MINIPROJECT

(2021-22)

"DhanLaxmi"

Project Report

Institute of Engineering & Technology

Submitted By –

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Declaration

Where by declare that the work which is being presented in the Bachelor of technology . Project **"DhanLaxmi App"**, in partial fulfillment of the requirements for the award of the ***Bachelor of Technology*** in Computer Science and Engineering and submitted to the Department of Computer Engineering and Applications of GLA University , Mathura , is an authentic record of our own work carried und er the supervision of **Mr.Vinay Agarwal Sir , Assitant Professor, Dept. of CEA , GLA University.**

The contents of this project report , in full or in parts , have not been submitted to any other Institute or University for the award of any degree.

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Certificate

This is to certify that the project entitled "DhanLaxmi App", carried out in MiniProject – I Lab , is a bonafide work by Sagar Goyal, Tushar pal, Rohan Singh, Bharat Sharma and is submitted in partial fulfillment of the requirements for the award of the degree Bachelor of Technology (Computer Science & Engineering).

Signature of Supervisor:

Name of Supervisor : Mr.Vinay Agarwal

Date:

Department of Computer Engineering and Applications GLA University, 17 km. Stone NH#2, Mathura-Delhi Road, Chaumuha, Mathura – 281406 U.P (India)

ACKNOWLEDGEMENT

Presenting the ascribed project paper report in this very simple and official form, we would like to place my deep gratitude to GLA University for providing us the instructor Mr. Vinay Agrawal sir our technical trainer and supervisor.

He has been helping us since Day 1 in this project. He provided us with the roadmap, the basic guidelines explaining on how to work on the project. He has been conducting regular meeting to check the progress of the project and providing us with the resources related to the project. Without his help, we wouldn't have been able to complete this project.

And at last but not the least we would like to thank our dear parents for helping us To grab this opportunity to get trained and also my colleagues who helped me find resources during the training.

Thanking You

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ABSTRACT

In this project, we are creating an Hybrid application, basically a CryptoTrading App which we have named DhanLaxmi. This application will provide us a platform to buy and sell the Crypto Currencey and make profit. This Report is dealing with virtual currencies – their concept and applications. The Report starts with the description of different types of virtual currencies, first Bitcoin, then some other types of crypto currencies, followed by description of virtual currencies that are created by conversion of real–world currencies, and finally, virtual currencies based on different types of non–financial assets. The common characteristics of all types of virtual currencies and applications based on them is support for various types of financial transactions.

The analysis of the Bitcoin system includes its functional aspects, but also its weaknesses and problems. In addition to the Bitcoin and other popular systems using alternative virtual currencies for payment transactions, the Report also outlines some trends and current initiatives to use the concept of the public ledger – blockchain as support for validation and authorization of distributed, peer-to–peer financial transactions. Most of such current trends rely on use of the currently operational Bitcoin network and in that way they are directly vulnerable to the weaknesses and threats originating from that network.

Android App ecosystem is diverse and is changing people's life all over the world . Android users are expected to increase because of the advance changes of the operating system and the way it deals with compatibility with other mobile devices. Furthermore designing solutions for the problems that we may face in future is essential. Like this application definitely stands the need of students at any time at their finger tips without any barrier of p

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Chapter 1 Introduction

1.1 CONTEXT

This Hybrid Application “DhanLaxmi” has been submitted in partial fulfillment of their requirements for the award of the degree of Bachelor of Technology in Computer Science and Engineering at GLA University, Mathura supervised by Mr.Vinay Agarwal sir. This project has been completed approximately Two months and hasbeen executed in modules, meetings have been organized to check the progress of the work and for instructions and guidelines.

1.2 MOTIVATION

- 'It appears as though cryptos are here to stay and will inevitably play a part inshaping people’s perception of what money actually is'

First, note there are various types of cryptocurrencies, and for the purposes of this piece, I’ll focus on easily the most mentioned and used: Bitcoin (BTC) and Ether (ETH).Bitcoin was the very first blockchain – a financial one – created by an individual (or group, who knows) called Satoshi Nakamoto in 2008. Its value has exponentially increased to a ridiculous level: you may have seen pieces swirling around the Internet such as “if I had brought $100 of bitcoin back in 2010, I’d have over US$100 million now” or about Bitcoin’s first billionaires. An increasing number of retailers and internet sellers are beginning to accept Bitcoin as a method of payment.Without going into too much detail, while Ethereum is very similar to Bitcoin, its uses extend beyond the mere financial side of things such as mining, into the

provision of services on its own particular blockchain. Ethereum provides built-in software programming languages which can be used to write, for example, smart contracts that can be used for many purposes, including the transfer and mining of its own tradeable digital token, That is to say, their prices went utterly and completely ridiculously sky high. It became the absolutely wrong time to buy crypto. Because just before Christmas, the entire market utterly crashed, losing approximately 20% of its entire global market cap.It then bounced up. And then in mid-January, crypto exchanges again crashed, with prices in Ethereum for instance falling approximately 25%.So, the headlines. Regulators issuing “buyer beware” notices (certainly needed, but also because many central regulators struggle with the notion of regulating a decentralised technology). Investing in initial coin offerings (ICO’s) and in cryptocurrencies is highly speculative and basically you can lose all your money.And you can indeed. Of course, you can say the public shareholders of Lehman Brothers also did, but unquestionably cryptocurrency exchanges are far more volatile than the stock markets . But cryptocurrency is important and it is not going away, or be limited to 100 years as others may speculate: transactions are fast, digital, secure and worldwide, which in essence allow the maintenance of records without risk of data being pirated. Fraud is, actually, minimized . Also, as an aside, digital currency such as Bitcoin should not result in inflation. The total number of bitcoins which can ever be mined is limited to approximately 21 million, so there is no way the total amount of cash in the system can be increased by any central bank. Bitcoin itself is, by its nature, scarce… though one can certainly argue that crypto currencies themselves, are infinite as they can be generated by anyone.

1.3 OBJECTIVE

The main objective of this application is to create a Crypto Currency app named "DhanLaxmi" which will have a lot crypto currencies and we can sell and buy to make profit. A crypto currency (or "crypto") is a digital currency that can be **used to buy goods and services**, but uses an online ledger with strong cryptography to secure online transactions. Much of the interest in these unregulated currencies is to trade for profit, with speculators at times driving prices skyward.

