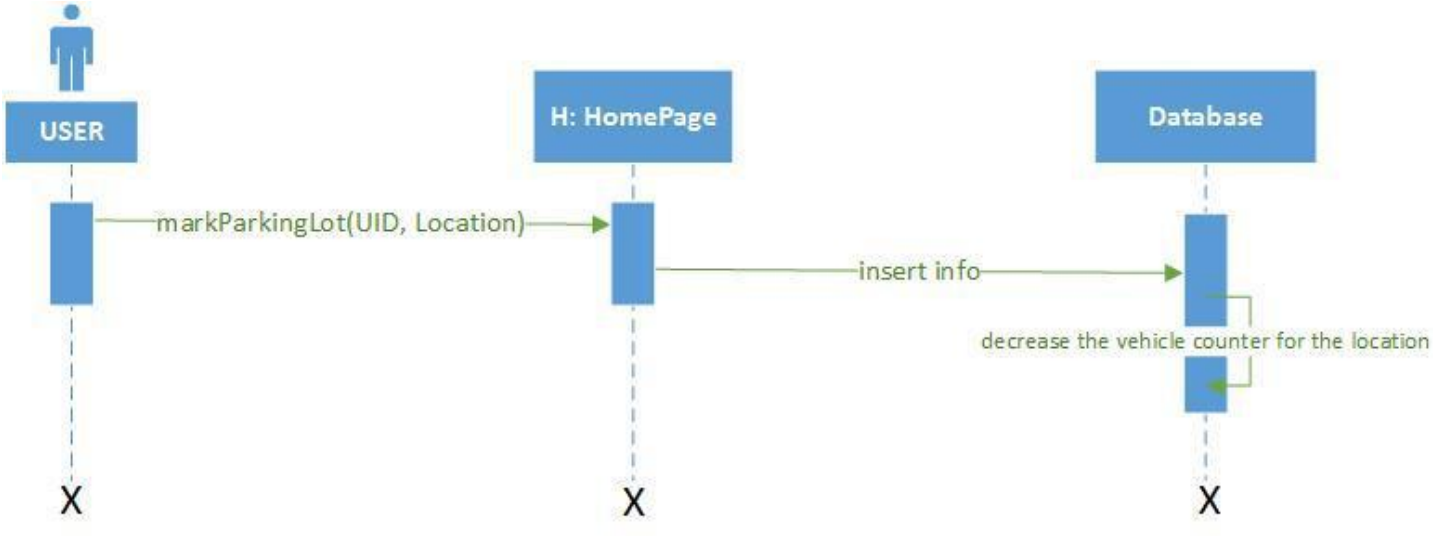
DATA FLOW DIAGRAM FOR VEHICLES ISSUE

It is a 2nd level Data Flow Diagram where after entering USER LOGIN page he/she can select a Vehicles issue option where after entering the Vehicle detail, he/she can select the book issue option and if the maximum no of books issued limit is not crossed then a request will be sent to the librarian who will approve the vehicles issue



After the home page login there will be an option of the book search where after entering book detail like author name, publication, book name etc book details will be displayed.

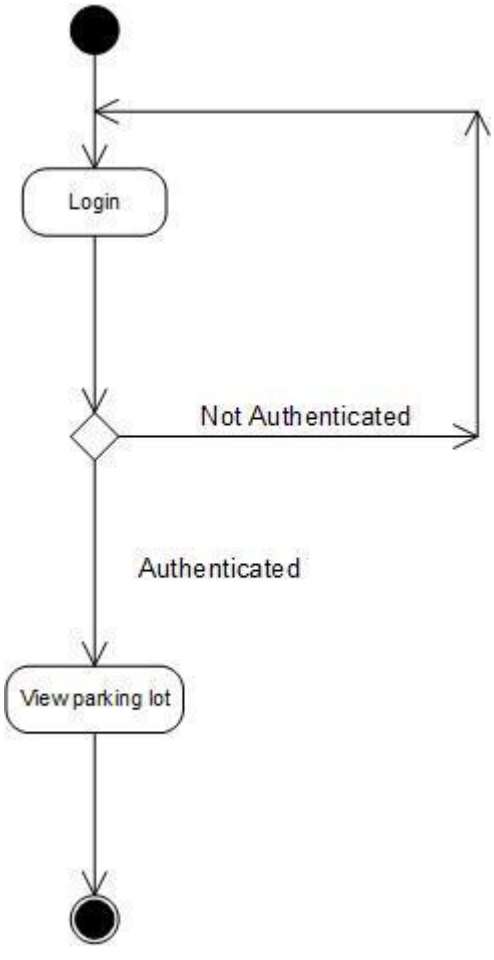
DATA FLOW DIAGRAM FOR ACCOUNT CREATION



After the home page login there will be an option of CREATE AN ACCOUNT where after entering User detail, if all the fields are filled then a request will be sent to the Parking who will approve him as a registered member of the Parking.

SYSTEM IMPLEMENTATION

4.1.1 Screenshot for homepage



4.1 MODULE DESCRIPTION

For AUTOMATED VEHICLES PARKING SYSTEM it is divided into the following Modules:

application such as add a new user, update, delete a user, to view the detail information of client, managing parking lot information such as booking, updating ,viewing different type of parking (car park,trailer park,lorry park) ,cancel the booking and also managing the system administrator setting. The logged in user can update his/her password by providing the current password and can log off the system.

Figure 1: below shows two flow chart that demonstrates how the system works.

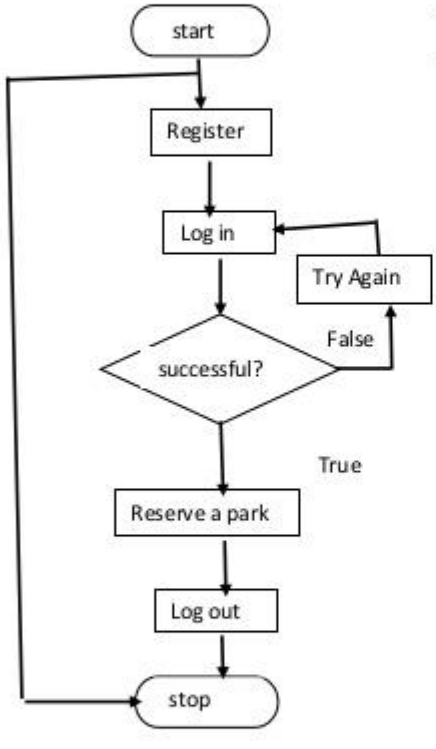
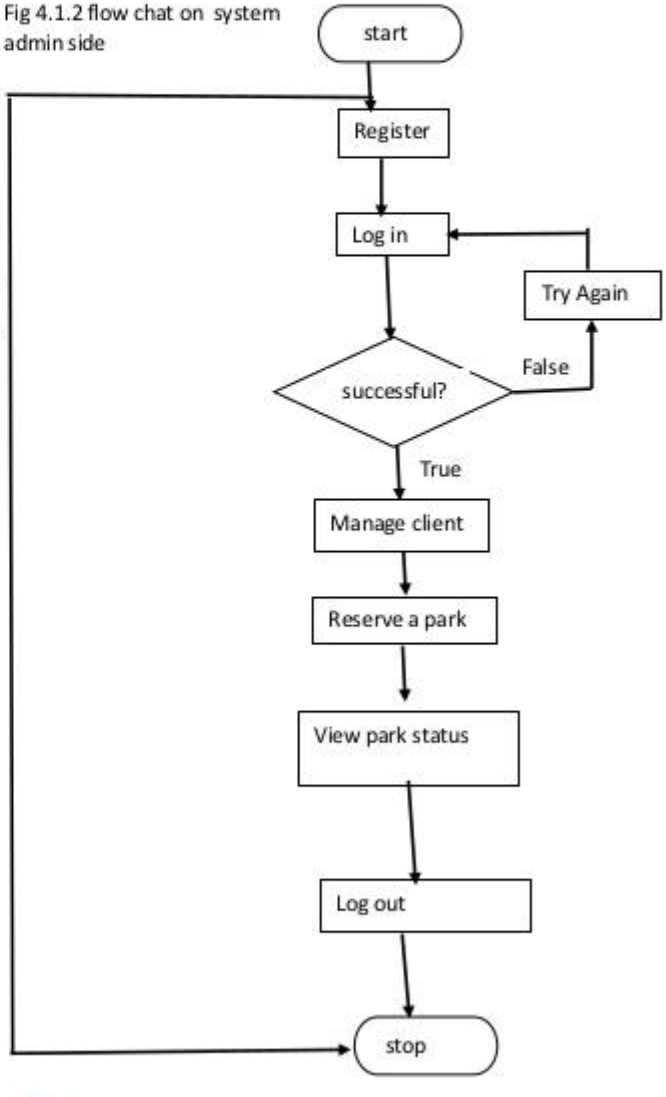


Fig 4.1.1:flow chart on client side

Fig 4.1.2 flow chat on system admin side



The following module contains various facilities like student validation, teacher registration, book addition, and report generation.

