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ANDROID APP FOR E-COMMERCE

A Report for the Evaluation 3 of Project 2

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Under the Supervision of

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**SCHOOL OF COMPUTING AND SCIENCE AND
ENGINEERING**

BONAFIDE CERTIFICATE

**Certified that this project report “ANDROID APP FOR E-COMMERCE”
is the bonafide work of “VIRENDRA CHAUHAN(1713104045)” who
carried out the project work under my supervision.**

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Abstract:-

This project is all about selling the products online either it can be anything that are human needs like some of them I am listing, foods ,clothes and specially generic-medicines.

Now the Indian government has announced to sell all the generic-medicines online while it was not legal to do so. So with the help of this project I want provide so many discounts to the customers, people will get up-to 70% discounts on all the generic products that they buy from the local shop at the market retail price.

The only thing is to be done from the customer end is to install the mobile app and order using our mobile app , we will deliver at their door steps.

There in the market, there are so many patent products that can be replaced by the generic products because they both work same.

So To accomplish this task I am developing a android application that will be capable to show the products and take the order from the customer end and update them about their order.

For the designing the app I am using the android studio using which I give to my app design and as well as the functionality.

The app will consists of number of widgets with the help of the number of layout method to layout the components of the android app.

For back-end I am using google-firebase that will store the information of our products and the user on the internet.

With this project-idea I have learnt so many things in the field of computer that how the e-commerce websites works online.

And I believe that it is important to do so because there are so many companies out there in india who sell the products at the price of gold and they are taking so much of money out of our national. So this will be good to implement this project-idea.

Introduction:-

with this project idea I am going to sell the generic- medicines that takes low cost to manufacturer it.

I am trying to reduce the price the medicines that are being charged at very high price. This will be very helpful to the poor people who can't afford all those high priced pills. Using the technologies that are available today.

The Web is one of the most revolutionary technologies that changes the business environment and has a dramatic impact on the future of electronic commerce (EC). The future of EC will accelerate the shift of the power toward the consumer, which will lead to fundamental changes in the way companies relate to their customers and compete with one another. The immense popularity of the Internet in recent years has been fuelled largely by the prospect of performing business on-line. More and more companies set up their own corporate LANs by Intranet, apply Extranet and Internet to work collaboratively with their customers, suppliers, and partners. The Internet can bring down physical barriers to commerce, almost immediately giving even the smallest business access to untapped markets around the world. At the same time, consumers can conduct business and make purchases from companies previously unavailable to them. Furthermore, companies are able to place marketing material on Internet servers ranging from simple advertising to comprehensive virtual brochures. In today's global marketplace, fast reliable information is a necessity for most companies to attain some kind of competitive advantage. For instance, companies can create a virtual marketplace in which to sell their products. This virtual market is untapped and could reach millions of users on the Internet 24 hours a day