1.4 EXISTING SYSTEM

In the present scenario, we are dealing with the manual searching of crypto from hundreds of other cryptos present in coingecko Crypto API. With the help of this application we are able to get the stats of a particular crypto coin. As this idea as already implemented here are the some snap how our application will look.

As soon as the user enters the app, there will be landing page containing the name of the app and then there will be a login /signup page . Then on the basis of certain keywords the app will fetch the results and the cryptos will bed is played as shown in the second screenshot. In this we will add a feature to watchlist the crypto or add to favourites as this will be helpful.

1.5 SOURCES

The source of our project (including all the project work , documentations and presentations) will is available at the following link

https://www.beta-labs.in/p/react-native.html

www.youtube.com

CHAPTER 2
SOFTWARE AND REQUIREMENT ANALYSIS

2.1 IMPACT OF CRYPTO IN DAILY LIFE

In the last few years, a craze for crypto currencies has gripped the world and these digital coins are starting to receive mainstream popularity. Some hail them as the future of commerce and personal finance while others regard them as nothing more than high-risk trading assets which will eventually collapse.Despite a lot of scepticism, it appears as though cryptos are here to stay and will inevitably play a part in shaping people's perception of what money actually is. Crypto currencies can be very hard to wrap your head around. They are entirely digital and the tokens, such as bitcoin, ether and XRP, are merely digitalrepresentations of the value of the currency. The coins are generated by computers solving complex mathematical equations, and for each time they solve one, they are rewarded in the form of coins. This process is called 'crypto mining' and for each time the computer solves an equation the user, or 'miner', is rewarded with coins. For many cryptocurrencies, a so-called 'block' is added to the blockchain. The blockchain is a system which logs all transactions made with cryptocurrencies and keeps growing as a block is added to it for every successful 'mining'. We can think of it as the backbone of the cryptocurrencies which base themselves on the system.

'It appears as though cryptos are here to stay and will inevitably play a part in shaping people's perception of what money actually is'

Although cryptocurrencies have been around for years, they are uncharted

territory for most people and, like most great innovations throughout history, it can take some time for people to warm up to the idea of using them. How can people be expected to convert their hard-earned money into a complex digital currency that some guy just decided to 'invent'? When I first heard aboutcryptos, I was quite suspicious of the whole concept of currencies not being linked to an economy or national bank and particularly because no one could provide me with a straight answer about what their value is based on. (By the way, there is no definite answer to that question, but sentiment and commitment from investors play large parts in determining the value).

As I've gradually started to understand them more, I have become more aware of the positive applications of blockchain technology and cryptocurrencies which I don't think are much talked about compared to the negative stuff floating around in the public sphere. To pull an example out of a hat, earlier this year diamond miner DeBeers created a tracking system for diamonds using blockchain technology to ensure that the stones they sell are not from conflict zones. Similarly, the software developer Poseidon has created a system using the crypto currency 'carbon credits' to make sure that a portion of the retail price of everyday items goes towards making up for the carbon emissions involved in creating the item.

'Consider the speed at which cryptocurrencies have travelled from obscure cyber invention to legitimate currency, it is plausible that their role in society will only increase in the years to come'

A bit of scepticism is only natural and sensible, but I think it is important to highlight the upsides of this innovation as well. Speaking as a person who still has a strong relationship to physical money it wouldn't be easy to suddenly make the switch, I don't intend to for now, but it is an aspect of future personal finance which could eventually prove beneficial.

As it becomes more and more common for children to have debit cards and relate to money as numbers on a screen rather than notes and coins in a

piggybank, I can’t help but wonder about things like, 'Will the next generation of adults receive salary in the form of cryptos?' or 'Will cash merely be a concept and services are currently in development to educate children about the uses of cryptocurrencies. Pigzbe is one such app.

2.2 PROBLEM STATEMENT

“Dhanlaxmi” is an hybrid Application which will allow the users to search any published crypto using either crypto name or any other keyword related to the crypto. Actually this app is connected to the coin gecko Crypto API and every time the user searches for the crypto, the crypto is searched on the API and the crypto name and stats about that coin are reverted back to the user’s screen.

Along the side, for the users a library space is being provided for them to store the cryptos theylike in the “Favourites Section(watchlist)”. As a help to the users. The profile of each user is created and can beupdated anytime as per the requirements. One another feature that our app holds is as soon as anewcryptois published,itis putupon the coingecko CryptoAPIandsince wehave directlyconnectedto theAPI itcanalsobefound onour app withoutanymodificationsbythecreators.
mentioned in history classes?'. The transition has already started as several app.

2.3 HARDWARE AND SOFTWARE REQUIREMENTS

Hardware Requirement

1.5 Processor:	Any Phone Processor
1.6 Operating System :	Android, IOS
1.7 RAM:	4 GB(or higher)
1.8 Hard disk :	50+MB

Software Requirement

1.9	Software used :	Visual studio, Expo cli
1.10	Technology Used:	React Native, expo-cli
1.11	Language used :	Javascript
1.12	Database :	Firebase
1.13	User Interface Design	:Android, ios application

2.4 MODULES AND FUNCTIONALITIES

- **Splash Screen**: The first screen with which the user interacts will be this screen containing the logo and the app name .This will disappear within 5 seconds after the app is displayed.

- **Login Screen**: This screen is for those users who have already registered themselves on the app and have a username and a password. There is also a way on this page for the new user storage themselves which will take them to the registration page.

- **Registration Screen:** This screen is solely designed for the new users of the app who are willing to register themselves. This page takes input of the various details of the user and stores it in the database, later helping the user to login into the account with credentials they have provided.

- **WatchList:** Initially the watchlist is empty, but when the users search for a crypto and like it then one can add it to the watchlist section. This place is a user's personal space to store any crypto he likes or want to mark.

- **Home Page Screen:** This is the screen for every user after login in to the app successfully in this screen user can see their watchlist and trending coins and some global sats regarding cryptos.

- **Profile Screen**: This screen will contain allthe user details that the user entered while creating the account on the app. The user can update and make changes to all this information as desired.