4.1.1.1 Code for Admin module

4.1.1.1 Code for entering admin username and password

```
<?php
//Start session
session_start();
//Unset the variables stored in session
unset($_SESSION['SESS_FIRST_NAME']);
unset($_SESSION['SESS_LAST_NAME']);
?>
<!DOCTYPE html>
<html xml:lang="EN" lang="EN" dir="ltr">
<head>
<title>SOE AUTOMATEED VEHICLE PARKING SYSTEM</title>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<meta http-equiv="imagetoolbar" content="no" />
<link rel="stylesheet" href="../styles/layout.css" type="text/css" />
<!-- Homepage Specific Elements -->
<script type="text/javascript" src="../scripts/jquery-1.4.1.min.js"></script>
<script type="text/javascript" src="../scripts/jquery-ui-1.7.2.custom.min.js"></script>
<script type="text/javascript" src="../scripts/jquery.tabs.setup.js"></script>
<!-- End Homepage Specific Elements -->
</head>
<body id="top">
<div class="wrapper row1">
<div id="header" class="clear">
<div class="fl_left">
<h1><a href="homepage.php">SOE LIBRARY MANAGEMENT SYSTEM</a></h1>
<p></p>
</div>
<div class="fl_right">
<ul>
<li><a href="http://localhost/xampp/project/vehicle/homepage.php">Home</a></li>
<li><a href="http://localhost/xampp/project/vehicle/contact/Contactus.php">Contact
Us</a></li>
<li><a href="http://localhost/xampp/project/vehicle/egateway/egateway.php">E-
Gateway</a></li>
```

```
<li><a href="http://localhost/xampp/project/library/studentlogin/studentlogin.php">User Login</a></li>
<li ><a href="teacherlogin.php">Teacherlogin</a></li>
<li><a href="http://localhost/xampp/project/library/admin/adminlogin.php">Adminlogin</a></li>
</ul>
<form action="#" method="post" id="sitesearch">
<fieldset>
<strong>Search:</strong>
<input type="text" value="Search Our webiste for books;" onfocus="this.value=(this.value=='Search Our website for books;')? " : this.value ;" />
<input type="image" src="../images/search.gif" id="search" alt="Search" />
</fieldset>
</form>
</div>
</div>
</div>
<!--
################################################################################
############################## -->
<div class="wrapper row2">
<div class="rnd">
<!-- ###### -->
<div id="topnav">
<ul>
<li class="active"><a href="http://localhost/xampp/project/library/homepage.php">Home</a></li>
<li><a href="http://localhost/xampp/project/library/newarrivals.php">New Arrivals</a></li>
<li><a href="http://localhost/xampp/project/library/onlinebooks.php">Online Books</a></li>
```

```
<li><a href="http://localhost/xampp/project/library/egallery.php">E Gallery</a></li>
<li><a href="http://localhost/xampp/project/library/questionpaper.php">Question
Paper</a></li>
<li><a href="http://localhost/xampp/project/library/aboutus.php">About Us</a></li>
<li><a href="http://localhost/xampp/project/library/bookissue.php">Book Issue </a></li>
<li class="last"><a href="#"></a></li>
</ul>
</div>
<!-- ###### -->
</div>
</div>
<!--
################################################################################
############################## -->
<div class="wrapper">
<div id="featured_slide" class="clear">
<!-- ###### -->
<div class="overlay_left"></div>
<div id="featured_content">
<div class="featured_box" id="fc1"><img src="../images/demo/slider/1.gif" alt="" />
<div class="floater">
<h2>All ABOUT SOE LIBRARY</h2>
<p>School oF Engineering Library or the S.O.E library is one of the finest library in kerela
having a good collection of books related to various subjects</p>
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id= "fc2"><img src="../images/demo/slider/2.gif" alt="" />
<div class="floater">
<h2>Existence</h2>
<p>School oF Engineering library came into existence in year 1995 and from then on it has
been a premier source of information for college students</p>
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id="fc3"><img src="../images/demo/slider/3.gif" alt="" />
<div class="floater">
<h2>Collection</h2>
<p>
```

```
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id="fc4"><img src="../images/demo/slider/4.gif" alt="" />
<div class="floater">
<h2>E-Repository</h2>
<p>School oF Engineering Library has a collection of 6000 cds and 2800 online journals and also has a section where teachers upload their lectures notes and student can download them.</p>
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id="fc5"><img src="../images/demo/slider/5.gif" alt="" />
<div class="floater">
<h2>Latest News and events</h2>
<p></p>
<p class="readmore"><a href="#">Click here to go to latest news page;</a></p>
</div>
</div>
</div>
<ul id="featured_tabs">
<li><a href="#fc1">All About The Library</a></li>
<li><a href="#fc2">Existence</a></li>
<li><a href="#fc3">Collection of Books</a></li>
<li><a href="#fc4">E-Repository</a></li>
<li class="last"><a href="#fc5">Latest News &amp;amp; Events</a></li>
</ul>
<div class="overlay_right"></div>
<!-- ###### -->
</div>
</div>
<!--
############################################################################################################################ -->
<div class="wrapper row3">
<div class="rnd">
<div id="container" class="clear">
<!--
############################################################################################################################ -->
<div id="homepage" class="clear">
<!-- ###### -->
<div id="left_column">
```

```
<h2>Sugeestion</h2>
<div class="imgholder"><a href="#"><img src="../images/images/suggestions.jpg" alt=""
/></a></div>
<h2>Book request</h2>
<div class="imgholder"><a href="#"><img src="../images/images/bookrequest1.jpg" alt=""
/></a></div>
<h2>Account creation</h2>
<div class="imgholder"><a href="#"><img src="../images/images/account.jpg" alt=""
/></a></div>
<h2>Photos</h2>
<div class="imgholder"><a href="#"><img src="../images/images/photos.jpg" alt=""
/></a></div>
</div>
<!-- ###### -->
<div id="latestnews">
<h2>Pls enter username and password to login</h2>
<table>
<form action="checklogin.php" method="post"><br><br>
Username:<input name="username" type="text" maxlength="12"><br><br>
Password:<input name="password" type="password" maxlength="12">
<input name="submit" type="submit">
</form>
</table>
</div>
<!-- ###### -->
<!-- ###### -->
</div>
<!--
##########################################################################################
########################## -->
<!--
##########################################################################################
########################## -->
<div id="academiclinks" class="clear">
<h2>Quickly Find What You Are Looking For</h2>
<div class="linkbox">
<ul>
<li><a href="http://localhost/xampp/project/library/homepage.php">&raquo; Home</a></li>
<li><a href="http://localhost/xampp/project/library/studentlogin.php">&raquo; Student
Login</a></li>
<li><a href="teacherlogin.php">&raquo; Teacher Login</a></li>
<li><a href="http://localhost/xampp/project/library/adminlogin.php">&raquo;
Adminlogin</a></li>
```

```
<li><a href="http://localhost/xampp/project/library/newarrival.php">&raquo; New
Arrivals</a></li>
<li><a href="http://localhost/xampp/project/library/onlinebooks.php">&raquo; Online
Books</a></li>
<li><a href="http://localhost/xampp/project/library/egallery.php">&raquo; E-Gallery</a></li>
<li><a href="http://localhost/xampp/project/library/aboutus.php">&raquo; About Us</a></li>
<li><a href="http://localhost/xampp/project/library/contactus.php">&raquo; Contact
Us</a></li>
<li><a href="http://localhost/xampp/project/library/questionpaper.php">&raquo; Question
Papers</a></li>
<li><a href="http://localhost/xampp/project/library/latestnews.php">&raquo; Latest Events &
News</a></li>
</ul>
</div>
<!--
########################################################################################
############################ -->
</div>
</div>
</div>
<!--
########################################################################################
############################ -->
<!--
########################################################################################
############################ -->
<div class="wrapper">
<div id="copyright" class="clear">
<p class="fl_left">Copyright &copy; 2014 - All Rights Reserved for SOE LIBRARY-</p>
</div>
</div>
</body>
</html>
```

4.1.1.2 Code for checking of admin username and password information

```
<?php
session_start();
$host="localhost"; // Host name
$username="root"; // Mysql username
$password=""; // Mysql password $db_name="admin"; // Database name
$tbl_name="adminlogin"; // Table name
// Connect to server and select databse.
mysql_connect("$host", "$username", "$password")or die("cannot connect");
mysql_select_db("$db_name")or die("cannot select DB");
// username and password sent from form
$myusername=$_POST['username'];
$mypassword=$_POST['password'];
$sql="SELECT * FROM $tbl_name WHERE username='$myusername' and
password='$mypassword'";
$result=mysql_query($sql);
// Mysql_num_row is counting table row
$count=mysql_num_rows($result);
// If result matched $myusername and $mypassword, table row must be 1 row
if($count>0)
{ session_regenerate_id();
$member = mysql_fetch_assoc($result);
$_SESSION['SESS_FIRST_NAME'] = $member['username'];
$_SESSION['SESS_LAST_NAME'] = $member['password'];
session_write_close();
header("location: adminlogin1.php");
exit();
}else {
//Login failed
$errmsg_arr[] = 'user name and password not found';
$errflag = true;
if($errflag) {
$_SESSION['ERRMSG_ARR'] = $errmsg_arr;
session_write_close();
header("location: adminlogin.php");
exit();
}
}
?>
```

4.1.1.3 Code for student validation

```
<?php
require '../include/connection.php';
$result = mysqli_query($con,"SELECT * FROM student");
while($row = mysqli_fetch_array($result))
{
$libid=$row['libid'] ; Library Management System Division Of Computer Science And
Engineering Page 37
stuname'] ;
$branch= $row['branch'] ;
$semester= $row['semester'] ;
$section= $row['section'] ; Library Management System Division Of Computer Science And
Engineering Page 38
$regno= $row['regno'] ;
$name= $row['stuname'] ;
$branch= $row['branch'] ;
$semester= $row['semester'] ;
$section= $row['section'] ;
$yearofadm= $row['yearofadm'];
$email=$row['email'];
$username= $row['username'];
$password= $row['password'];
}
mysqli_close($con);
?>
<?php
require '../include/connection1.php';
$admin="admin@soelibrary.com";
$sql="INSERT INTO student(Libid,regno,stuname,branch,semester,section,yearofadm)
VALUES
('$libid','$regno','$name','$branch','$semester','$section','$yearofadm')";
$result="INSERT INTO studentlogin(logid,username,password,numbooks)
VALUES
('$libid','$username','$password','')";
if (!mysqli_query($connection,$sql))
{
die('Error1: ' . mysqli_error($connection));
}
else if (!mysqli_query($connection,$result))
{
die('Error2: ' . mysqli_error($connection));
}
else
```

```
mail($email,"registrationdetails","you are registered pls login with ur email id and
password","From: $admin\n");
echo"added 1 record";
mysqli_close($connection);
?>
<?php
require '../include/connection.php';
$result = mysqli_query($con,"SELECT * FROM student");
while($row = mysqli_fetch_array($result))
{
$libid=$row['libid'] ;
$regno= $row['regno'] ;
$name= $row['
$yearofadm= $row['yearofadm'];
$email=$row['email'];
$username= $row['username'];
$password= $row['password'];
}
$sql=mysqli_query($con,"DELETE FROM student WHERE libid='$libid'");
mysqli_close($con);
?>
?>
```

