A Project Report

On

**SMART ONLINE NOTES SHARING AND
RETRIEVAL SYSTEM**

Submitted in partial fulfillment of the
requirement for the award of the degree of

Bachelor of Technology
In
Computer Science & Engineering

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

Under The Supervision of
Dr. Vishwadeepak Singh Baghela

Submitted By

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**SCHOOL OF COMPUTING SCIENCE AND ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
GALGOTIAS UNIVERSITY, GREATER NOIDA
INDIA,
DECEMBER,
2021**

CANDIDATE'S DECLARATION

I/We hereby certify that the work which is being presented in the thesis/project/dissertation, entitled **"Smart Online Notes Sharing & Retrieval System"** in partial fulfillment of the requirements for the award of the Bachelor Of Technology submitted in the School of Computing Science and Engineering of Galgotias University, Greater Noida, is an original work carried out during the period of month, Year to Month and Year, under the supervision of Dr. Vishwadeepak Singh Baghela (Professor) , Department of Computer Science and Engineering/Computer Application and Information and Science, of School of Computing Science and Engineering , Galgotias University, Greater Noida

The matter presented in the thesis/project/dissertation has not been submitted by me/us for the award of any other degree of this or any other places.

Aryaman Tewari -18SCSE1010235
Ankit Chauhan -18SCSE1010117

This is to certify that the above statement made by the candidates is correct to the best of my knowledge.

Dr. Vishwadeepak Singh Baghela
(Professor)

CERTIFICATE

The Final Thesis/Project/ Dissertation Viva-Voce examination of Aryaman Tewari: 18SCSE1010235, Ankit Chauhan: 18SCSE1010235 has been held on 17-12-21 and his/her work is recommended for the award of Bachelor of Technology.

Signature of Examiner(s)   **Signature of Supervisor(s)**

Signature of Project Coordinator   **Signature of Dean**

Date: December, 2021
Place: Greater Noida

ACKNOWLEDGEMENT

I would like to express my special thanks of gratitude to my teacher Dr. Vishwadeepak Singh Baghela, who gave me the golden opportunity to do this wonderful project on "Smart Online Notes Sharing & Retrieval System", who also helped me in completing my project. I came to know about so many new things I am really thankful to them .Secondly i would also like to thank my parents and friends who helped me a lot in finalizing this project within the limited time frame.

<div align="right">

Aryaman Tewari

Ankit Chuhan

</div>

Abstract

Smart Online Notes Sharing & Retrieval System is a web based notes sharing and management system which helps students and teachers to share their notes online effectively. It reduces the wasting of time in manually distributing notes to each individual. It greatly overcomes the lack of availability and converts the manual old school paperwork to a fully automated and managed online system. It is difficult for teacher's to circulate their notes to each and every student whom is he/she teaching. Smart Online Notes Sharing provide an easy approach for both students and teachers to circulate the notes whether of any kind like lecture notes, assignment questions, question papers and all the important documents.

Online Notes Sharing allows its users to securely register and log in to their individual accounts and create, read, update, delete notes according to their needs. It provides notes to everyone in a very secure manner. Multiple users can work in this system at the same time under centralized supervision by administrator. It is a very useful notes management system for Colleges, Schools and other Institutes to manage and share their notes in a secure, efficient and effective manner

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CHAPTER-1
Introduction

As the world evolves with new technologies, the concept of inventing and manipulating new ideas and taking everything online is changing rapidly. It is difficult for a teacher to spread his teachings to every student. Smart online notes sharing system provides an easy way for students and teachers to disseminate notes, including any lecture notes, assignment questions, question papers and all important documents. Teachers and students can upload documents from anywhere and students can download it. Overall it is managed by admin.

Objectives -

- To reduce manual paperwork.

- Less sharing and delivery times.

- Reliability increased.

- Increase in operational efficiency.

- Data security.

This notes management system can be easily used through non-programming personal evasion The possibility of human management error. This project is used by three types of customers

I. Student.

II. teachers

III. Managers

Students and teachers can create their own accounts and start viewing notes shared by other users as well as uploading their own notes. The admin must be an authorized user who can track all the notes he has uploaded as well as manage users through the admin panel.

New features can be added to the system as needed

Formulation of Problem

Proposed system:

Many students have trouble reading during exams because they may not have the notes provided by the teachers or they may not be in college. This system provides a platform for easy access to notes. Most notes are sent via Whatsapp or anything, so it can be very difficult to manage important notes when needed.

- There is no software at all.

- The time taken to distribute the notes to everyone.

- Manual paperwork.

- Students will be notified of the notes by sending emails manually.

- Lack of access

Existing System:

My system provides an easy way to share documents for study purpose. Multiple users can work on the system at once. Teachers will find it easier to circulate notes to each student.

- The web based system is easy to use.

- Users can register online.

- Notes are available from anywhere.

- Centralized control by administrator.

- Handle notes securely.

Tool and Technology Used

Hardware requirements

- Core 2 Duo processor

- 1 GB of RAM

- Hard Disk 10 GB

- Cache memory 512 KB

Software requirements

- **Windows operating system**- Windows is a graphical operating system developed by Microsoft. It allows users to view and store files, run the software, play games, watch videos, and provides a way to connect to the internet. It was released for both home computing and professional works.

- **PHP-** PHP (Hypertext Preprocessor) is known as a general-purpose scripting language that can be used to develop dynamic and interactive websites. It was among the first server-side languages that could be embedded into HTML, making it easier to add functionality to web pages without needing to call external files for data.