- **Coin Screen:** In this screen user can see the graph price and stats of crypto that he selected and can can go to buy or sell screen form this screen.

- **Market Screen:** In this screen user can watch over 100+ top crypto currencies.

- **Exhanages Screen:** In this screen user can watch over 100+ top crypto Exchanges.

- **About Screen**: This screen is about the Application.

- **Portfolio Screen:** In this screen user can see theircurrent holdings**.**

- **Buy Screen:** From this screen user can buy theirfavourite crypto.

- **Sell Screen:** From this screen user can sell theirholdings.

- **Add Money**: From this screen user can add funds

- **Admin Panel**: From this screen admin can update the databse of app.

- **Exchange Screen**: This screen will show the top 100 exchanges of the world.

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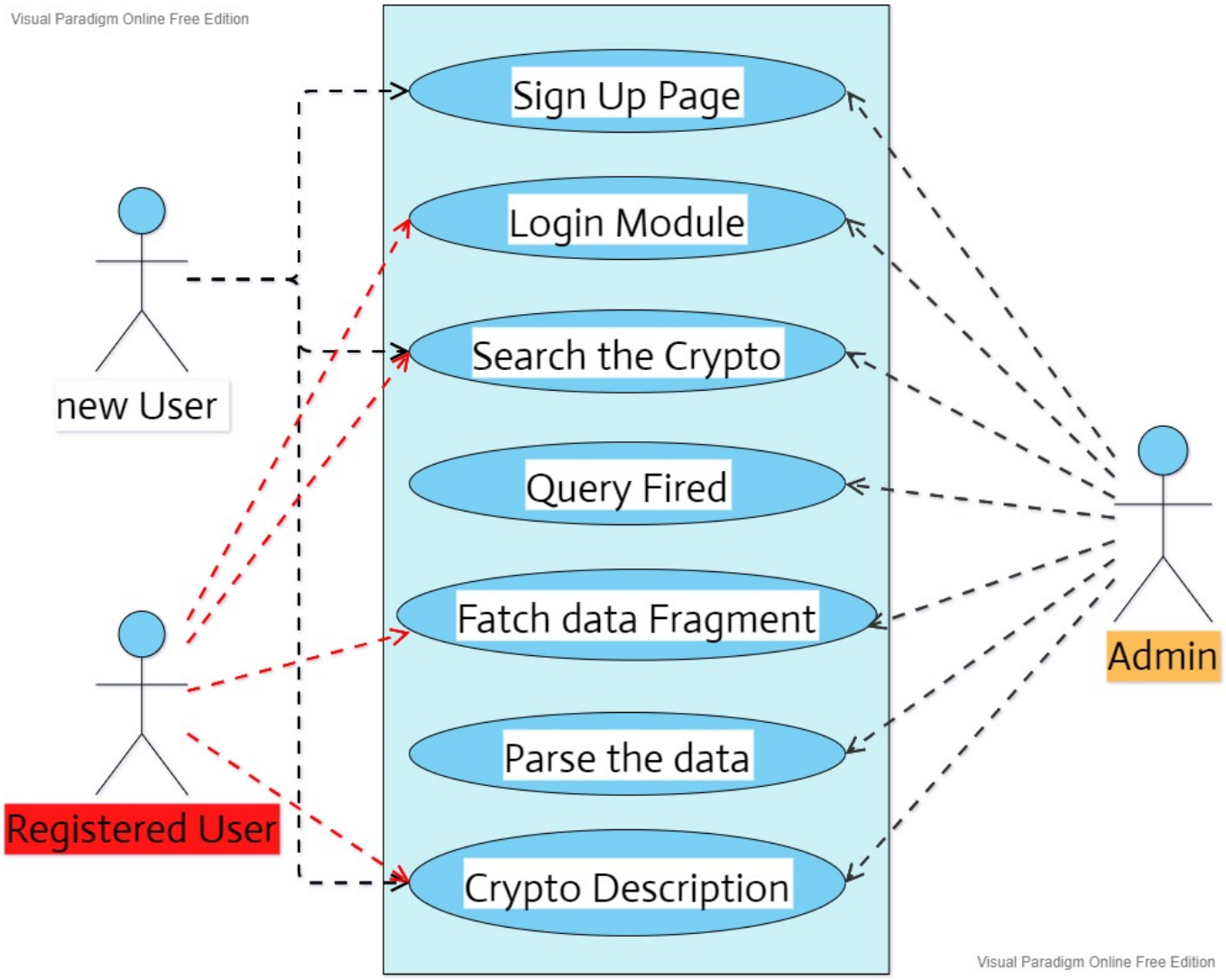
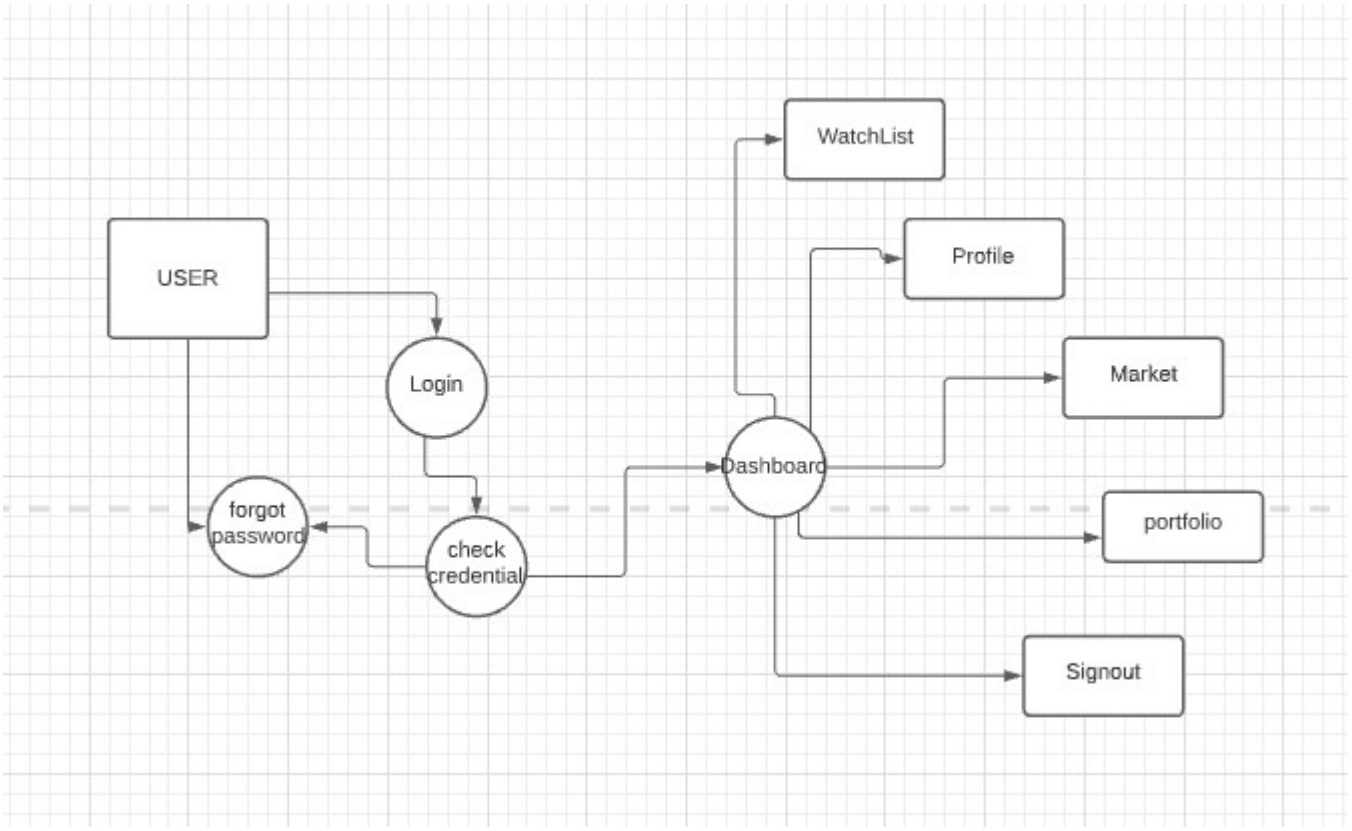
CHAPTER-3