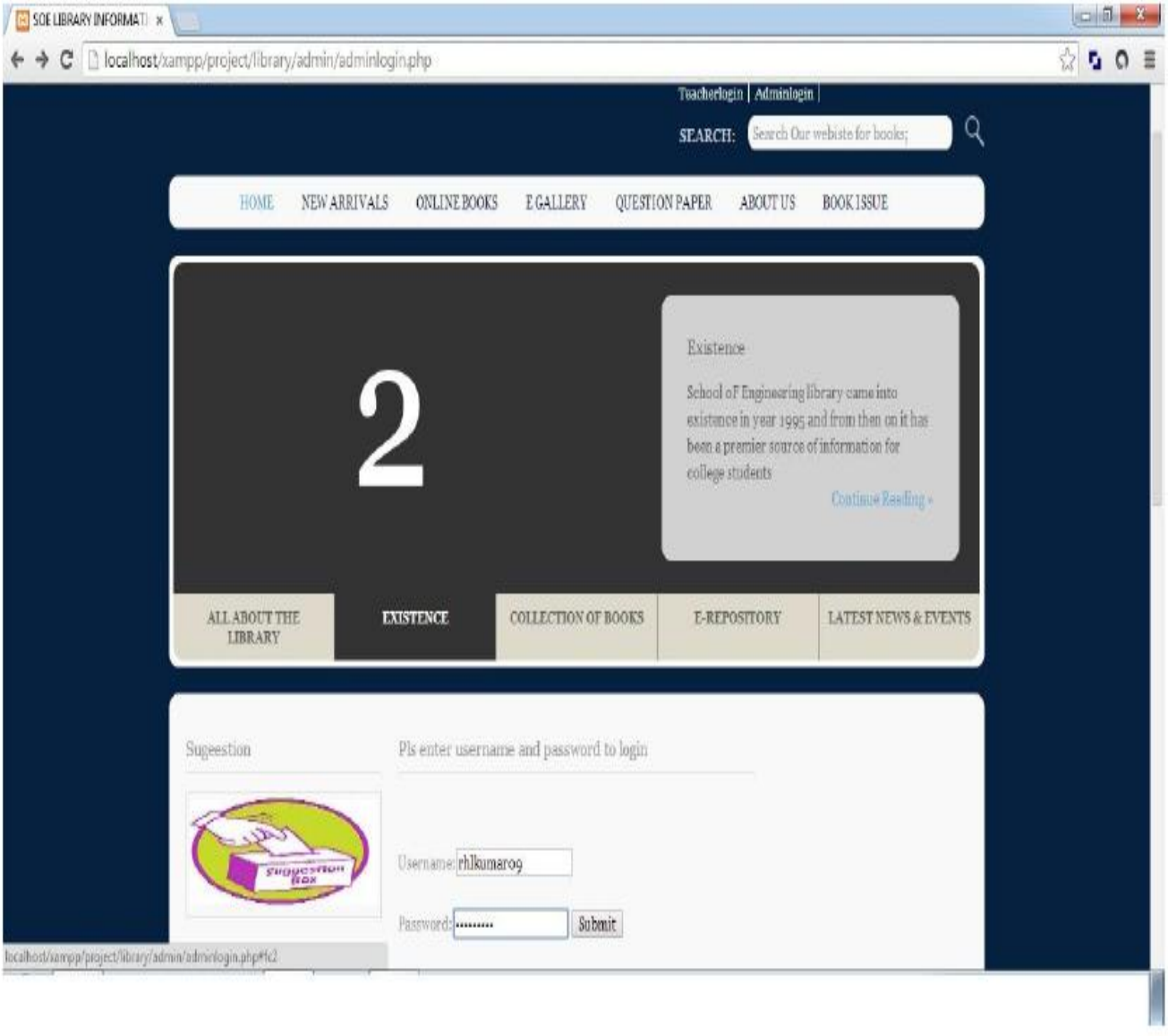
4.1.1.4 Code For teacher registration

```
<?php
$con=mysqli_connect("localhost","root","rahul#1991","library");
// Check connection
if (mysqli_connect_errno())
{
echo "Failed to connect to MySQL: " . mysqli_connect_error();
}
$loginid=$_POST['teacherid'];
$username=$_POST['username'];
$password=$_POST['password'];
$teachername=$_POST['teachername'];
$designation=$_POST['designation'];
$branch=$_POST['branch'];
$contactno=$_POST['contact'];
$lecture='';
$sql="INSERT INTO teacher (Tid, name, designation, branch, contactno,lectures)
VALUES
( $loginid,$teachername,$designation,$branch,$contactno,$lecture)";
$tql="INSERT INTO teacherlogin ($loginid,$username,$password)
VALUES
( $loginid,$username, $password)";
if (!mysqli_query($con,$sql))
{
echo "error";
}
if (!mysqli_query($con,$tql))
{
echo "error1";
}
echo "successs";
mysqli_close($con); Library Management System Division Of Computer Science And
Engineering Page 39
?>
```

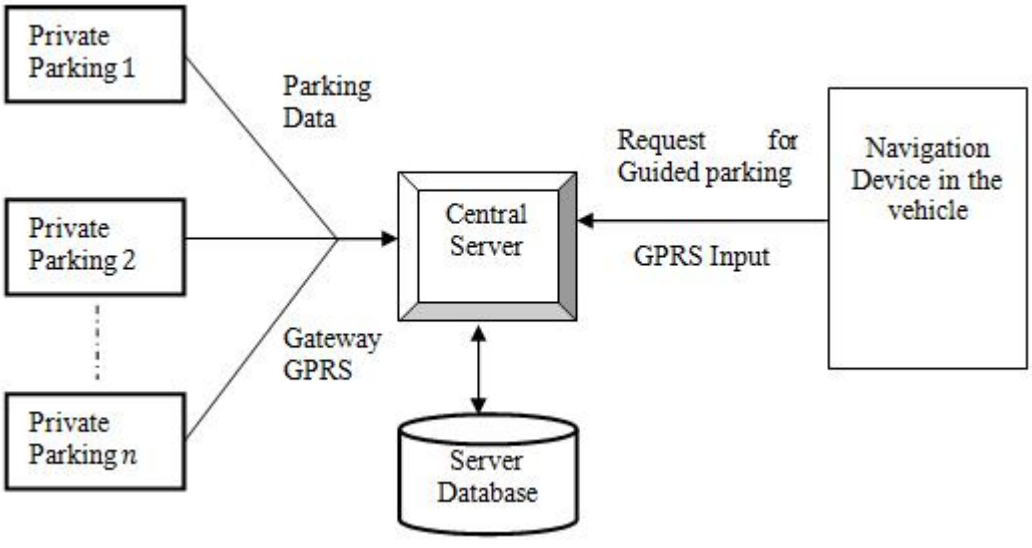
4.1.1.5Code for book addition

```
<?php
$con=mysqli_connect("localhost","root","","library");
// Check connection
if (mysqli_connect_errno())
{
echo "Failed to connect to MySQL: " . mysqli_connect_error();
}
$sql="INSERT INTO vehicle (code, vehiclename, model, vehiclenumber, modelnumber,
numberofvehicle)
VALUES
('$_POST[vehicleid]','$_POST[vehiclename]','$_POST[author]','$_POST[publication]','$_POST
[subject]','$_POST[numberofvehicles]')";
if (!mysqli_query($con,$sql))
{
echo "error";
}
echo "successs";
mysqli_close($con);
?>
<?php
$con=mysqli_connect("localhost","root","","admin");
// Check connection
if (mysqli_connect_errno())
{
echo "Failed to connect to MySQL: " . mysqli_connect_error();
}
$sql="INSERT INTO newarrivals (code, bookname, author, publication, subject,
numberofbooks,arrivaldate)
VALUES
('$_POST[vehicleid]','$_POST[vehiclename]','$_POST[author]','$_POST[modelname ]','$_POS
T[modelnumber]','$_POST[numberofvehicle]','$_POST[arrivaldate]')";
if (!mysqli_query($con,$sql))
{
echo "error";
}
echo "successs";
mysqli_close($con);
?>
```

4.1.1 Screenshot for Admin login



4.1.2 USER Module



The following module contains various facilities like user registration, User login, online book reservation, and event addition. Any user if at any moment forgets his password, he can retrieve it from forgot password option.