- **MySQL-** MySQL is a relational database management system based on SQL – Structured Query Language. The application is used for a wide range of purposes, including data warehousing, e-commerce, and logging applications. The most common use for mySQL however, is for the purpose of a web database.

- **HTML-** Hypertext Markup Language, or HTML, is a programming language used to describe the structure of information on a webpage. Together, HTML, CSS, and JavaScript make up the essential building blocks of websites worldwide, with CSS controlling a page's appearance and JavaScript programming its functionality. You can think of the HTML document as providing the bones of a webpage.

- **CSS-** CSS is the language for describing the presentation of Web pages, including colors, layout, and fonts. It allows one to adapt the presentation to different types of devices, such as large screens, small screens, or printers. CSS is independent of HTML and can be used with any XML-based mark-up language.

- **JavaScript-** JavaScript is a text-based programming language used both on the client-side and server-side that allows you to make web pages interactive. Incorporating JavaScript improves the user experience of the web page by converting it from a static page into an interactive one. To recap, JavaScript adds behavior to web pages.

- **Bootstrap-** Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS- and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components. Like js framework, react library, Tensor Flow and others.

- **Wamp**- WampServer or simply WAMP is a Windows web development environment. It is a local server package for Windows, allowing you to create dynamic web applications (like WordPress, Joomla, Drupal, etc.) PhpMyAdmin bundled with Wamp Server allows you to manage your databases easily.

- **Apache Server**- Apache is the web server that processes requests and serves web assets and content via HTTP. MySQL is the database that stores all your information in an easily queried format. PHP is the programming language that works with apache to help create dynamic web content.

CHAPTER-2
Literature Survey

In today's age of science and technology, there is connectivity in the process of our daily lives. Information technology has revolutionized life in the world and made life easier through a variety of applications. In light of the rapid changes with the use of IT, many tools, technologies and systems have been produced and invented. We know that knowledge and information play an ever-increasing role in every aspect of life. In the modern age of the digital world each problem has its own digital solution, meaning that everything is in the focus of data. The Note Circulation Platform gives you the opportunity to choose the right person for your needs. If the user goes through the required process, contact information will be provided to the user.

The design and implementation of the student document sharing system and user interface aims to replace the current paper record. Department staffs have direct access to all aspects of student academic progress through a secure, online interface. Via the Department App. In the past, the college relied heavily on paper records for this initiative. While paper records are the traditional way to handle student data and various tasks, this method has several drawbacks. First, students should be informed is displayed on the notice board and the student must visit the notice board to verify that information. It takes a long time to convey information to a student. Paper records are difficult to maintain and track. The physical pressure required to retrieve, replace, and re-file paper records are all value-added activities. This system provides a simple interface to manage student information. It can be used by educational institutions or colleges to easily maintain student records. This goal is difficult to achieve using a manual system because the information is scattered, unnecessary and it is very difficult to gather relevant information as it takes time.

All these problems can be solved using Smart Connect. The paper focuses on presenting information in a simple and smooth manner that facilitates the creation of profiles such as student, professor, principal and superiors, thereby automating the record creation process in an educational institution. All data is stored securely on the SQL Server maintained by the College Administrator and ensures the highest level of security possible.

Modules Description

Design is the first step in the development phase for any engineering product or system. It can be defined as a "process" using different methods and principles for the purpose of defining the device, a process or a system is detailed enough to allow its physicality realization. "

Student module

- This module is designed for students.

- The student can register himself by creating a new account.

- Share ideas and documentation there.

Faculty Module

- Educators can register themselves by creating a new account.

- This module is unique to faculties.

- Instructors can upload documents and they can be changed notes

Admin module

- Admin takes care of all uploading and de-uploading techniques through this module.

- Admin may have access to both profiles faculty members and students accounts without need of password or user ID.

Notes module

- All uploaded documents are saved in the database.

- Notification will be sent to all students and faculty members when documents are uploaded.

- Notes can be uploaded and deleted by teacher and student. It can be downloaded by every student and teacher.

CHAPTER-3
Modules Design/Diagrams

Level-0 DFD

DFD Level 0 is also called **a Context Diagram**. It's a basic overview of the whole system or process being analyzed or modeled. It's designed to be an at-a-glance view, showing the system as a single high-level process, with its relationship to external entities.
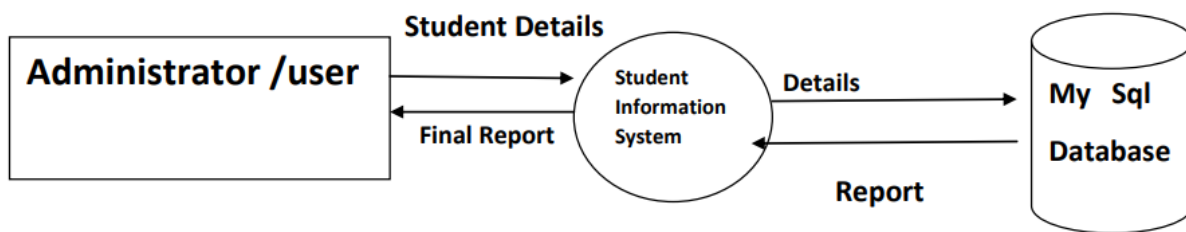
Level-1 DFD