SOFTWARE DESIGN

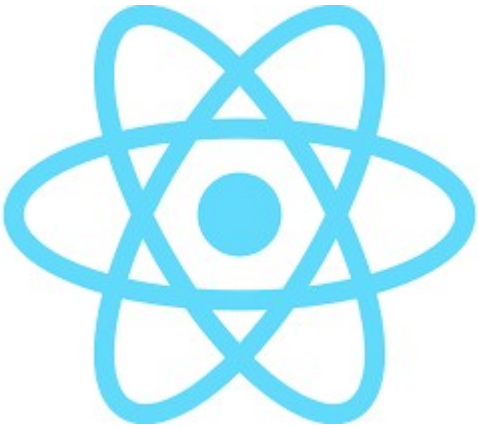
3.1 USE-CASEDIAGRAM:



3.1 DATA FLOW DIAGRAM:



CHAPTER 4
TECHNOLOGY USED



4.1 TECHNOLOGY USED - REACT NATIVE

React Native is an open-source UI software framework created by Meta Platforms, Inc. It is used to develop applications for Android, Android TV, iOS, macOS, tvOS,Web, Windows and UWP] by enabling developers to use the React framework along with native platform capabilities. It is also being used to develop virtual reality applications at Oculus. But first it would be great to see the three different type of Hybrid Apps:-

- Native Apps: An executable program coded in the machine language of the hardware platform it is running in. Native applications are compiled into the machine language of that CPU . For example, Windows and Mac executable apps are in x86 machine language, while mobile apps are ARM based. Native apps are the most common. They' recoded in a specific language like Swift for iOS or Java for Android. A popular example is WhatsApp.

Web Apps: are accessed via the internet browser and will adapt to whichever device you're viewing them on. They are not native to a particular system, and don't need to be downloaded or installed. Due to their responsive nature, they do indeed look and functional to like mobile apps—and this is where the confusion arises.

Hybrid Apps: Hybrid apps are deployed in a native container that uses a mobile Web View object . When the app is used , this object displays web content thanks to the use of web technologies (CSS, JavaScript, HTML, HTML5).It is in fact displaying web pages from a desktop website that are adapted to a Web View display. The web content can either be displayed as soon as the app is opened or for certain parts of the app only i.e. for the purchase funnel. In order to access a device 's hardware features (accelerometer , camera , contacts…) for which the native apps are installed , it is possible to include native elements of each platform 's user interfaces (iOS, Android): native code will be used to access the specific features in order to create a seamless user experience. Hybrid apps can also rely on platforms that offer JavaScript APIs if those functionalities are called within a WebView

4.2 TOOLS AND LANGUAGES

Tools used to build the Android App are:-

Visual Studio: Visual Studio is an environment that help us create andedit Android applications . It is the official IDE for Android App Development . It hasintelliJ ' s powerful code editor and developer tools and various featuresthat enhance productivity while developing apps.

EXPO CLI: Expo CLI is a command line app that is the main interface between a developer and Expo tools. You'll use it for a variety of tasks such as:

- Creating new projects
- Developing your app: running the project server, viewing logs, opening your app in a simulator
- Publishing your app JavaScript and other assets and managing releasing them as updates
- Building binaries (`apk` and `ipa` files) to be uploaded to the App Store and Play Store
- Managing Apple Credentials and Google Keystores

You may use the CLI in your terminal or use the web based interface (it opens automatically by default, or you can press d from the CLI to open it on demand). The web interface enables you to use some of the most often used features from a quick-to-use graphical interface.

LANAGUAGE USED JAVASCRIPT

JavaScript, often abbreviated as JS, is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled and multi-paradigm. It has dynamic typing, prototype-based object-orientation and first-class functions

4.3 BASIC TERMINOLOGY

Layout : Layout is the parent of view. It arranges all the views in a propermanner on the screen.

Activity: An activity can be referred as your device's screen which you see. User can place UI elements in any order in the created window of user 's choice.

View: A view is an UI which occupies rectangular area on the screen to draw and handle user events.

Emulator: An emulator is an Android virtual device through which you can select the target Android version or platform to run and test your developed application.