4.1.2.1Code For User account creation

```
<!DOCTYPE html>
<html xml:lang="EN" lang="EN" dir="ltr">
<head>
<title>SOE LIBRARY INFORMATION SYSTEM</title>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<meta http-equiv="imagetoolbar" content="no" />
<link rel="stylesheet" href="../styles/layout.css" type="text/css" />
<!-- Homepage Specific Elements -->
<script type="text/javascript" src="../scripts/jquery-1.4.1.min.js"></script>
<script type="text/javascript" src="../scripts/jquery-ui-1.7.2.custom.min.js"></script>
<script type="text/javascript" src="../scripts/jquery.tabs.setup.js"></script>
<!-- End Homepage Specific Elements -->
</head>
<body id="top">
<div class="wrapper row1">
<div id="header" class="clear">
<div class="fl_left">
<h1><a href="homepage.php">SOE Automated vehicles parking system</a></h1>
<p></p>
</div>
<div class="fl_right">
<ul>
<li><a
href="http://localhost/xampp/project/Parking/homepage.php">Home</a></li>
<li><a href="http://localhost/xampp/project/library/contact/Contactus.php">Contact
Us</a></li>
<li><a href="http://localhost/xampp/project/parking/egateway/egateway.php">E-
Gateway</a></li>
<li><a
href="http://localhost/xampp/project/library/Userlogin/studentlogin.php">User
Login</a></li>
<li ><a
href="http://localhost/xampp/project/library/userlogin/teacherlogin.php">Teacherlo
gin</a></li>
<li><a
href="http://localhost/xampp/project/library/admin/adminlogin.php">Adminlogin</
a></li>
</ul>
<form action="#" method="post" id="sitesearch">
```

```
<fieldset>
<strong>Search:</strong>
<input type="text" value="Search Our webiste for books;"
onfocus="this.value=(this.value=='Search Our website for vehicles;')? " :
this.value ;" />
<input type="image" src="../images/search.gif" id="search" alt="Search" />
</fieldset>
</form>
</div>
</div>
</div>
<!--
#######################################################################
#################################### -->
<div class="wrapper row2">
<div class="rnd">
<!-- ###### -->
<div id="topnav">
<ul>
<li class="active"><a href="homepage.php">Home</a></li>
<li><a href="newarrivals.php">New Arrivals</a></li>
<li><a href="onlinebooks.php">Online Books</a></li>
<li><a href="egallery.php">E Gallery</a></li>
<li><a href="questionpaper.php">Question Paper</a></li>
<li><a href="aboutus.php">About Us</a></li>
<li><a href="bookissue.php">Book Issue </a></li>
<li class="last"><a href="#"></a></li>
</ul>
</div>
<!-- ###### -->
</div>
</div>
<!--
#######################################################################
########################### -->
<div class="wrapper">
<div id="featured_slide" class="clear">
<!-- ###### -->
<div class="overlay_left"></div>
<div id="featured_content">
<div class="featured_box" id="fc1"><img src="../images/demo/slider/1.gif" alt="" />
<div class="floater">
```

```
<h2>All ABOUT SOE PARKING</h2>
<p>School oF Engineering Library or the S.O.E library is one of the finest Parking in kerela having a good collection of books related to various subjects</p>
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id= "fc2"><img src="../images/demo/slider/2.gif" alt="" />
<div class="floater">
<h2>Existence</h2>
<p>School oF Engineering parking came into existence in year 1995 and from then on it has been a premier source of information for college user</p>
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id="fc3"><img src="../images/demo/slider/3.gif" alt="" />
<div class="floater">
<h2>Collection</h2>
<p>School of Engineering Library has a collection of over 25000 books related to various subjects in engineering</p>
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id="fc4"><img src="../images/demo/slider/4.gif" alt="" />
<div class="floater">
<h2>E-Repository</h2>
<p>School oF Engineering parking has a collection of 6000 cds and 2800 online journals and also has a section where user upload their lectures notes and student can download them.</p>
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id="fc5"><img src="../images/demo/slider/5.gif" alt="" />
<div class="floater">
<h2>Latest News and events</h2>
<p></p>
<p class="readmore"><a href="#">Click here to go to latest news page;</a></p>
</div>
</div>
</div>
<ul id="featured_tabs">
<li><a href="#fc1">All About The Library</a></li>
<li><a href="#fc2">Existence</a></li>
<li><a href="#fc3">Collection of Books</a></li>
<li><a href="#fc4">E-Repository</a></li>
<li class="last"><a href="#fc5">Latest News &amp;amp; Events</a></li>
</ul>
```

```
<div class="overlay_right"></div>
<!-- ###### -->
</div>
</div>
<!--
################################################################################
############################ -->
<div class="wrapper row3">
<div class="rnd">
<div id="container" class="clear">
<!--
################################################################################
############################ -->
<div id="homepage" class="clear">
<!-- ###### -->
<div id="left_column">
<h2>Sugeestion</h2>
<div class="imgholder"><a href="#"><img src="../images/images/suggestions.jpg" alt=""
/></a></div>
<h2>Book request</h2>
<div class="imgholder"><a href="#"><img src="../images/images/bookrequest1.jpg" alt=""
/></a></div>
<h2>Account creation</h2>
<div class="imgholder"><a href="#"><img src="../images/images/account.jpg" alt=""
/></a></div>
<h2>Photos</h2>
<div class="imgholder"><a href="#"><img src="../images/images/photos.jpg" alt=""
/></a></div>
</div>
<!-- ###### -->
<div id="latestnews">
<h2>ENTER YOUR DETAILS</h2>
<p><span class="error">* required field.</span></p>
<table>
<form action="insertaccount.php" method="POST">
<legend>Student Information:</legend>
<tr>
<td>Library Id:</td> <td><input type="text" name="libid" size="30">
<span class="error">* </span><br><br></td>
</tr>
<tr>
<td>Registration No: </td> <td><input type="text" name="regno" size="30">
<span class="error">* </span><br><br></td>
</tr>
<tr>
```

```
<td>Name: </td> <td> <input type="text" name="stuname" size="30">
<span class="error">* </span><br><br></td>
</tr>
<tr>
<td>Branch: </td> <td> <select name="branch" size="1" tabindex="7">
<option selected="selected">Computer Science</option>
<option>Electronics & Communication</option>
<option>Electrical & Electronics</option>
<option>Mechanical</option>
<option>Safety & Fire</option>
<option>Civil</option>
<option>Information Technology</option>
</select>
<span class="error">* </span><br><br></td>
</tr>
<tr>
<td>Semester: </td> <td><select name="semester" size="1" tabindex="8">
<option selected="selected">1&2</option>
<option>3</option>
<option>4</option>
<option>5</option>
<option>6</option>
<option>7</option>
<option>8</option>
</select>
<span class="error">* </span><br><br></td>
</tr>
<tr>
<td>Section: </td> <td><select name="section" size="1" tabindex="2">
<option selected="selected">A</option>
<option>B</option>
</select>
<span class="error">* </span><br><br></td>
</tr>
<tr>
<td>Year of adm:</td> <td> <input type="text"name="yearofadm" size="30">
<span class="error">* </span><br><br></td>
</tr>
<tr>
<td>Email:</td> <td> <input type="email"name="email" size="30">
<span class="error">* </span><br><br></td>
</tr>
<tr>
<td>Username:</td> <td> <input type="text"name="username" size="30">
<span class="error">* </span><br><br></td>
```

```
</tr>
<tr>
<td>Password:</td> <td> <input type="password"name="password" size="30">
<span class="error">* </span><br><br></td>
</tr>
<tr>
<td><p>Click the submit</p></td>
</tr>
<tr>
<td height="40"><input type="submit" name= "submit" value="submit" action=
"insertaccount.php"></td>
</tr>
</form>
</table>

</div>
<!-- ###### -->
<!-- ###### -->
</div>
<!--
############################################################################################
############################ -->
<!--
############################################################################################
############################ -->
<div id="academiclinks" class="clear">
<h2>Quickly Find What You Are Looking For</h2>
<div class="linkbox">
<ul>
<li><a href="http://localhost/xampp/project/library/homepage.php">&raquo; Home</a></li>
<li><a href="http://localhost/xampp/project/library/studentlogin/studentlogin.php">&raquo;
Student Login</a></li>
<li><a href="http://localhost/xampp/project/library/teacherlogin/teacherlogin.php">&raquo;
Teacher Login</a></li>
<li><a href="http://localhost/xampp/project/library/adminlogin/adminlogin.php">&raquo;
Adminlogin</a></li>
<li><a href="http://localhost/xampp/project/library/newarrivals/newarrivals.php">&raquo; New
Arrivals</a></li>
<li><a href="http://localhost/xampp/project/library/onlinebooks/onlinebooks">&raquo; Online
Books</a></li>
<li><a href="http://localhost/xampp/project/library/egallery/egallery.php">&raquo; E-
Gallery</a></li>
<li><a href="http://localhost/xampp/project/library/aboutus/aboutus.php">&raquo; About
Us</a></li>
```

```
<li><a href="http://localhost/xampp/project/library/contactus/contactus.php">&raquo; Contact Us</a></li>
<li><a href="http://localhost/xampp/project/library/questionpaper/questionpaper.php">&raquo; Question Papers</a></li>
<li><a href="http://localhost/xampp/project/library/latestnews/latestnews.php">&raquo; Latest Events & News</a></li>
</ul>
</div>
<!--
############################################################################################################################ -->
</div>
</div>
</div>
<!--
############################################################################################################################ -->
<!--
############################################################################################################################ -->
<div class="wrapper">
<div id="copyright" class="clear">
<p class="fl_left">Copyright &copy; 2013 - All Rights Reserved for SOE LIBRARY-</p>
</div>
</div>
</body>
</html>
<?php
// define variables and set to empty values
$libidErr = $regnoErr = $stunameErr = $branchErr = $semesterErr = $sectionErr = $yearofadmErr = $usernameErr = $passwordErr = "";
$libid = $regno = $stuname = $branch = $semester = $section = $yearofadm = $username = $password = "";
if ($_SERVER["REQUEST_METHOD"] == "POST")
{
if (empty($_POST["libid"]))
{$libidErr = "libid is required";
echo $libidErr;
include("createaccount.php");
}
else
{$section = test_input($_POST["section"]);}

if (empty($_POST["yearofadm"]))
{$yearofadmErr = "year of adm. is required";
```

```
echo $yearofadmErr;
include("createaccount.php");
}
else
{$yearofadm = test_input($_POST["yearofadm"]);
}
if (empty($_POST["username"]))
{$usernameErr = "username is required";
echo $usernameErr;
include("createaccount.php");
}
else
{$username = test_input($_POST["username"]);
}
if (empty($_POST["password"]))
{$passwordErr = "password is required";
echo $passwordErr;
include("createaccount.php");
}
else
{$password = test_input($_POST["password"]);}
}
function test_input($data)
{
$data = trim($data);
$data = stripslashes($data);
$data =
htmlspecialchars($data);
return $data
```

```
{
?>
<?php
$con=mysqli_connect("localhost","root","","admin");
// Check connection
if (mysqli_connect_errno())
{
echo "Failed to connect to MySQL: " . mysqli_connect_error();
}
$sql="INSERT INTO
student(libid,regno,stuname,branch,semester,section,yearofadm,email,username,
password)
VALUES
('$_POST[libid]','$_POST[regno]','$_POST[stuname]','$_POST[branch]','$_PO
ST[semester]','$_POST[section]','$_POST[yearofadm]','$_POST[email]','$_PO
ST[username]','$_POST[password]')";
if (!mysqli_query($con,$sql))
{
die('Error: ' . mysqli_error($con));
}
echo "wait for conformation";
mysqli_close($con);
?>
```

4.1.2.2 Code For User login check

```
<?php
//Start session
session_start();
//Unset the variables stored in session
unset($_SESSION['SESS_username']);
unset($_SESSION['SESS_password']);
?>
<!DOCTYPE html>
<html xml:lang="EN" lang="EN" dir="ltr">
<head>
<title>SOE AUTOMATED MATED VEHICLES PARKING SYSTEM</title>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<meta http-equiv="imagetoolbar" content="no" />
<link rel="stylesheet" href="../styles/layout.css" type="text/css" />
<!-- Homepage Specific Elements -->
<script type="text/javascript" src="../scripts/jquery-1.4.1.min.js"></script>
<script type="text/javascript" src="../scripts/jquery-ui-
1.7.2.custom.min.js"></script>
<script type="text/javascript" src="../scripts/jquery.tabs.setup.js"></script>
<!-- End Homepage Specific Elements -->
</head>
<body id="top">
<div class="wrapper row1">
<div id="header" class="clear">
<div class="fl_left">
<h1><a href="homepage.php">SOE AUTOMATED VEHICLES PARKING
SYSTEM</a></h1>
<p></p>
</div>
<div class="fl_right">
<ul>
<li><a
href="http://localhost/xampp/project/library/homepage.php">Home</a></li>
<li><a
href="http://localhost/xampp/project/library/contact/Contactus.php">Contact
Us</a></li>
<li><a
href="http://localhost/xampp/project/library/egateway/egateway.php">E-
Gateway</a></li>
```

```
<li><a
href="http://localhost/xampp/project/library/Userlogin/studentlogin.php">Stude
nt Login</a></li>
<li ><a href="Loginlogin.php">Teacherlogin</a></li>
<li><a
href="http://localhost/xampp/project/library/admin/adminlogin.php">Adminlog
in</a></li>
</ul>
<form action="#" method="post" id="sitesearch">
<fieldset>
<strong>Search:</strong>
<input type="text" value="Search Our webiste for books;"
onfocus="this.value=(this.value=='Search Our website for books;')? " :
this.value ;" />
<input type="image" src="../images/search.gif" id="search" alt="Search" />
</fieldset>
</form>
</div>
</div>
</div>
<!--
###################################################################
######################################### -->
<div class="wrapper row2">
<div class="rnd">
<!-- ###### -->
<div id="topnav">
<ul>
<li class="active"><a
href="http://localhost/xampp/project/library/homepage.php">Home</a></li>
<li><a href="http://localhost/xampp/project/library/newarrivals.php">New
Arrivals</a></li>
<h2>Collection</h2>
<p>School of Engineering PARKING has a collection of over 25000 books
related to various subjects in engineering</p>
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id="fc4"><img src="../images/demo/slider/4.gif"
alt="" />
<div class="floater">
<h2>E-Repository</h2>
```

School oF Engineering Parking has a collection of 6000 cds and 2800 online journals and also has a section where User upload their lectures notes and student can download them.
Continue Reading »

<h2>Latest News and events</h2>

Click here to go to latest news page;

<ul id="featured_tabs">
All About The Library
Existence
Collection of Books
E-Repository
<li class="last">Latest News & Events