A level 1 DFD notates each of the main sub-processes that together form the complete system. We can think of a level 1 DFD as an "exploded view" of the context diagram.
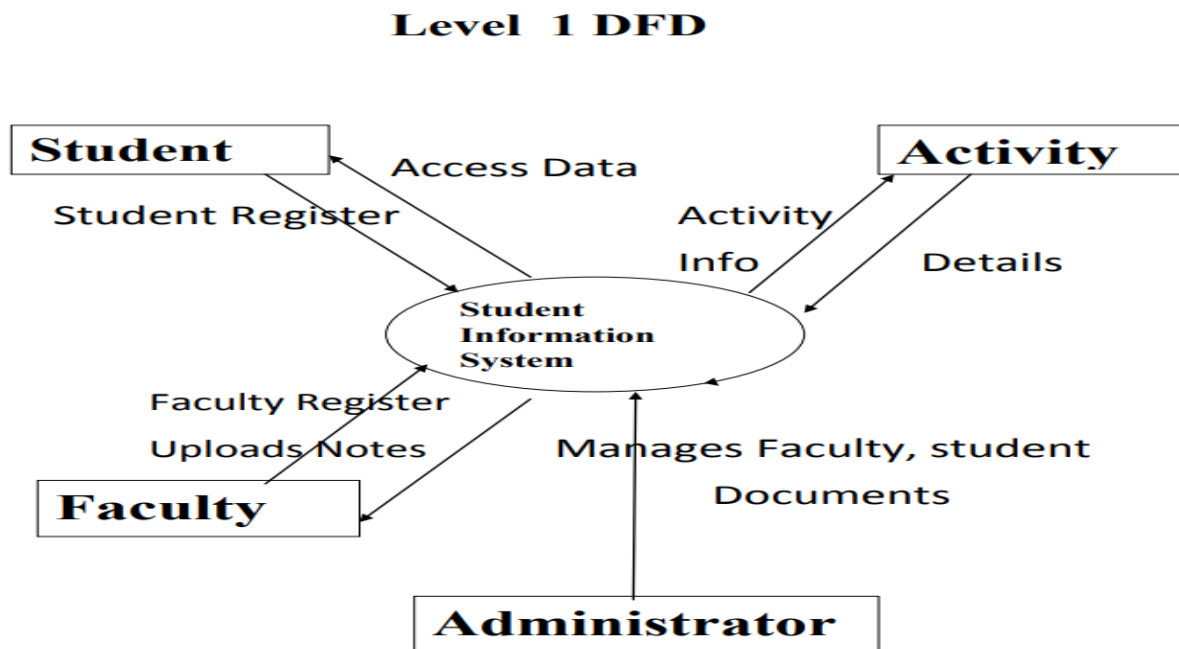

Fig. 3.1

UML Diagram

A UML diagram is a diagram based on the UML (Unified Modeling Language) with the purpose of visually representing a system along with its main actors, roles, actions, artifacts or classes, in order to better understand, alter, maintain, or document information about the system. UML is a static diagram. It represents the static view of an application. UML diagram is not only used for visualizing, describing, and documenting different aspects of a system but also for constructing executable code of the software application. UML diagram describes the attributes and operations of a class and also the constraints imposed on the system. The class diagrams are widely used in the modelling of object oriented systems because they are the only UML diagrams, which can be mapped directly with object-oriented languages.
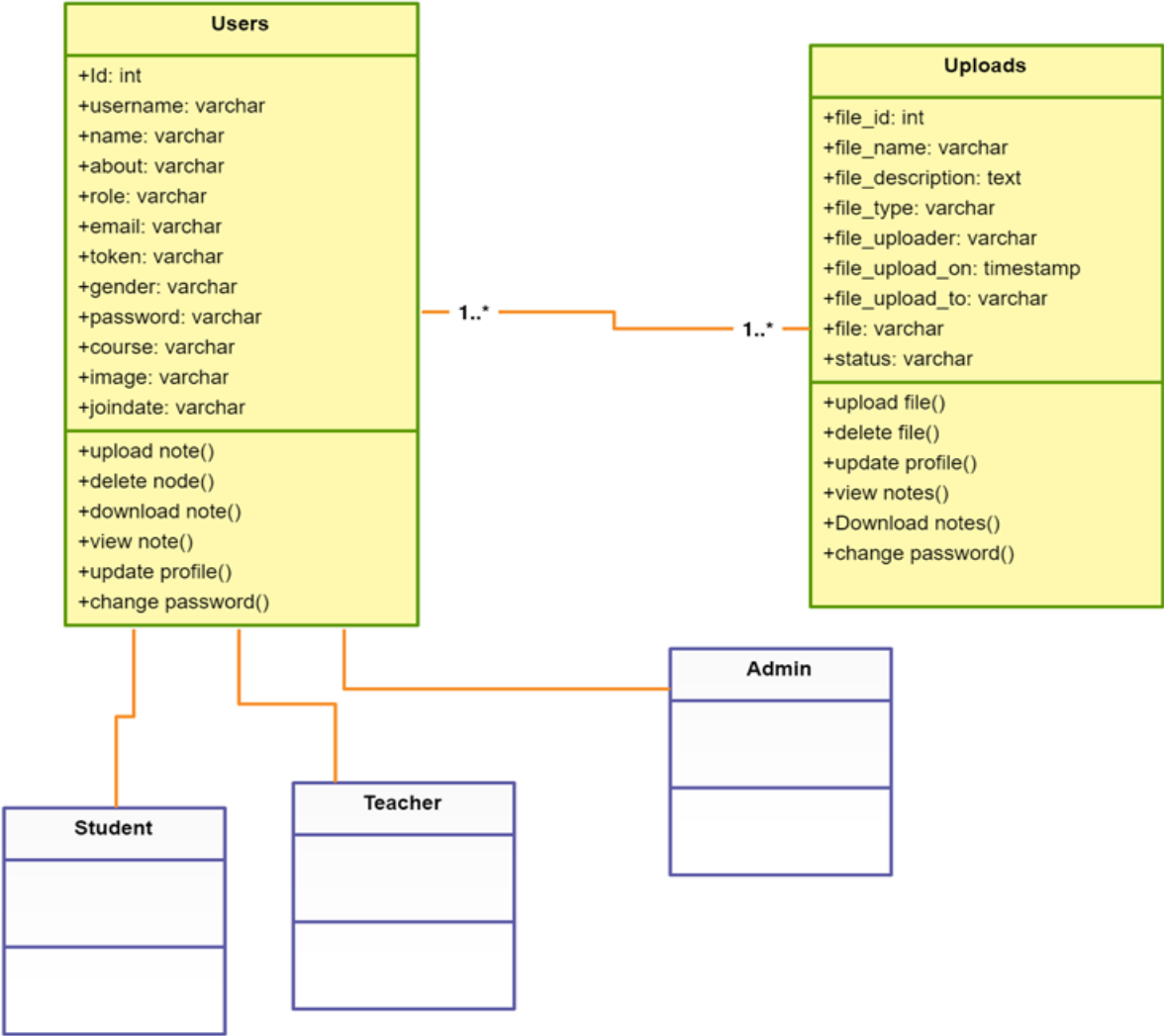