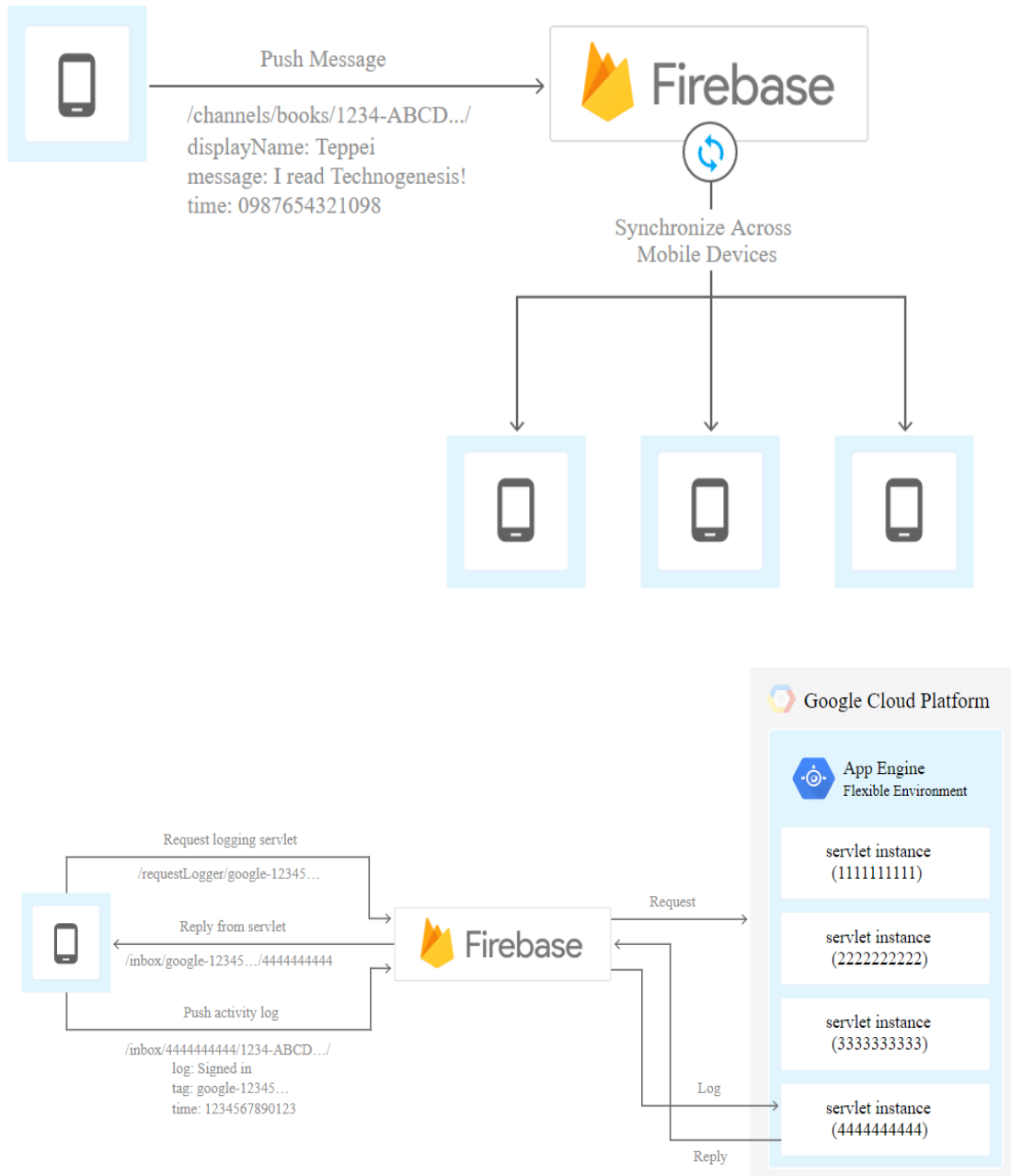
Electronic commerce is defined as buying and selling of product, services or information via computer networks, mainly the Internet. As the fastest growing facet of the Internet and other information technologies, EC offers functionality and new ways of doing business that no company can afford to ignore. The basis for moving to an electronic commerce is a belief that electronic markets have the potential to be more efficient in developing new information-based goods and services, finding global customers and trading partners to conduct business.

Electronic commerce via the Internet or the next generation Internet Protocol, IPv6, will change business institutions, operations and products or services as we know today, just as the telephone, TV, fax, and e-mail changed the way businesses and consumers communicate.

Existing System:-

To develop the app we need the android studio , google cloud-sdk ,firebase
And physical devise that will run our android app.

Implementation or architecture diagram:-



Functionality performed by the customer:-

Register for customer.

login for customer.

Change or forgot password.

Edit profile for customer.

View his shopping and payment history.

Functionality for admin:-

Manage customer.

View profile of the customer.

Manage products.

Manage category.

Manage shipping.

Firestore Services:-

Realtime Database

The Firebase Realtime Database is a cloud-hosted NoSQL database that lets you store and sync between your users in realtime.

The Realtime Database is really just one big JSON object that the developers can manage in realtime.

With just a single API, the Firebase database provides your app with both the current value of the data and any updates to that data.

Realtime syncing makes it easy for your users to access their data from any device, be it web or mobile. Realtime Database also helps your users collaborate with one another.

Another amazing benefit of Realtime Database is that it ships with mobile and web SDKs, allowing you to build your apps without the need for servers.

When your users go offline, the Realtime Database SDKs use local cache on the device to serve and store changes. When the device comes online, the local data is automatically synchronized.