<!-- ###### -->

<!--
##
-->

<!--
##
-->

<!-- ###### -->

<h2>Sugeestion</h2>

<h2>Book request</h2>

```
<div class="imgholder"><a href="#"><img
src="../images/images/bookrequest1.jpg" alt="" /></a></div>
<h2>Account creation</h2>
<div class="imgholder"><a href="#"><img src="../images/images/account.jpg"
alt="" /></a></div>
<h2>Photos</h2>
<div class="imgholder"><a href="#"><img src="../images/images/photos.jpg"
alt="" /></a></div>
</div>
<!-- ###### -->
<div id="latestnews">
<h2>Pls enter username and password to login</h2>
<table>
<form action="checklogin.php" method="post"><br><br>
Username:<input name="username" type="text" maxlength="12"><br><br>
Password:<input name="password" type="password" maxlength="12">
<input name="submit" type="submit">
</form>
</table>
</div>
<!-- ###### -->
<!-- ###### -->
</div>
<!--
########################################################################
######################################### -->
<!--
########################################################################
######################################### -->
<div id="academiclinks" class="clear">
<h2>Quickly Find What You Are Looking For</h2>
<div class="linkbox">
<ul>
<li><a href="http://localhost/xampp/project/library/homepage.php">&raquo;
Home</a></li>
<li><a href="http://localhost/xampp/project/library/studentlogin.php">&raquo;
Student Login</a></li>
<li><a href="teacherlogin.php">&raquo; admin Login</a></li>
<li><a href="http://localhost/xampp/project/library/adminlogin.php">&raquo;
Adminlogin</a></li>
<li><a href="http://localhost/xampp/project/library/newarrival.php">&raquo;
New Arrivals</a></li>
```

```
<li><a href="http://localhost/xampp/project/Parking/onlinebooks.php">&raquo; Online Books</a></li>
<li><a href="http://localhost/xampp/project/parking/egallery.php">&raquo; E-Gallery</a></li>
<li><a href="http://localhost/xampp/project/Parking/aboutus.php">&raquo; About Us</a></li>
<li><a href="http://localhost/xampp/project/Parkign /contactus.php">&raquo; Contact Us</a></li>
<li><a href="http://localhost/xampp/project/Parking/questionpaper.php">&raquo; Question Papers</a></li>
<li><a href="http://localhost/xampp/project/Parking/latestnews.php">&raquo; Latest Events & News</a></li>
</ul>
</div>
<!--
########################################################################
######################################### -->
</div>
</div>
</div>
<!--
########################################################################
######################################### -->
<!--
########################################################################
######################################### -->
<div class="wrapper">
<div id="copyright" class="clear">
<p class="fl_left">Copyright &copy; 2014 - All Rights Reserved for SOE LIBRARY-</p>
</div>
</div>
</body>
</html>
<?php
session_start();
$host="localhost"; // Host name
$username="root"; // Mysql username
$password=""; // Mysql password
$db_name="library"; // Database name
$tbl_name="studentlogin"; // Table name
// Connect to server and select databse.
mysql_connect("$host", "$username", "$password")or die("cannot connect");
```

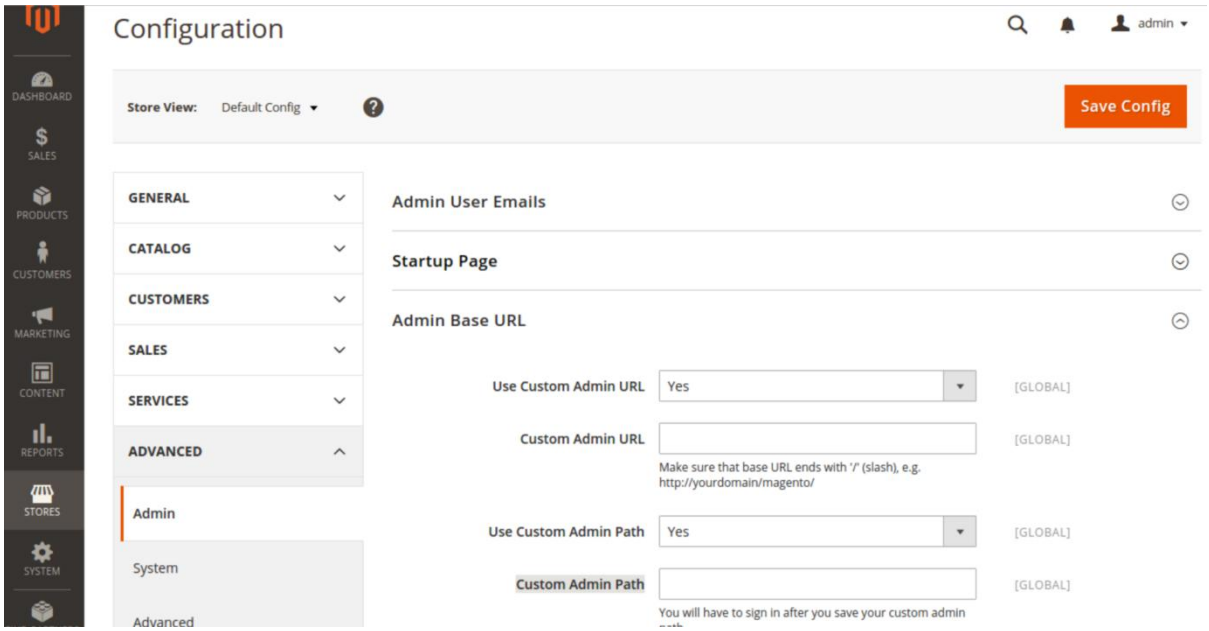
```
mysql_select_db("$db_name")or die("cannot select DB");
// username and password sent from form
$myusername=$_POST['username'];
$mypassword=$_POST['password'];
$sql="SELECT * FROM $tbl_name WHERE username='$myusername' and
password='$mypassword'";
$result=mysql_query($sql);
// Mysql_num_row is counting table row
$count=mysql_num_rows($result);
// If result matched $myusername and $mypassword, table row must be 1 row
if($count>0)
{ session_regenerate_id();
$member = mysql_fetch_assoc($result);
$_SESSION['SESS_username'] = $member['username'];
$_SESSION['SESS_password'] = $member['password'];
session_write_close();
header("location:studentlogin1.php");
exit();
}else {
//Login failed
$errmsg_arr[] = 'user name and password not found';
$errflag = true;
if($errflag) {
$_SESSION['ERRMSG_ARR'] = $errmsg_arr;
session_write_close();
header("location: studentlogin.php");
exit();
}
}
?>
```

4.1.2.3 Code For Event Addition

```
<?php
$con=mysqli_connect("localhost","root","","admin");
// Check connection
if (mysqli_connect_errno())
{
echo "Failed to connect to MySQL: " . mysqli_connect_error();
}
$sql="INSERT INTO event(Name,date,time,venue,mname,contactno,email)
VALUES
('$_POST[ename]','$_POST[date]','$_POST[time]','$_POST[venue]','$_POST[n
ame]','$_POST[phno]','$_POST[email]')";
if (!mysqli_query($con,$sql))
{
die('Error: ' . mysqli_error($con));
}
echo "wait for conformation";
mysqli_close($con);
?>
```

4.1.2 Screenshot for user login

4.1.3 Admin Module



The following module contains various facilities like User login, suggestions, and event addition. Further Admin if at any moment forgets his/her password he/she can retrieve it from ‘forgot password’ option.

4.1.3.1 Code For Admin Login

```
<?php
session_start();
$host="localhost"; // Host name
$username="root"; // Mysql username
$password=""; // Mysql password
$db_name="library"; // Database name
$tbl_name="teacherlogin"; // Table name
// Connect to server and select databse.
mysql_connect("$host", "$username", "$password")or die("cannot connect");
mysql_select_db("$db_name")or die("cannot select DB");
// username and password sent from form
$myusername=$_POST['username'];
$mypassword=$_POST['password'];
$sql="SELECT * FROM $tbl_name WHERE username='$myusername' and
password='$mypassword'";
$result=mysql_query($sql);
// Mysql_num_row is counting table row
$count=mysql_num_rows($result);
// If result matched $myusername and $mypassword, table row must be 1 row
if($count>0)
{ session_regenerate_id();
$member = mysql_fetch_assoc($result);
$_SESSION['SESS_username'] = $member['username'];
$_SESSION['SESS_password'] = $member['password'];
session_write_close();
header("location:adminlogin1.php");
exit();
}else {
//Login failed
$errmsg_arr[] = 'user name and password not found';
$errflag = true;
if($errflag) {
$_SESSION['ERRMSG_ARR'] = $errmsg_arr;
session_write_close();
header("location: teacherlogin.php");
exit();
}
}
?>
```