Fig. 3.2

Flowchart Diagram

Flow diagram is a collective term for **a diagram representing a flow or set of dynamic relationships in a system**. Flow diagrams are used to structure and order a complex system, or to reveal the underlying structure of the elements and their interaction.

First start the web-application and if you are admin then go to admin panel add/remove student or teacher. If not then login by registered id or signup. If teacher then download/upload files or receive and reply messages and if student then download/upload files and use chat discussion.
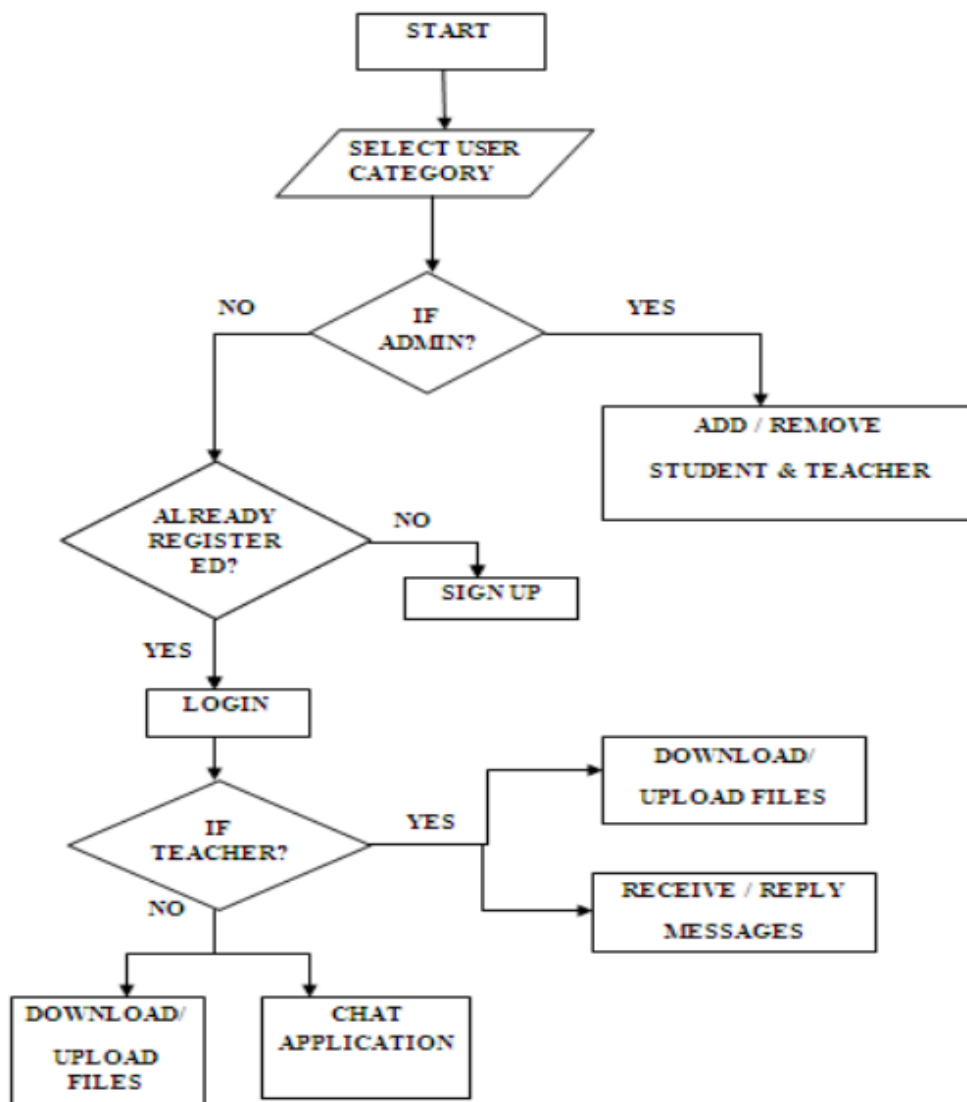