The Realtime Database can also integrate with Firebase Authentication to provide a simple and intuitive authentication process.

Authentication:-

Firebase Authentication provides backend services, easy-to-use SDKs, and ready-made UI libraries to authenticate users to your app.

Normally, it would take you months to set up your own authentication system. And even after that, you would need to keep a dedicated team to maintain that system. But if you use Firebase, you can set up the entire system in under 10 lines of code that will handle everything for you, including complex operations like account merging.

You can authenticate your app's users through the following methods:

Email & Password

Phone numbers

Google

Facebook

Twitter

& more!

Using Firebase Authentication makes building secure authentication systems easier, while also improving the sign-in and onboarding experience for end users.

Firestore Cloud Messaging (FCM):-

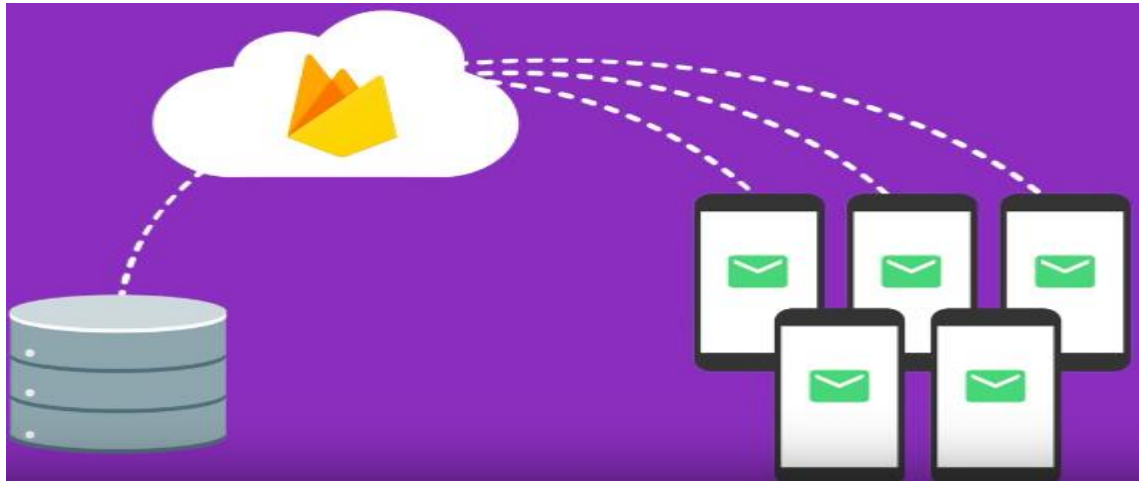
Firestore Cloud Messaging (FCM) provides a reliable and battery-efficient connection between your server and devices that allows you to deliver and receive messages and notifications on iOS, Android, and the web at no cost.

You can send notification messages (2KB limit) and data messages (4KB limit).

Using FCM, you can easily target messages using predefined segments or create your own, using demographics and behavior. You can send messages to a group of devices that are subscribed to specific topics, or you can get as granular as a single device.

FCM can deliver messages instantly, or at a future time in the user's local time zone. You can send custom app data like setting priorities, sounds, and expiration dates, and also track custom conversion events.

The best thing about FCM is that there is hardly any coding involved! FCM is completely integrated with Firebase Analytics, giving you detailed engagement and conversion tracking.