4.1.3.2 Code for Suggestion

```
<?php
session_start();
?>
<!DOCTYPE html>
<html xml:lang="EN" lang="EN" dir="ltr">
<head>
<title>SOE AUTOMATED VEHICLES PARKING SYSTEM </title>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<meta http-equiv="imagetoolbar" content="no" />
<link rel="stylesheet" href="../styles/layout.css" type="text/css" />
<!-- Homepage Specific Elements -->
<script type="text/javascript" src="../scripts/jquery-1.4.1.min.js"></script>
<script type="text/javascript" src="../scripts/jquery-ui-
1.7.2.custom.min.js"></script>
<script type="text/javascript" src="../scripts/jquery.tabs.setup.js"></script>
<!-- End Homepage Specific Elements -->
</head>
<body id="top">
<div class="wrapper row1">
<div id="header" class="clear">
<div class="fl_left">
<h1><a href="homepage.php">AUROMAED VEHICLES PARKING
SYSTEM</a></h1>
<p></p>
</div>
<div class="fl_right">
<ul>
<li><a
href="http://localhost/xampp/project/library/homepage.php">Home</a></li>
<li><a
href="http://localhost/xampp/project/library/contact/Contactus.php">Contact
Us</a></li>
<li><a
href="http://localhost/xampp/project/library/egateway/egateway.php">E-
Gateway</a></li>
<li><a
href="http://localhost/xampp/project/library/studentlogin/studentlogin.php">Stu
dent Login</a></li>
<li ><a href="teacherlogin.php">Teacherlogin</a></li>
```

```
<li><a
href="http://localhost/xampp/project/Parking/admin/adminlogin.php">Adminlo
gin</a></li>
</ul>
<form action="#" method="post" id="sitesearch">
<fieldset>
<strong>Search:</strong>
<input type="text" value="Search Our webiste for books;"
onfocus="this.value=(this.value=='Search Our website for books;')? " :
this.value ;" />
<input type="image" src="../images/search.gif" id="search" alt="Search" />
</fieldset>
</form>
</div>
</div>
</div>
<!--
################################################################################
########################################## -->
<div class="wrapper row2">
<div class="rnd">

<!-- ###### -->
<div id="topnav">
<ul>
<li class="active"><a
href="http://localhost/xampp/project/library/homepage.php">Home</a></li>
<li><a href="http://localhost/xampp/project/library/newarrivals.php">New
Arrivals</a></li>
<li><a href="http://localhost/xampp/project/library/onlinebooks.php">Online
Books</a></li>
<li><a href="http://localhost/xampp/project/library/egallery.php">E
Gallery</a></li>
<li><a
href="http://localhost/xampp/project/library/questionpaper.php">Question
Paper</a></li>
<li><a href="http://localhost/xampp/project/library/aboutus.php">About
Us</a></li>
<li><a href="http://localhost/xampp/project/library/bookissue.php">Book Issue
</a></li>
<li class="last"><a href="#"></a></li>
</ul>
</div>
```

```
<!-- ###### -->
</div>
</div>
<!--
########################################################################
######################################### -->
<div class="wrapper">
<div id="featured_slide" class="clear">
<!-- ###### -->
<div class="overlay_left"></div>
<div id="featured_content">
<div class="featured_box" id="fc1"><img src="../images/demo/slider/1.gif"
alt="" />
<div class="floater">
<h2>All ABOUT SOE LIBRARY</h2>
<p>School oF Engineering Library or the S.O.E library is one of the finest
library in kerela having a good collection of books related to various
subjects</p>
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id= "fc2"><img src="../images/demo/slider/2.gif"
alt="" />
<div class="floater">
<h2>Existence</h2>
<p>School oF Automated Parking  came into existence in year 1995 and from
then on it has been a premier source of information for college students</p>
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id="fc3"><img src="../images/demo/slider/3.gif"
alt="" />
<div class="floater">
<h2>Collection</h2>
<p>School of Engineering Parking has a collection of over 25000 books related
to various subjects in engineering</p>
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id="fc4"><img src="../images/demo/slider/4.gif"
alt="" />
<div class="floater">
<h2>E-Repository</h2>
```

```
<p>School oF Automated vehicles parking system has a collection of 6000 cds
and 2800 online journals and also has a section where teachers upload their
lectures notes and user can download them.</p>
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id="fc5"><img src="../images/demo/slider/5.gif"
alt="" />
<div class="floater">
<h2>Latest News and events</h2>
<p></p>
<p class="readmore"><a href="#">Click here to go to latest news
page;</a></p>
</div>
</div>
</div>
<ul id="featured_tabs">
<li><a href="#fc1">All About The Library</a></li>
<li><a href="#fc2">Existence</a></li>
<li><a href="#fc3">Collection of Books</a></li>
<li><a href="#fc4">E-Repository</a></li>
<li class="last"><a href="#fc5">Latest News &amp; Events</a></li>
</ul>
<div class="overlay_right"></div>
<!-- ###### -->
</div>
</div>
<!--
#################################################################
######################################## -->
<div class="wrapper row3">
<div class="rnd">
<div id="container" class="clear">
<!--
#################################################################
######################################## -->
<div id="homepage" class="clear">
<!-- ###### -->
<div id="left_column">
<h2>Sugeestion</h2>
<div class="imgholder"><a href="#"><img
src="../images/images/suggestions.jpg" alt="" /></a></div>
<h2>Book request</h2>
```

```
<div class="imgholder"><a href="#"><img
src="../images/images/bookrequest1.jpg" alt="" /></a></div>
<h2>Account creation</h2>
<div class="imgholder"><a href="#"><img src="../images/images/account.jpg"
alt="" /></a></div>
<h2>Photos</h2>
<div class="imgholder"><a href="#"><img src="../images/images/photos.jpg"
alt="" /></a></div>
</div>
<!-- ###### -->
<div id="latestnews">
<h2>Pls enter sugeestion in less than 255 characters</h2>
<table border=1>
<form action="suggestion.php" method="post">
<tr>
<td>SUGGESTION</td><td><textarea name="suggestion" rows="5"
cols="50"></textarea><br></br></td>
</tr>
<tr>
<td><input type="submit" value="submit"name="submit"><br></br></td>
</tr>
</form>
</table>
<
</div>
<!-- ###### -->
<!-- ###### -->
</div>
</div>
<!--
########################################################################
######################################### -->
<!--
########################################################################
######################################### -->
<div id="academiclinks" class="clear">
<h2>Quickly Find What You Are Looking For</h2>
<div class="linkbox">
<ul>
<li><a href="http://localhost/xampp/project/library/homepage.php">&raquo;
Home</a></li>
<li><a href="http://localhost/xampp/project/library/studentlogin.php">&raquo;
Student Login</a></li>
```

```
<li><a href="adminlogin.php">&raquo; Teacher Login</a></li>
<li><a href="http://localhost/xampp/project/library/adminlogin.php">&raquo;
Adminlogin</a></li>
<li><a href="http://localhost/xampp/project/library/newarrival.php">&raquo;
New Arrivals</a></li>
<li><a href="http://localhost/xampp/project/library/onlinebooks.php">&raquo;
Online Books</a></li>
<li><a href="http://localhost/xampp/project/library/egallery.php">&raquo; E-
Gallery</a></li>
<li><a href="http://localhost/xampp/project/library/aboutus.php">&raquo;
About Us</a></li>
<li><a href="http://localhost/xampp/project/library/contactus.php">&raquo;
Contact Us</a></li>
<li><a href="http://localhost/xampp/project/library/questionpaper.php">&raquo;
Question Papers</a></li>
<li><a href="http://localhost/xampp/project/library/latestnews.php">&raquo;
Latest Events & News</a></li>
</ul>
</div>
<!--
########################################################################
######################################### -->
</div>
</div>
</div>
<########################################################################
######################################### -->
<!--
########################################################################
######################################### -->
<div class="wrapper">
<div id="copyright" class="clear">
<p class="fl_left">Copyright &copy; 2014 - All Rights Reserved for SOE
LIBRARY-</p>
</div>
</div>
</body>
</html>
<?php
session_start();
require '../include/connection1.php';
```

```
$sql = mysqli_query($connection,"SELECT * FROM uaerlogin where
username='$_SESSION[SESS_username]'&&
password='$_SESSION[SESS_password]'");
$rocount=mysqli_num_rows($sql);
if($rocount==1)
{
while($row = mysqli_fetch_array($sql))
{
$logid=$row['logid'];
$username= $row['username'] ;
$password= $row['password'] ;
$numbooks= $row['numbooks'];
}
}
$result = mysqli_query($connection,"SELECT * FROM student where
libid='$logid'");
$rowcount=mysqli_num_rows($result);
if($rowcount==1)
{
while($row = mysqli_fetch_array($result))
{
$libid=$row['libid'];
$regno= $row['regno'] ;
$stuname= $row['stuname'] ;
$branch= $row['branch'] ;
$semester= $row['semester'] ;
$section= $row['section'] ;
$yearofadm= $row['yearofadm'] ;
}
}
mysqli_close($connection);
?>
<?php
require'../include/connection.php';
$sql="INSERT INTO suggest ( libid,suggestion)
VALUES
('$libid','$_POST[suggestion]')";
if (!mysqli_query($con,$sql))
{
echo "error";
}
echo "successs";
mysqli_close($con);
```

?>

4.1.3 Screenshot for Admin login

4.1.4.1 Code For parking New vehicles

```
<?php
$con=mysqli_connect("localhost","root","","parking");
// Check connection
if (mysqli_connect_errno())
{
echo "Failed to connect to MySQL: " . mysqli_connect_error();
}
$sql="INSERT INTO parking (code, vehicles name, number, publication,
Model, number of plates)
VALUES
('$_POST[vehiclesid]','$_POST[bookname]','$_POST[author]','$_POST[publica
tion]','$_POST[subject]','$_POST[numberofvehicles]')";
if (!mysqli_query($con,$sql))
{
echo "error";
}
echo "successs";
mysqli_close($con);
?>
<?php
$con=mysqli_connect("localhost","root","","admin");
// Check connection
if (mysqli_connect_errno())
{
echo "Failed to connect to MySQL: " . mysqli_connect_error();
}
$sql="INSERT INTO newarrivals (code, bookname, author, publication, subject,
numberofbooks,arrivaldate)
VALUES
('$_POST[vehiclesid]','$_POST[vehiclesname]','$_POST[author]','$_POST[pub
lication]','$_POST[subject]','$_POST[numberofvehicles]','$_POST[arrivaldate]')
";
if (!mysqli_query($con,$sql))
{
echo "error";
}
echo "successs";
mysqli_close($con);
?>
```