Fig. 3.3

ER-Diagram

ER Models, they use a defined set of symbols such as rectangles, diamonds, ovals and connecting lines to depict the interconnectedness of entities, relationships and their attributes. Entity relationship diagram displays the relationships of entity set stored in a database. In other words, we can say that ER diagrams help you to explain the logical structure of databases. At first look, an ER diagram looks very similar to the flowchart. However, ER Diagram includes many specialized symbols, and its meanings make this model unique.
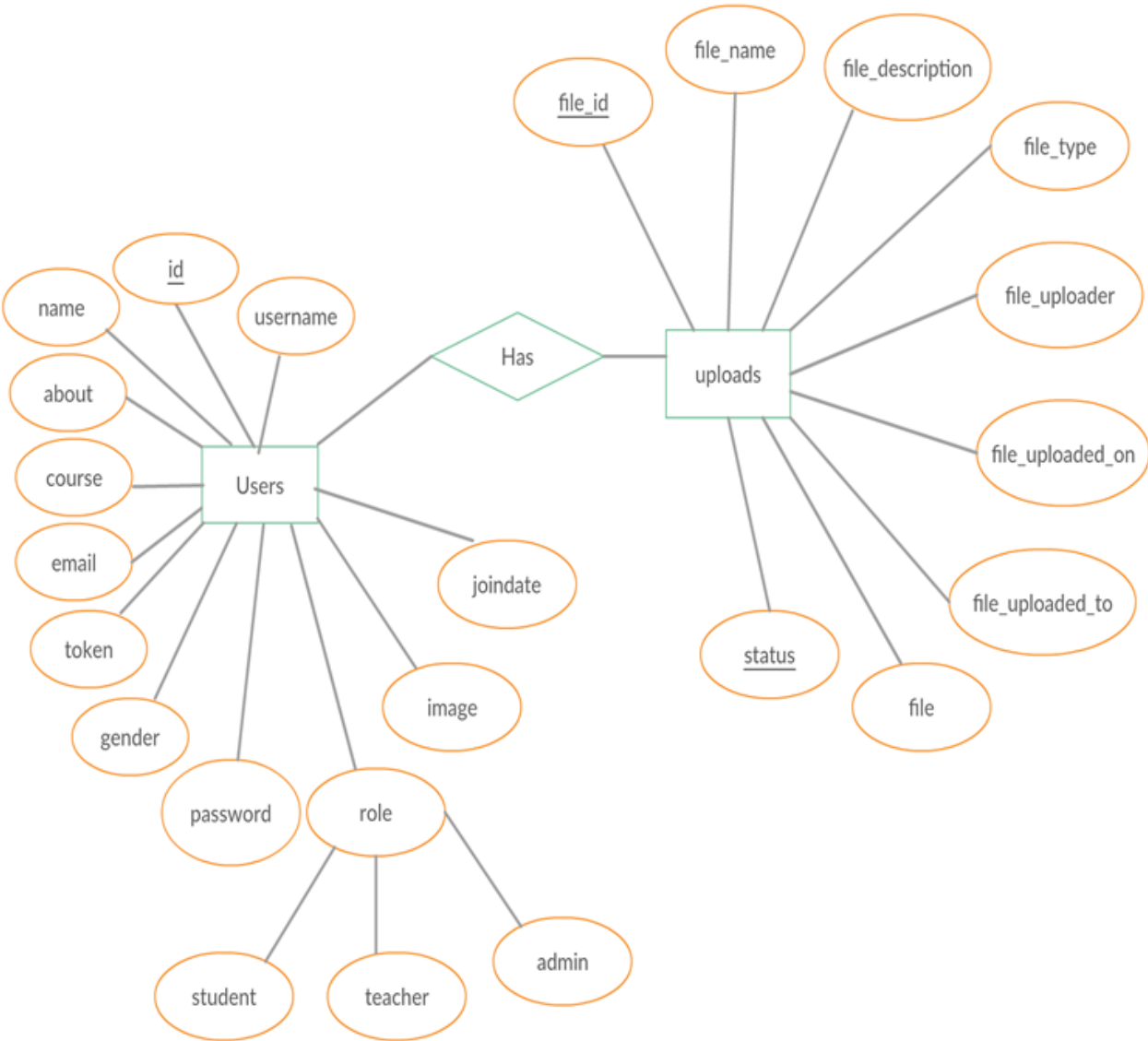