API : An application programming interface is a connection between computers or between computer programs. It is a type of software interface, offering a service to other pieces of software.

Implicit intent: It does not name a specific component, but instead declare a general action to perform , which allows a component from another app to handle it.

Explicit Intent: It specifies the component to start by name. You'll typically use an explicit intent to start a component in your own app, because you know the class name of the activity or service you want to start.

APK: Short for "Android application package ."The extension used in Android app installation files(e.g.,app.apk).Similar in nature to an EXE file on Windows.

Action Bar: The action bar is an important design element, usually at the top of each screen in an app that provides a consistent familiar look between Android apps. It is used to provide better user interaction and experience by supporting easy navigation throught absand drop-downlists.

Navigation bar: Android Navigation Drawer is a sliding left menu that is used to display the important links in the application. Navigation drawer makes it easy to navigate to and for between those links. It's not visible by default and it needs to opened either by sliding from left or clicking its icon in the Action Bar.

Fragment: A Fragment represents a behavior or a portion of user interface in aFragment Activity . You can combine multiple fragments in a single activity to build a multi-pane UI and re use a fragment multiple

Firebase is a Backend-as-a-Service (Baas). It provides developers with a variety of toolsand services to help them develop quality apps, grow their userbase,and earn profit.It is built on Google's infrastructure. Firebase is categorized as a NoSQL database program,which stores data in JSON-like documents. Firebase has three core services: a real-time database, user authentication and hosting. With the Firebase iOS SDK, you can use the seservices to create apps without writing any server code.

CHAPTER 5

IMPLEMENTATION AND USERINTERFACE

Creating an app concept design with screen sketches and functional flow diagrams is the best way to communicate your vision to the mobile app developer. Making the concept clear to the developer is probably the most important factor in successful mobile app development. Yet it is one of the most common problems or obstacles in a mobile app development out sourcing project.

No matter what the marketing and profit goals are or if you are outsourcing an app for your personal use, you need to fully design and document the app concept if you expect a programmer to make your vision a reality. Developers are not mind readers and even descriptions given during conversations can be very fleeting or interpreted differently. Fully documenting your concept, therefore, leaves little to chance. The two most important things to do are: A) make a comprehensive description of how the app works and what it does (functionality) and B) create a comprehensive description of what the user sees and does (look and feel).

5.1 Implementation of the Dhanlaxmi:

Implementation of Dhanlaxmi is taken place in various phases .Firstly we buildthe login interface then Navigation drawer i.e. make fragment for each of the list it emusingth e Navigation view and the make various layout for the supporting features andconnect the app with the geekocoin API for fetch the required crypto. Andfinally we parse the Jason object to get the data in the required format and then display the result.

5.2 Step to be followed to develop the app:

Firstly we create the splash screen with animated text using react native:
After that we create login phase which comprises of various phases that are mentioned below:

Login Page: allows user to login into the app if the user is existing one
Register Page: If the user is new to our app then firstlyhe/she have to register themselves on the app.
For authenticating the user we have used firebase authentication.

Now , we are going to create Navigation drawer for that purpose we have used following functionality of android:

6 Our Menu items are:

6.1 Dashboard

6.2 Watchlist

6.3 Buy and sell

6.4 Portfolio tracker

7 Now we have created various activities like Crypto List , Crypto Description and many more.

- In this step we connect our app with the coin geckoCRYPTO API using axios.
- After that we parse the JSON object that we have received as a response for our query to get the data in the standard form.
- Now we add at a(that we have received from Google API) to the crypto description activity. In the description Activity there are various functionality.

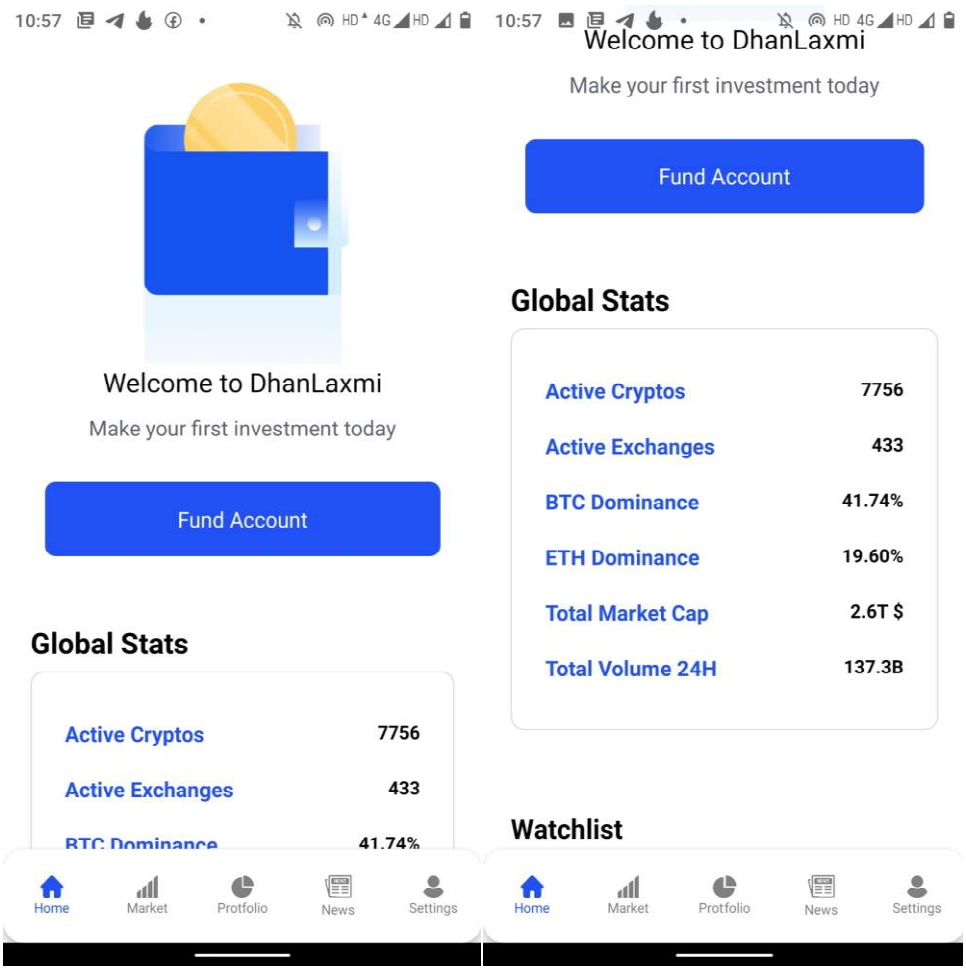
Step to be followed by the user

- Firstly, we have build splash activity to start the application.