4.1.4.2 Code For vehicles Search

```
<!DOCTYPE html>
<html xml:lang="EN" lang="EN" dir="ltr">
<head>
<title>SOE AUROMATED VEHICLES PARKING SYSTEM</title>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<meta http-equiv="imagetoolbar" content="no" />
<link rel="stylesheet" href="../styles/layout.css" type="text/css" />
<!-- Homepage Specific Elements -->
<script type="text/javascript" src="../scripts/jquery-1.4.1.min.js"></script>
<script type="text/javascript" src="../scripts/jquery-ui-
1.7.2.custom.min.js"></script>
<script type="text/javascript" src="../scripts/jquery.tabs.setup.js"></script>
<!-- End Homepage Specific Elements -->
</head>
<body id="top">
<div class="wrapper row1">
<div id="header" class="clear">
<div class="fl_left">
<h1><a href="homepage.php">SOE AUTOMATED VEHICLES PARKING
SYSTEM</a></h1>

<p></p>
</div>
<div class="fl_right">
<ul>
<li><a href="homepage.php">Home</a></li>
<li><a
href="http://localhost/xampp/project/library/contact/Contactus.php">Contact
Us</a></li>
<li><a
href="http://localhost/xampp/project/library/egateway/egateway.php">E-
Gateway</a></li>
<li><a
href="http://localhost/xampp/project/library/Userlogin/userlogin.php">Student
Login</a></li>
<li ><a
href="http://localhost/xampp/project/library/Adminlogin/adminlogin.php">Teac
herlogin</a></li>
<li><a
href="http://localhost/xampp/project/library/admin/adminlogin.php">Adminlog
in</a></li>
```

```
</ul>
<form action="#" method="post" id="sitesearch">
<fieldset>
<strong>Search:</strong>
<input type="text" value="Search Our webiste for vehicle;"
onfocus="this.value=(this.value=='Search Our website for vehicles;')? " :
this.value ;" />
<input type="image" src="images/search.gif" id="search" alt="Search" />
</fieldset>
</form>
</div>
</div>
</div>
<!--
########################################################################
######################################### -->
<div class="wrapper row2">
<div class="rnd">
<!-- ###### -->
<div id="topnav">
<ul>
<li class="active"><a href="homepage.php">Home</a></li>
<li><a
href="http://localhost/xampp/project/library/newarrivals/newarrivals.php">New
Arrivals</a></li>
<li><a
href="http://localhost/xampp/project/library/onlinebooks/onlinebooks.php">Onl
ine Books</a></li>
<li><a href="http://localhost/xampp/project/library/egallery/egallery.php">E
Gallery</a></li>
<li><a
href="http://localhost/xampp/project/library/questionpaper/questionpaper.php">
Question Paper</a></li>
<li><a
href="http://localhost/xampp/project/library/aboutus/aboutus.php">About
Us</a></li>
<li><a
href="http://localhost/xampp/project/library/abouts/bookissue.php">Book Issue
</a></li>
<li class="last"><a href="#"></a></li>
</ul>
</div>
<!-- ###### -->
```

```
</div>
</div>
<!--
########################################################################
######################################### -->
<div class="wrapper">
<div id="featured_slide" class="clear">
<!-- ###### -->
<div class="overlay_left"></div>
<div id="featured_content">
<div class="featured_box" id="fc1"><img src="../images/demo/slider/12.gif"
alt="" />
<div class="floater">
<h2>All ABOUT SOE LIBRARY</h2>
<p>School oF Engineering Library or the S.O.E library is one of the finest
library in kerela having a good collection of books related to various
subjects</p>
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id= "fc2"><img src="../images/demo/slider/21.gif"
alt="" />
<div class="floater">
<h2>Existence</h2>
<p>School oF Engineering library came into existence in year 1995 and from
then on it has been a premier source of information for college students</p>
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id="fc3"><img src="../images/demo/slider/31.gif"
alt="" />
<div class="floater">
<h2>Collection</h2>
<p>School of Engineering Library has a collection of over 25000 books related
to various subjects in engineering</p>
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id="fc4"><img src="../images/demo/slider/41.gif"
alt="" />
<div class="floater">
<h2>E-Repository</h2>
```

```
<p>School oF Automated vehicles parking system has a collection of 6000 cds
and 2800 online journals and also has a section where teachers upload their
lectures notes and student can download them.</p>
<p class="readmore"><a href="#">Continue Reading &raquo;</a></p>
</div>
</div>
<div class="featured_box" id="fc5"><img src="../images/demo/slider/51.gif"
alt="" />
<div class="floater">
<h2>Latest News and events</h2>
<p></p>
<p class="readmore"><a href="#">Click here to go to latest news
page;</a></p>
</div>
</div>
</div>
<ul id="featured_tabs">
<li><a href="#fc1">All About The Library</a></li>
<li><a href="#fc2">Existence</a></li>
<li><a href="#fc3">Collection of Books</a></li>
<li><a href="#fc4">E-Repository</a></li>
<li class="last"><a href="#fc5">Latest News &amp; Events</a></li>
</ul>
<div parking ="overlay_right"></div>
<!-- ###### -->
</div>
</div>
<!--
#################################################################
######################################## -->
<div class="wrapper row3">
<div class="rnd">
<div id="container" class="clear">
<!--
#################################################################
######################################## -->
<div id="homepage" class="clear">
<!-- ###### -->
<div id="left_column">
<h2>Sugeestion</h2>
<div class="imgholder"><a href="#"><img
src="../images/images/suggestions.jpg" alt="" /></a></div>
<h2>Book request</h2>
```

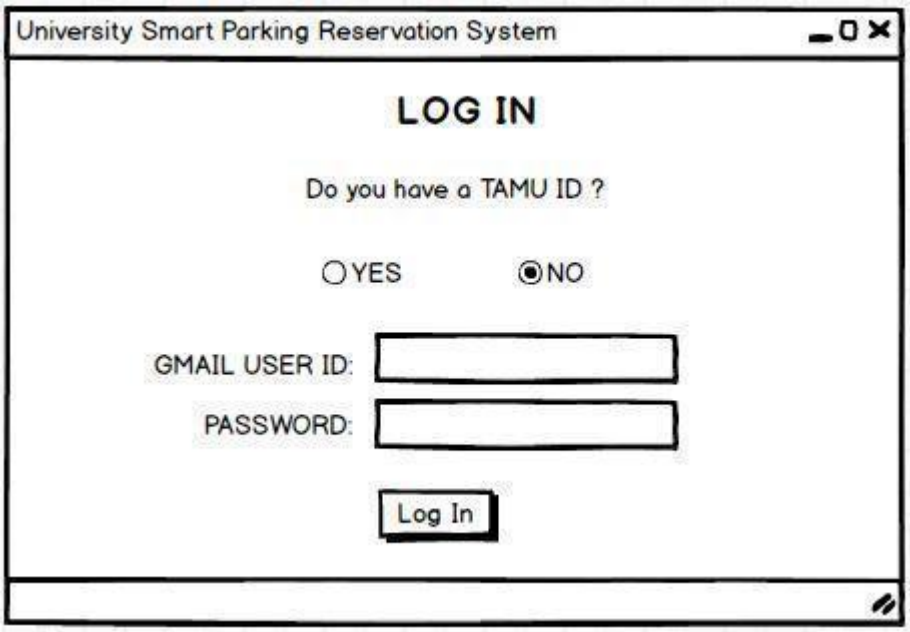
```
<div class="imgholder"><a href="#"><img
src="../images/images/bookrequest1.jpg" alt="" /></a></div>
<h2>Account creation</h2>
<div class="imgholder"><a
href="http://localhost/xampp/project/library/create/createaccount.php"><img
src="../images/images/account.jpg" alt="" /></a></div>
<h2>Photos</h2>
<div class="imgholder"><a href="#"><img src="../images/images/photos.jpg"
alt="" /></a></div>
</div>
<!-- ###### -->
<div id="latestnews">
<h2>ENTER VEHICLES DETAILS</h2>
<table>
<form action="advancesearchresult.php" method="POST">
<legend>VEHICLES Information:</legend>
<tr>
<td>Book Code:</td> <td><input type="text" name="vehiclescode"
size="30"><br><br></td>
</tr>
<tr>
<td>vehicles Name: </td> <td><input type="text" name="vehiclesname"
size="30"><br><br></td>
</tr>
<tr>
<td>number: </td> <td> <input type="text" name="number"
size="30"><br><br></td>
</tr>
<tr>
<td>model name: </td> <td> <input type="text"name="modelname"
size="30"><br><br></td>
</tr>
<tr>
<td><p>Click the submit</p></td>
</tr>
<tr>
<td height="40"><input type="submit" name= "submit" value="submit"
action= "insertaccount.php"></td>
</tr>
</form>
</table>
<p class="readmore"><a href="#"></a></p>
</div>
```

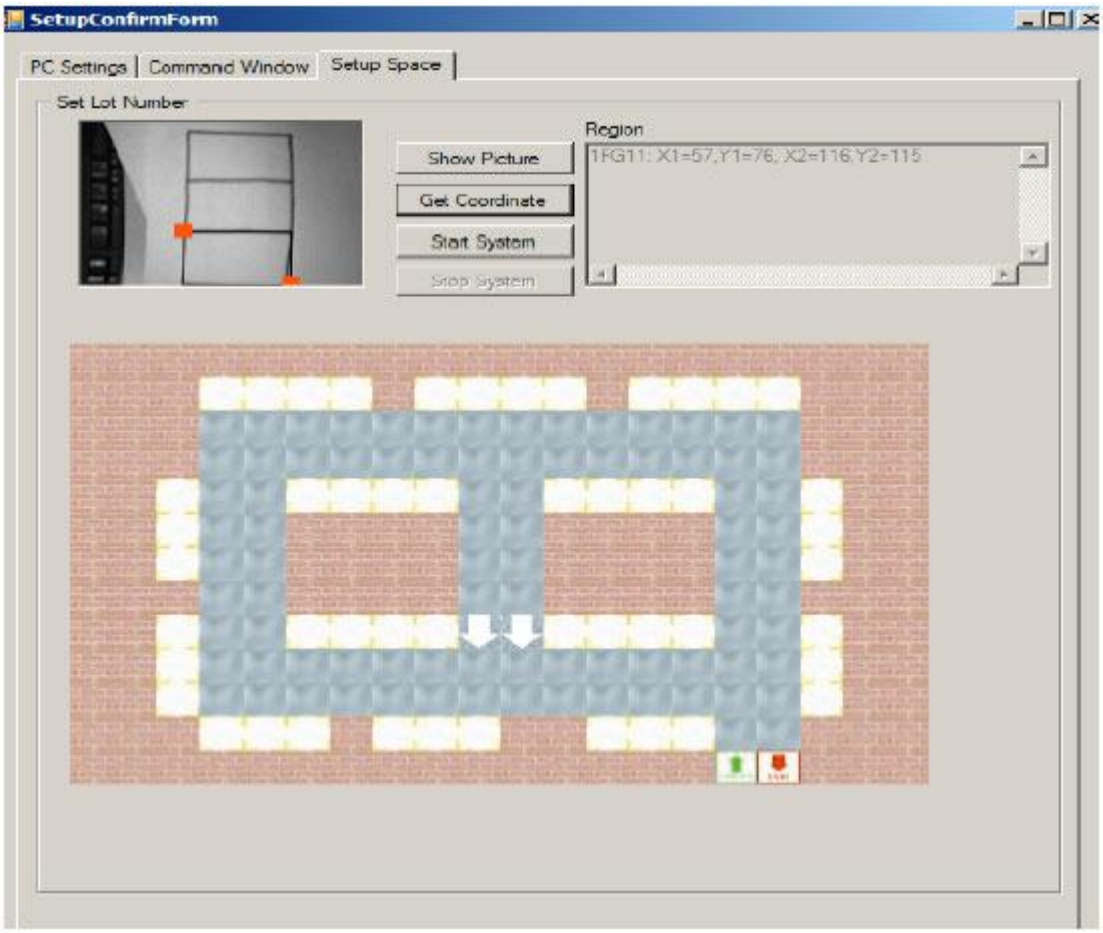
```
<!-- ###### -->
</div>
<!-- ###### -->
</div>
<!--
########################################################################
######################################### -->
<!--
########################################################################
######################################### -->
<div id="academiclinks" class="clear">
<h2>Quickly Find What You Are Looking For</h2>
<div class="linkbox">
<ul>
<li><a href="http://localhost/xampp/project/vehicle/homepage.php">&raquo;
Home</a></li>
<li><a href="http://localhost/xampp/project/library/userlogin.php">&raquo;
Student Login</a></li>
<li><a href="http://localhost/xampp/project/library/userlogin.php">&raquo;
Teacher Login</a></li>
<li><a href="http://localhost/xampp/project/library/adminlogin.php">&raquo;
Adminlogin</a></li>
<li><a href="http://localhost/xampp/project/library/newarrivals.php">&raquo;
New Arrivals</a></li>
<li><a href="http://localhost/xampp/project/library/onlinevehicle.php">&raquo;
Online Books</a></li>
<li><a href="http://localhost/xampp/project/library/egallery.php">&raquo; E-
Gallery</a></li>
<li><a href="http://localhost/xampp/project/library/aboutus.php">&raquo;
About Us</a></li>
<li><a href="http://localhost/xampp/project/library/contactus.php">&raquo;
Contact Us</a></li>
<li><a href="http://localhost/xampp/project/library/questionpaper.php">&raquo;
Question Papers</a></li>
<li><a href="http://localhost/xampp/project/library/latestnews.php">&raquo;
Latest Events & News</a></li>

</ul>
</div>
<!--
########################################################################
######################################### -->
</div>
```