Fig. 3.4

Architectural Diagram

An architecture diagram is a graphical representation of a set of concepts that are part of architecture, including their principles, elements and components. Though there are many ways to create them, a good architecture diagram should give us a clear overview of a system. At a single glance, we can see which building blocks are being used, how they interlink and how data flows between them. Diagrams help with a variety of situations.
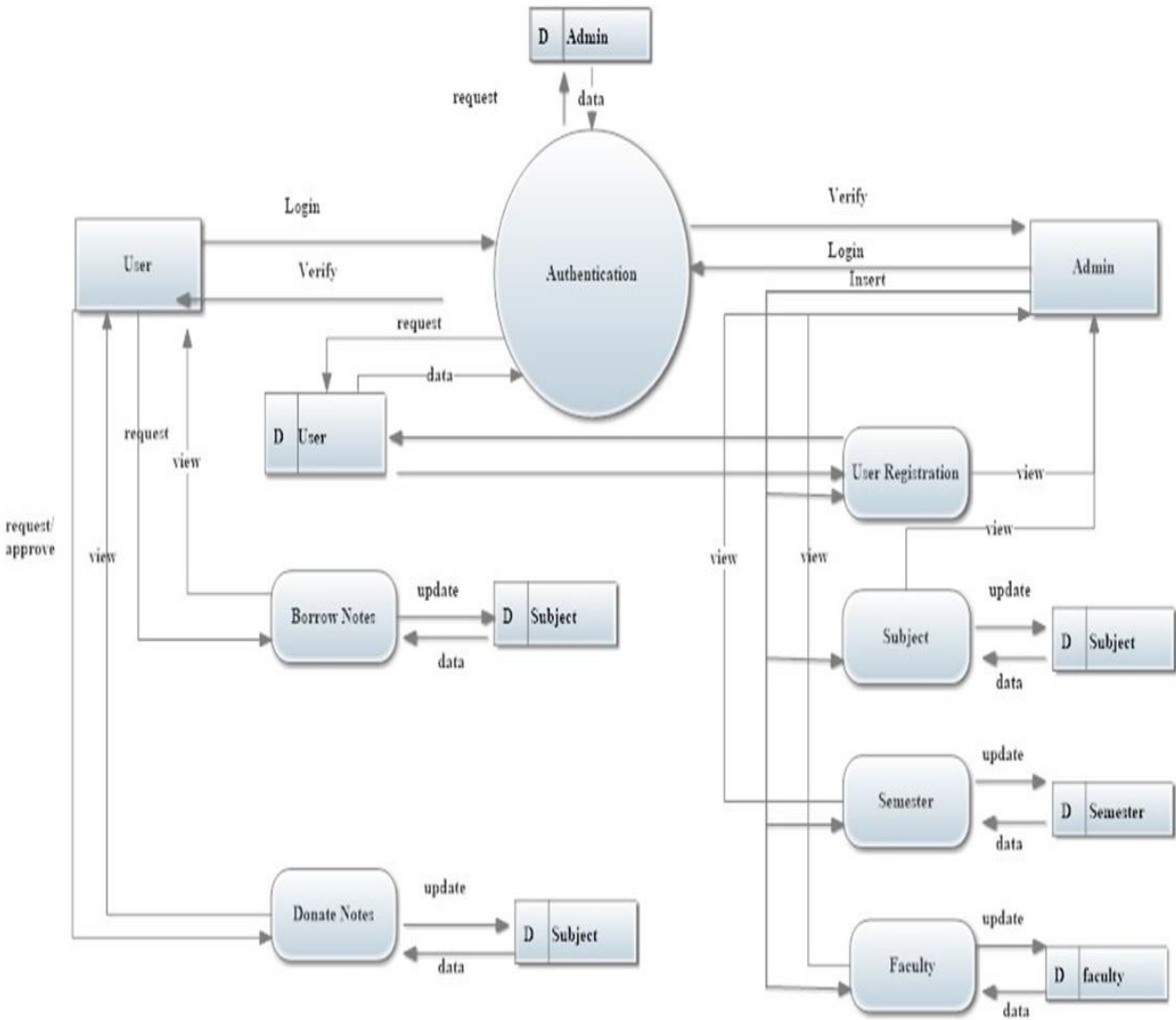

Fig. 3.5

Database Design

Database design is the process of producing a detailed data model of a database. This logical data model contains all the needed logical and physical design choices and physical storage parameters needed to generate a design in a Data Definition Language, which can then be used to create a database.

There are 9 tables in the database for handling of the data. They are named as StudentDetails, Admin, UserLogin, UserRegistration, facultyName, facutySemSubject, Subject, Semester, BorrowNotes & DonateNotes.

Following records are inserted into the table:

StudentDetails:- This table is manipulated by the admin. Admin add the record of StudentFirstName, StudentMiddleName, StudentLastName, RollNo, MobileNo, Email, Year, Semester, Subject, TokenNo and Faculty.

Admin: - The column of this table are Id, FirstName, LastName, UserName and Password. The UserName and Password used in this table are used for admin login.
UserRegistration:-This table includes the records of UId, UserName,, MobileNo, Email, Password, Faculty, Years, Semester, RollNo and Coins. It is manipulated by admins.

UserLogin: - It includes the record of Id, UserId, UserName and Password. It is navigated by Admin.

FacultyName: - The column of this table includes Fid, FacultyName1 and IsActive. It is manipulated by Admin.

FacultySemSubject: - The column of this table includes Mid, SID, Fid and SemID. Its navigation properties are table named FacultyName, Semester and Subject.

Subject: - This table includes column named SID, SName and IsActive. It's navigation properties are table named BorrowNotes and FacultySemSubject.

Semester: - This table includes column named SID, SName, Year and IsActive. Its navigation properties are table named BorrowNotes and FacultySemSubject.

BorrowNotes:- The column of this table includes BID, StudentID, SemID, SubjectID, IsActive, FID and BorrowDate. Its navigation are in the table Semester, table subject and table UserRegistration.

DonateNotes:- The column of this table includes DID, SubID, SemID, Fid, DonatedBy, DonatedTo,DonatedDate and isActive.

Admin Section

The admin section of the project is designed for the admin of the system to manage the entire system. Admin has access to modify the data used in the system. Admin section can be partitioned into different portions based on the activities performed by the admin. The activities can be described as:

Login: The admin needs to login to enter the admin section. The registration information of the admin is saved in the database separate from the system database.

Add record: Admin can add record in the existing database inside the add portion. To add the data admin needs to go to the table where new data is to be added. The data is added through a form containing the fields that corresponds to the attributes of the table. The values added in the fields are bound in an object that is the instance of the class corresponding to the table. This object is passed to add corresponding values in the database. The addition made by admin are in the table StudentDetails, facultyName Subject and Semester.

Edit and Delete record: Updating of record is very important to keep the record up-to-date. It also helps in correcting the mistakes in the stored data. Admin has access to update the record stored in the existing database. The edit and delete can be performed on a particular record obtained after searching or record initially displayed.

Each record has its own unique representation to differ from another record. To edit the record, system first finds the unique identity of the record and the updated value is stored in the database for that record based on the identity. Admin should be careful not to update the unique identity and in most cases the identity is made not editable.