- Then ,we have the Log in activity which consists of following steps
    - Register : for new User
    - Log in : For existing as well as new user

- We authenticate and store the user information from the Firebase authentication.
- After that , we made a Drawer layout of our Dhanlaxmi app which includes various functionality
    - Profile Fragment: To check the profile and up date the database.
    - Dashboard Fragment: Show the crypto on the general basis and it is open by default.
    - watchlist: To see the watch list crypto that you have added or you found interesting.
    - Sign-out Fragment: Remove/logout you from the app.
- In Dashboard fragment we also include the searchbar in which the user can search for the crypto so their interest.
- After that list of crypto according to your search will appear
- Select the crypto according to your choice.
- Thenthedescriptionpageofthecryptowillappear.Itcomprisesofthefollowing things:
    - Market supply
    - Volume
    - Current price
    - Buy and sell
    - Small description
- If you want to add the crypto into watchlist then in the description page Add to Favourites option is also given. You can see the cryptos that are added in the watchlist into navigation Drawer menu item watchlist.
- Now you can enjoy the read ingofy our favourite crypto.

5.3 User Interface


10:57
Welcome to DhanLaxmi
Make your first investment today
Fund Account
Global Stats
Active Cryptos 7756
Active Exchanges 433
BTC Dominance 41.74%
Home
Market
Protfolio
News
Settings
10:57
Welcome to DhanLaxmi
Make your first investment today
Fund Account
Global Stats
Active Cryptos 7756
Active Exchanges 433
BTC Dominance 41.74%
ETH Dominance 19.60%
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Total Volume 24H 137.3B
Watchlist
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Market
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News
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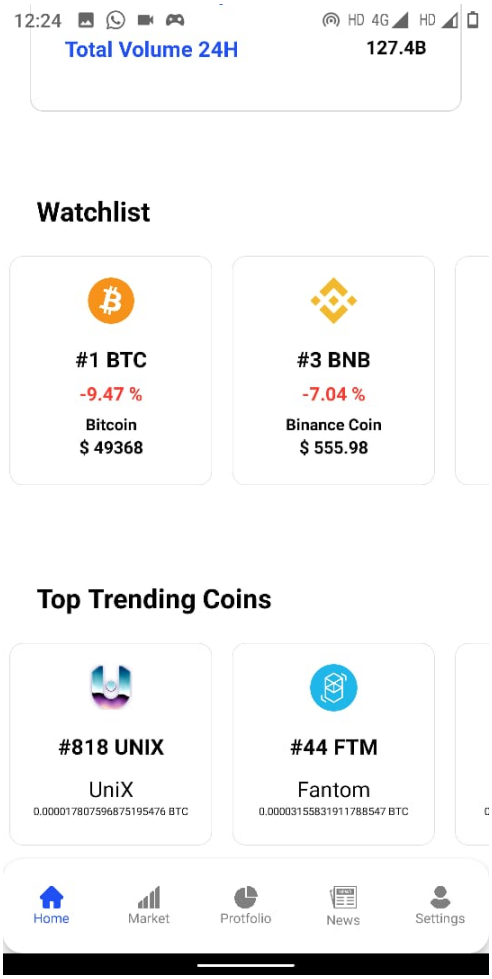