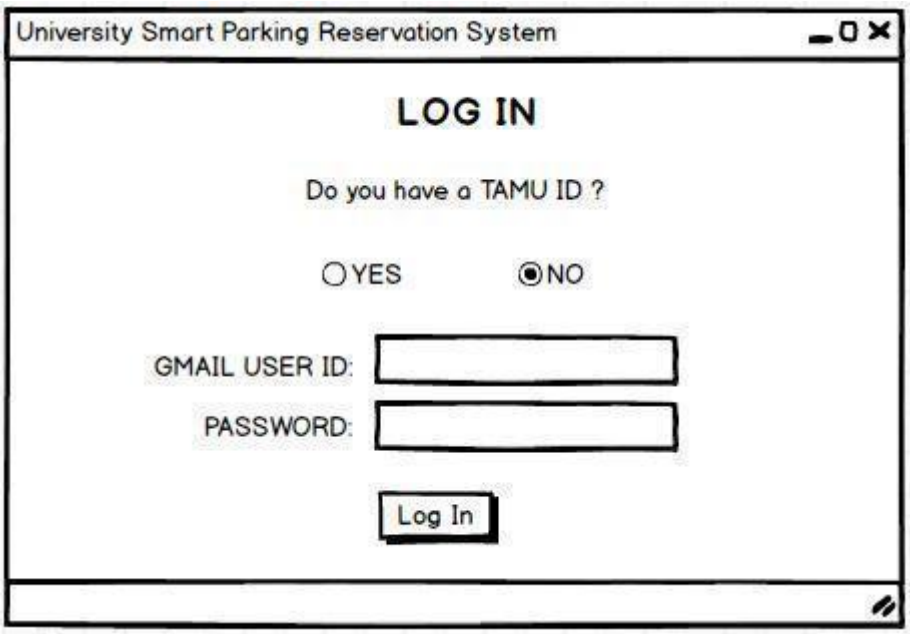
```
</div>
</div>
<!--
########################################################################
######################################### -->
<!--
########################################################################
######################################### -->
<div class="wrapper">
<div id="copyright" class="clear">
<p class="fl_left">DEVELOPER:
VIKRAM,RAHUL,PRABHAKAR,RAJAT</p>
</div>
</div>
</body>
</html>
<?php
$con=mysqli_connect("localhost","root","","library");
// Check connection
if (mysqli_connect_errno())
{
echo "Failed to connect to MySQL: " . mysqli_connect_error();
}
$code=$_POST['vehiclescode'];
$name=$_POST['vehiclename'];
$aname=$_POST['parkingname'];
$publication=$_POST['name plate'];
$result = mysqli_query($con,"SELECT * FROM vehicles WHERE code =
'$code' || vehiclesname = '$name' || user = '$aname' || model = '$Model'");
echo "<table border='1'>
<tr>
<th>vehicles code</th>
<th>Parking Name</th>
<th>user</th>
<th>location</th>
<th>model</th>
<th>No of vehicles</th>
</tr>";
while($row = mysqli_fetch_array($result))
{
echo "<tr>";
echo "<td>" . $row['code'] . "</td>";
echo "<td>" . $row['vehiclesname'] . "</td>";
```

```
echo "<td>" . $row['vehiclesname'] . "</td>";
echo "<td>" . $row['vehiclenumber'] . "</td>";
echo "<td>" . $row['model'] . "</td>";
echo "<td>" . $row['numberofvehicles'] . "</td>";
echo "</tr>";
}
echo "</table>";
mysqli_close($con);
?>
```


University Smart Parking Reservation System
LOG IN
Do you have a TAMU ID ?
YES
NO
GMAIL USER ID:
PASSWORD:
Log In


SetupConfirmForm
PC Settings
Command Window
Setup Space
Set Lot Number
Show Picture
Get Coordinate
Start System
Stop System
Region
1FG11: X1=57,Y1=76, X2=116,Y2=115

Screenshot for User registration form with validation

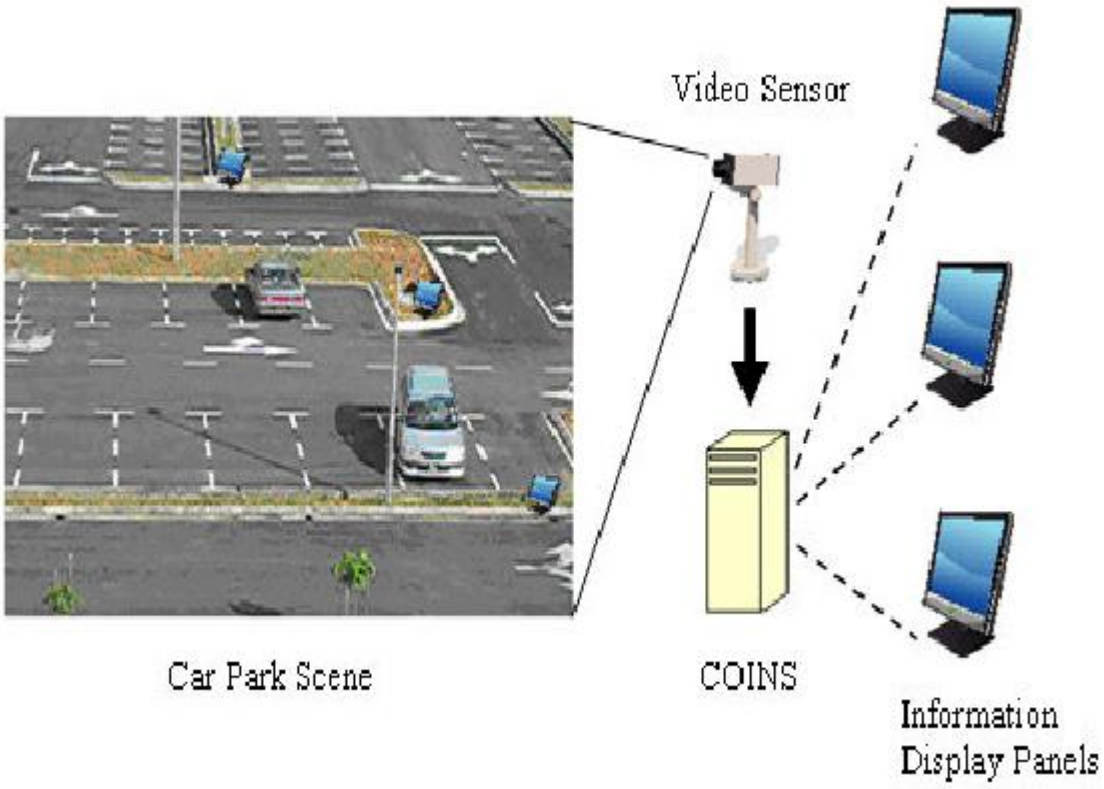


Car Park Guiding
SHOW
Info:
Total Available: 2
Total Unavailable: 47
Done!
Your parking lot
ID is 1FG22
Exit

Car Park Guiding
SHOW
Info:
Total Available: 3
Total Unavailable: 46
Done!
Your parking lot
ID is 1FG22
Exit

Car Park Guiding
SHOW
Info:
Total Available: 2
Total Unavailable: 47
Done!
Your parking lot
ID is 1FG11
Exit

Car Park Guiding
SHOW
Exit


Video Sensor
Car Park Scene
COINS
Information
Display Panels

SYSTEM TESTING

The aim of the system testing process was to determine all defects in our project. The program was subjected to a set of test inputs and various observations were made and based on these observations it will be decided whether the program behaves as expected or not.
Our Project went through two levels of testing

1. Unit testing

2 .integration testing

UNIT TESTING

Unit testing is undertaken when a module has been created and successfully reviewed. In order to test a single module, we need to provide a complete environment i.e. besides the module we would require

The procedures belonging to other modules that the module under test calls

Non local data structures that module accesses

A procedure to call the functions of the module under test with appropriate parameters

1. Test For the admin module

- Testing admin login form-This form is used for log in of administrator of the system. In this we enter the username and password if both are correct administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask for username and password
- User account addition- In this section the admin can verify student details from User academic info and then only add User details to main data Vehicles base it contains add and delete buttons if user click add button data will be added to vehicles database and if he clicks delete button the user data will be deleted
- Vehicles Addition- Admin can enter details of vehicles and can add the details to the main vehicles table also he can view the vehicles requests.
  2. Test for User login module
- Test for User login Form-This form is used for log in of User .In this we enter the username and password if all these are correct User login page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask for parking, username and password.
- Test for account creation- This form is used for new account creation when User does not fill the form completely it asks again to fill the whole form when he fill the form fully it gets redirected to page which show waiting for conformation message as his data will be only added by administrator after verification.

2. Test for teacher login module-

- Test for teacher login form- This form is used for log in of Admin .In this we enter the username and password if all these are correct Admin login page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask for username and password.

INTEGRATION TESTING

In this type of testing we test various integration of the project module by providing the input. The primary objective is to test the module interfaces in order to ensure that no errors are occurring when one module invokes the other module.

CONCLUSION & FUTURE SCOPE

This report showed the evolution of technology within our society and community. The main focused was on a subset of the work related to it of which it focuses on the implementation of an advanced parking system which utilises sensors and different latest technologies. This report highlighted the hypothesis together with the aims and objectives of the project along with methods to be used for the development of the project. The justification of the project choice was either made on personal preferences, solution on the state of the art or just a basic interest in the particular approach. Work that should be done in the current project had been

elaborated along with plans on the future work which also have been briefly explained. The expectation of this research is to show some ways in which automated parking system may help improve the life style of many car owners and also save their time while needing a parking around a certain area such as mall, school, or any way around.

It makes entire process online where User can search vehicles, staff can generate reports and do vehicles transactions. It also has a facility for Costumer login where costumer can login and can see status of vehicles issued as well request for book or give some suggestions. It has a facility of teacher's login where Admin can add new vehicles and also give necessary suggestion to Parking and also add info about workspace or events happening in our Parking or in the online notice board.

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MsNygtLisBCgoKDg0OFxAQGCsdHR0tLS0tLSs3MC0rLSstKy0tLSstLS0rLTcrLS0tLS0 tLS0tLS0tLTEtKzctLi0rLSstLf/AABEIAJkBSQMBIgACEQEDEQH/. [Accessed 27 February 2017].

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