The deletion of record can be performed similarly. The admin should be careful while deleting any record as it removes the record from the database also.

uploads

Column	Type	Null	Default	Links to	Comments	MIME
file_id *(Primary)*	int(11)	No				
file_name	varchar(225)	No				
file_description	text	No				
file_type	varchar(225)	No				
file_uploader	varchar(225)	No				
file_uploaded_on	timestamp	No	CURRENT_TIMESTAMP			
file_uploaded_to	varchar(225)	No				
file	varchar(225)	No				
status	varchar(225)	No	not approved yet			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	file_id	3	A	No	

users

Column	Type	Null	Default	Links to	Comments	MIME
id *(Primary)*	int(11)	No				
username	varchar(225)	No				
name	varchar(225)	No				
about	varchar(300)	No	N/A			
role	varchar(225)	No				
email	varchar(225)	No				
token	varchar(225)	No				
gender	varchar(225)	No				
password	varchar(225)	No				
course	varchar(225)	No				
image	varchar(225)	No	profile.jpg			
joindate	varchar(225)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	id	16	A	No	

Table No.3.6

Tables

Containing the word:

Table	Rows	Type	Collation	Size	Overhead
uploads	3	MyISAM	latin1_swedish_ci	2.4 KiB	104 B
users	16	MyISAM	latin1_swedish_ci	4.6 KiB	-
2 tables	19	InnoDB	latin1_swedish_ci	7 KiB	104 B

Uploads Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	file_id	int(11)			No	None		AUTO_INCREMENT
2	file_name	varchar(225)	latin1_swedish_ci		No	None		
3	file_description	text	latin1_swedish_ci		No	None		
4	file_type	varchar(225)	latin1_swedish_ci		No	None		
5	file_uploader	varchar(225)	latin1_swedish_ci		No	None		
6	file_uploaded_on	timestamp		on update CURRENT_TIMESTAMP	No	CURRENT_TIMESTAMP		ON UPDATE CURRENT_TIMESTAMP
7	file_uploaded_to	varchar(225)	latin1_swedish_ci		No	None		
8	file	varchar(225)	latin1_swedish_ci		No	None		
9	status	varchar(225)	latin1_swedish_ci		No	not approved yet		

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	file_id	3	A	No	

Partitions

No partitioning defined!

Information

Space usage		
Data	380	B
Index	2	KiB
Overhead	104	B
Effective	2.3	KiB
Total	2.4	KiB

Row statistics	
Format	dynamic
Collation	latin1_swedish_ci
Rows	3
Row length	92 B
Row size	809 B
Next autoindex	64
Creation	Feb 08, 2019 at 09:29 PM
Last update	Feb 12, 2019 at 12:03 PM
Last check	Feb 12, 2019 at 07:51 PM

Upload Tables Data

Showing rows 0 - 2 (3 total, Query took 0.0017 seconds.)

SELECT * FROM `uploads`

file_id	ile_name	ile_description	ile_type	ile_uploader	ile_uploaded_on	ile_uploaded_to	ile	tatus
60	ew one	omp science	df	bhishek	019-02-10 12:15:39	cience	97871.pdf	pproved
61	orm of acs	ifficult steps leading beautiful way	df	ajesh	019-02-12 11:38:38	rts	29826.pdf	ot approved yet
62	23456	im loving it	df	ajesh	019-02-12 11:39:23	rts	68059.pdf	ot approved yet

Table No. 3.7

Users Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id	int(11)			No	*None*		AUTO_INCREMENT
2	username	varchar(225)	latin1_swedish_ci		No	*None*		
3	name	varchar(225)	latin1_swedish_ci		No	*None*		
4	about	varchar(300)	latin1_swedish_ci		No	N/A		
5	role	varchar(225)	latin1_swedish_ci		No	*None*		
6	email	varchar(225)	latin1_swedish_ci		No	*None*		
7	token	varchar(225)	latin1_swedish_ci		No	*None*		
8	gender	varchar(225)	latin1_swedish_ci		No	*None*		
9	password	varchar(225)	latin1_swedish_ci		No	*None*		
10	course	varchar(225)	latin1_swedish_ci		No	*None*		
11	image	varchar(225)	latin1_swedish_ci		No	profile.jpg		
12	joindate	varchar(225)	latin1_swedish_ci		No	*None*		

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	id	16	A	No	

Partitions

No partitioning defined!

Information

Space usage

Data	2.6	KiB
Index	2	KiB
Overhead		
Effective	4.6	KiB
Total	4.6	KiB

Row statistics

Format	dynamic
Collation	latin1_swedish_ci
Rows	16
Row length	165 B
Row size	294 B
Next autoindex	33
Creation	Feb 08, 2019 at 09:29 PM
Last update	Feb 12, 2019 at 12:10 PM
Last check	Feb 12, 2019 at 08:04 PM

Users Table Data

Showing rows 0 - 15 (16 total, Query took 0.0026 seconds.)