Fig. 1 Home Screen

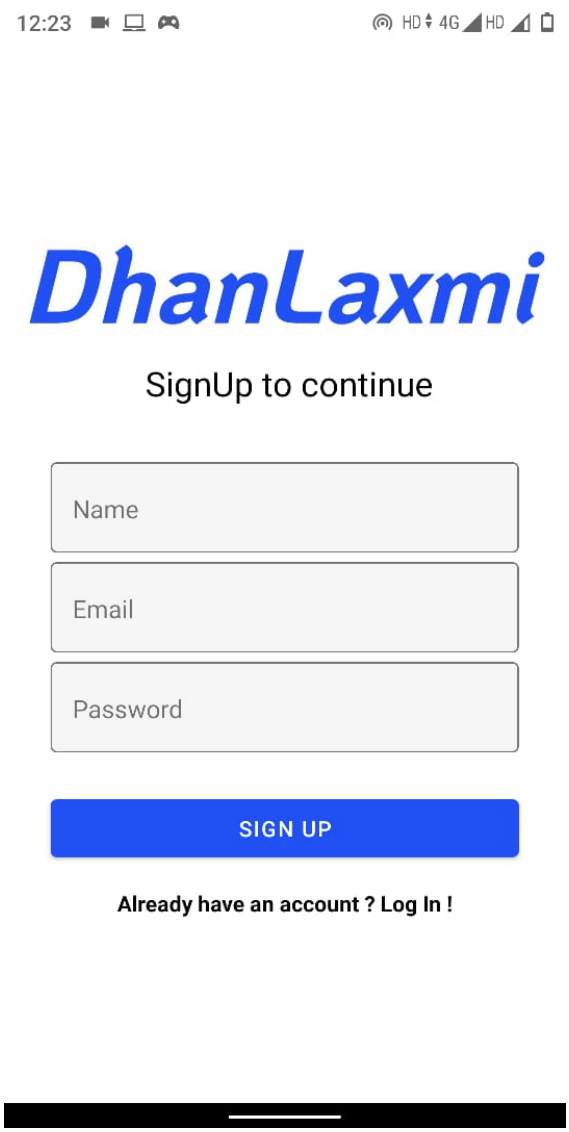

Fig. 2 RegisterPage

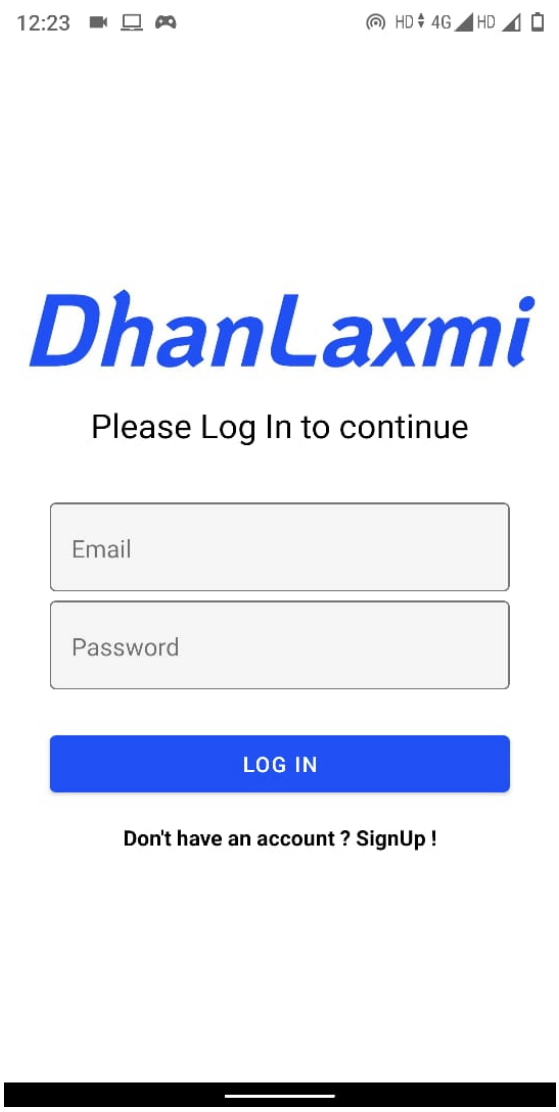

Fig. 3 login page

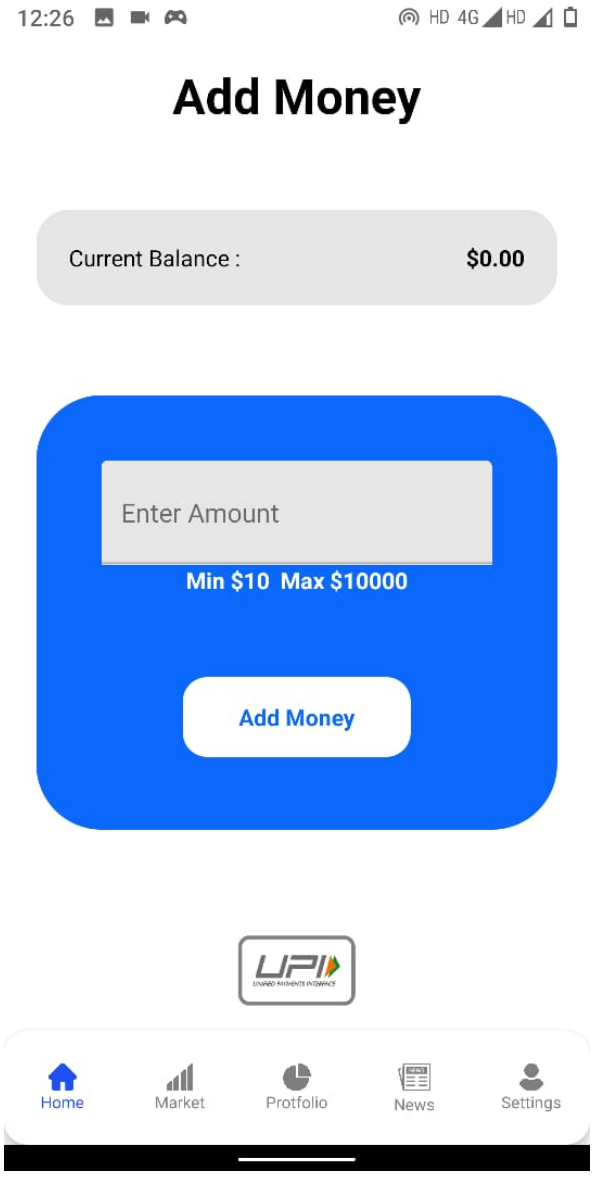

Fig. 4 Add Money

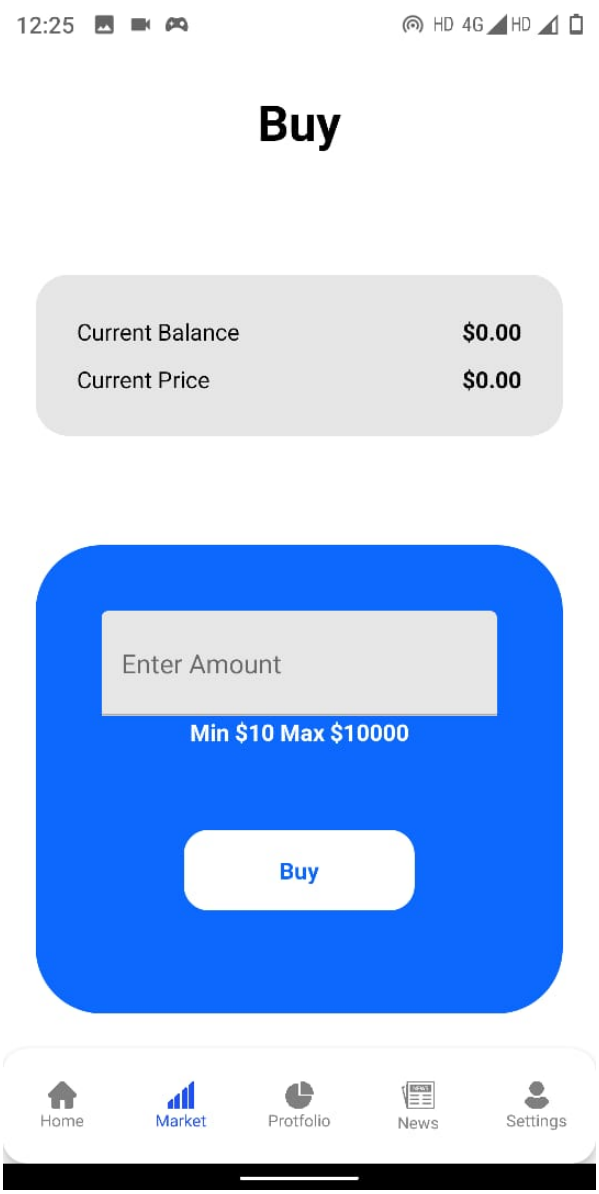
12:25
HD 4G HD
Buy
Current Balance
$0.00
Current Price
$0.00
Enter Amount
Min $10 Max $10000
Buy
Home
Market
Protfolio
News
Settings