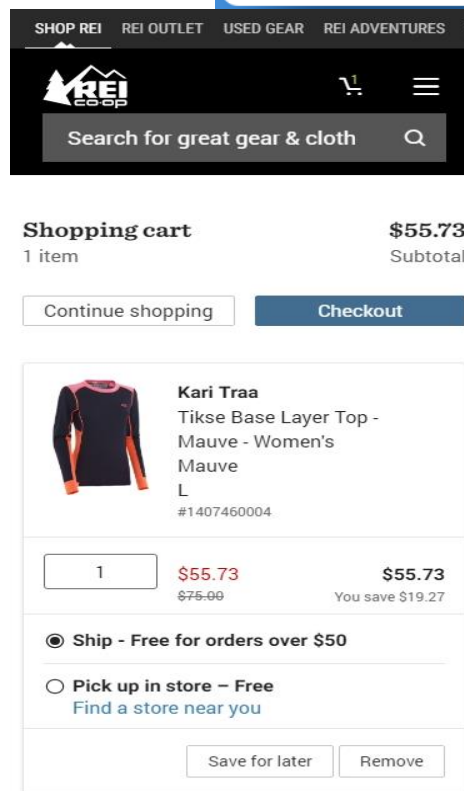
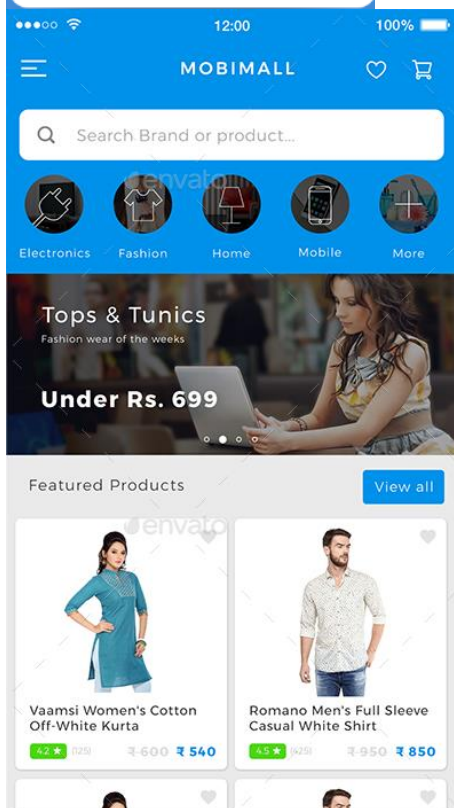
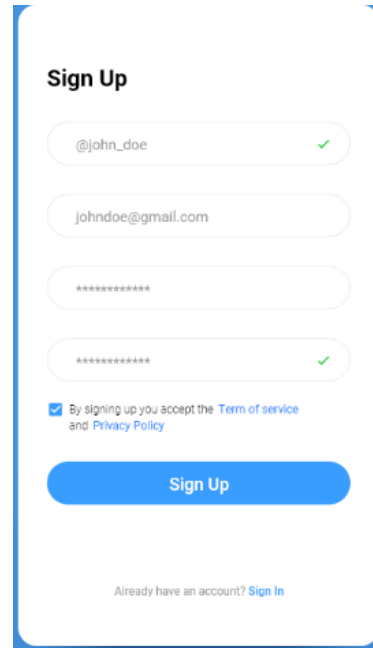
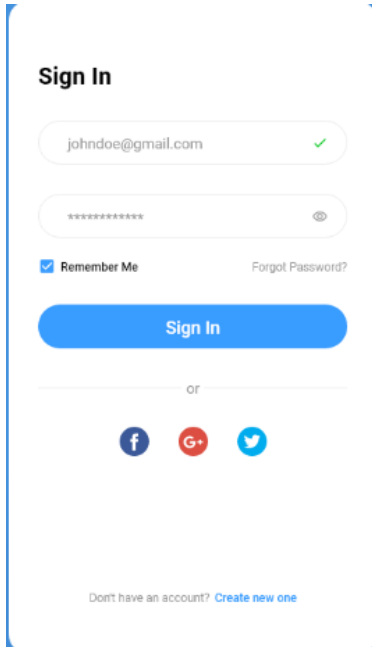


Firestore App Indexing:-

To get your app's content indexed by Google, use the same URLs in your app that you use on your website and verify that you own both your app and your website. Google Search crawls the links on your website and serves them in Search results. Then, users who've installed your app on their devices go directly to the content in your app when they click on a link.



Output / Result / Screenshot:-



Conclusion/Future Enhancement:-

The whole conclusion of this project is to sell the products in such a least price so that every-one can buy it without any tension.

With the help of this project we will try to sell the product as least price as possible for us.

The best thing about this project is that it going to help many of the poor people around us.

To accomplish this task we need number of technologies like the xml-to layout the app, sqlite to store the data in the phone locally.

from the admin panel the admin will be able to edit , add and many more operation.

References:-

Bit help from the internet to design the layout of the app using different layout methods.