SELECT * FROM `users`

id	sername	ame	bout	ole	mail	oken	ender	assword
8	man12	man ingh	/A	tudent	ajeshhsingh21@gmail.com		ale	2y10JhAbfJJgPfKSx.74n3Cjs.uvGT00qY6tmKrFU25qG11...
9	bhishek	bhishek ingh	/A	tudent	bhisheksingh02031997@gmail.com		ale	2y$10$5J5hKhJ146VcsofszmQd5OzXdFXjPMvCyH1orVc3TM5...
4	ser	ser1	/A	eacher	ser@ndndn.cbbc		ale	2y10Z1H.ruYjbMSp07EhejzS0O1Fr7PgFdjqbWmtu7/j68T...
3	eacher2	eacher2	/A	eacher	eacher2hdh@n.fncn		ale	2y10rCjs9AHzUSVmITcRJJosgeUxJA5gJ7dZfY16ij/1xf9...
2	eacher	eacher	/A	eacher	eacher@bfbf.nncn		ale	2y10jAk4uQiBQ6b03EVZ0/9i1ucWdNFcvV1dXYj4X2f8uZ4...
2	oot	DMIN	/A	dmin	bhishekssingh07@gmail.com		/A	2y10UZA9vVS.BTFhsvmN1/RZm.CkXKEwg.ttFsh0lyrDRuU...
1	tudent	tudent4	/A	eacher	ser4@gmai.com		emale	2y$10$8NTdzG/HXZq5d23o9IqteOY3vWZg75hC99tkuU60/iv...
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9	ser2	ser2	i am ser	tudent	ser2@gmail.com		emale	2y10OCazXxzd6FM.V2afvmapqOGxVj8Gac3zN.2tlmuO1v1...
0	ser3	ser3	/A	eacher	ser3@gmail.com		ale	2y10DEKxq9z1r8sWPSzj2XL7LOIT.cUWZv1EbTGZlrXO2Vk...
6	ser6	ser6	/A	eacher	ser6@gmail.com		ale	2y$10$8OKm1GXZtf4vWTafLHgmjeFls3SvCTWiyXJVhnPr4XO...
5	nirban	nirban	/A	eacher	nirban.root@gmail.com	bab3eec077a38d565e9c93442178b7d	ale	2y10h4i29DiU8zeLT7EOMLka3uTTCtAxtU.DAExBhywJF3S...
7	ser9	fg gghh	/A	eacher	fhhgh@jjdj.vjjv		ale	2y10Z1hwjfIGjC8/Zv0NFy/BDO0W.A6K4ZAWLPrW8.himo7...
0	hikha	hikha	/A	eacher	hikha@gmail.com		emale	2y10i8Hs./hphjHhXEe.8LmP6eUdGRcgQJff4UvM3JP5VR4...
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2	hreya	hreya azirani	/A	tudent	hreya.vazirani06@gmail.com		emale	2y$10$3DdnjBv1F6e55o4RMLPg2eaKnfaSXn5ygC3a5MJ4LTO...

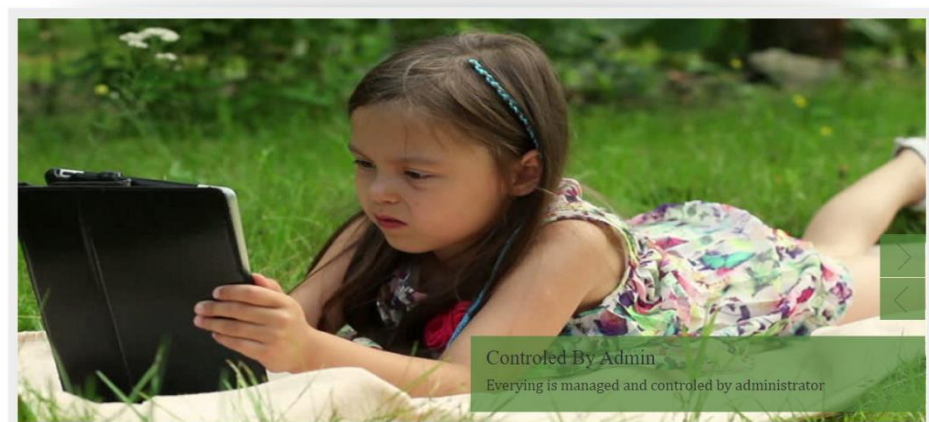**Table No. 3.8**

CHAPTER-4
Results and Discussion

Many professor and student have to search a lot of books and visit different libraries for research purpose or for a project. This takes a lot of time and money. This web-application would be able to reduce the time and money usage as the books and notes would be available on this platform from across the globe thus making the things easier. This application will reduce the communication gap between the professor and student which would boost the learning process and ease the education system.

This web-application also implements the concept of clustering algorithm which would lead us to make the groups of most viewed notes and also groups of people who regularly upload the notes on the web application. This concept will ease the user in searching for the notes they need as this sorting would be done categories wise. Also using the same, the user would also find it easy to know which professor or student to contact in order to clear any doubts if any.

Screenshots/Result:

Homepage

Signup Page

Login Page

User Dashboard

User Upload Notes

Admin Page

Admin Dashboard

CHAPTER-5
Conclusion and Future Scope

Conclusion

Using this system the students would be able to access a variety of technical and reference books at no cost. The notes for only specific Engineering departments would be included for now. In future, we would be able to add other departments also. The feature of coaching videos and tutorials can also be added. As the through this app the professor and student would be able to communicate and have group discussion which may lead to innovative ideas and projects. So in that case the IEEE papers from various journals can also be included.

- It will monitored remotely

- Reduces the man power and paper work , it will provide accurate

  Information, so by doing all the stored online we will reduce the

  Chances of malpractice loss of data etc.

- All faculty and students can get the required information easily

  Without delay.

Future Scope

The project has a very vast scope in future. The project can be implemented on intranet in future. Project can be updated in near future as and when requirement for the same arises, as it is very flexible in terms of expansion. With the proposed software of Smart Online Notes Sharing and Retrieval System will be ready to use by any organisation hence run the entire work in a much better, accurate and error free manner.

The following are the future scope for the project.

1- Only a particular organisation people can use this system.

2- Unique ID of students and teachers will be generated by the system.

3- Mailing system will be done with the message alert system.

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