Fig. 5 Buy

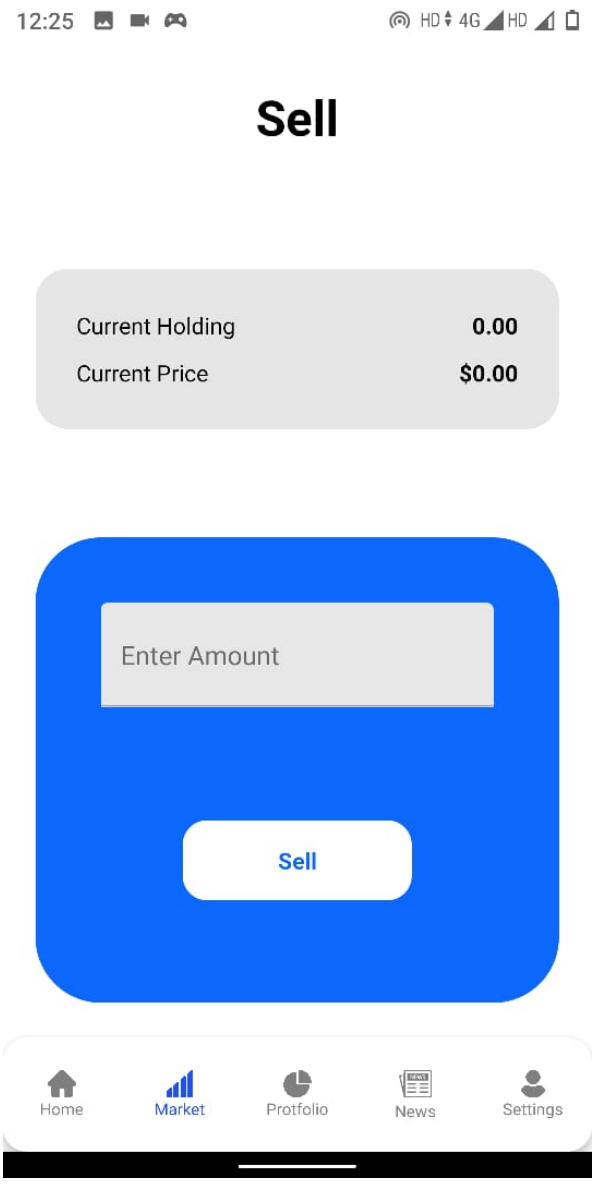
12:25
HD 4G HD
Sell
Current Holding
0.00
Current Price
$0.00
Enter Amount
Sell
Home
Market
Protfolio
News
Settings

Fig. 6 Sell

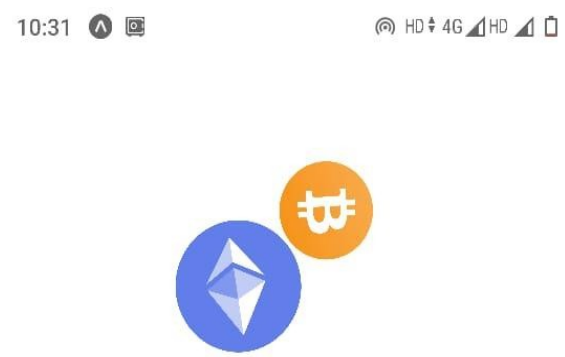

Fig. 7 Loader

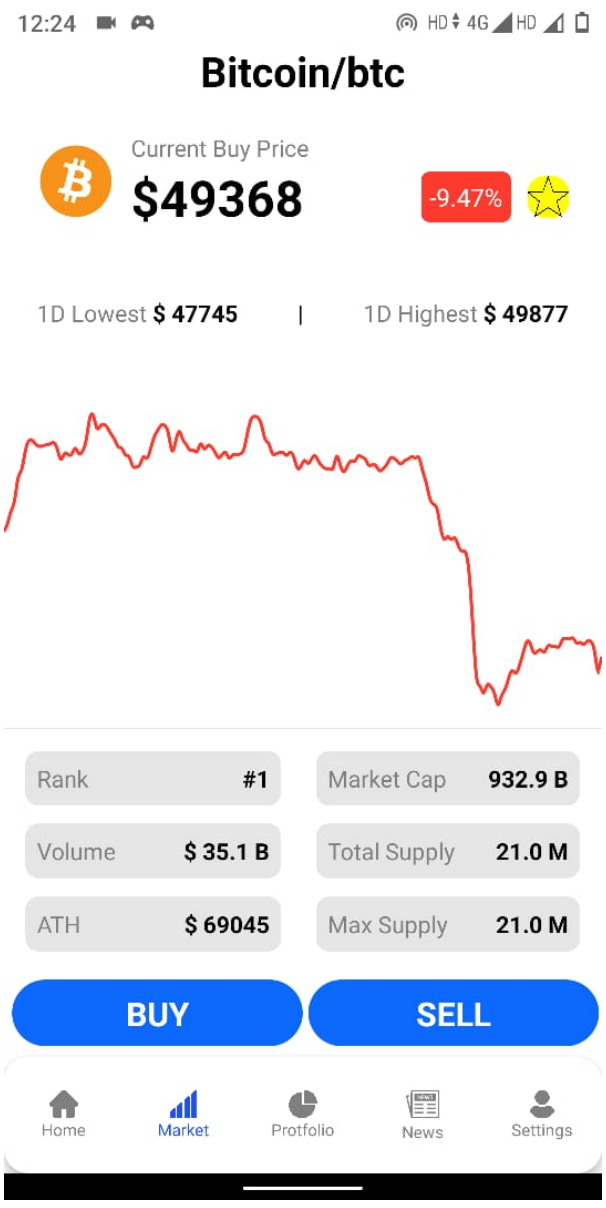

Fig. 8 Coin Description

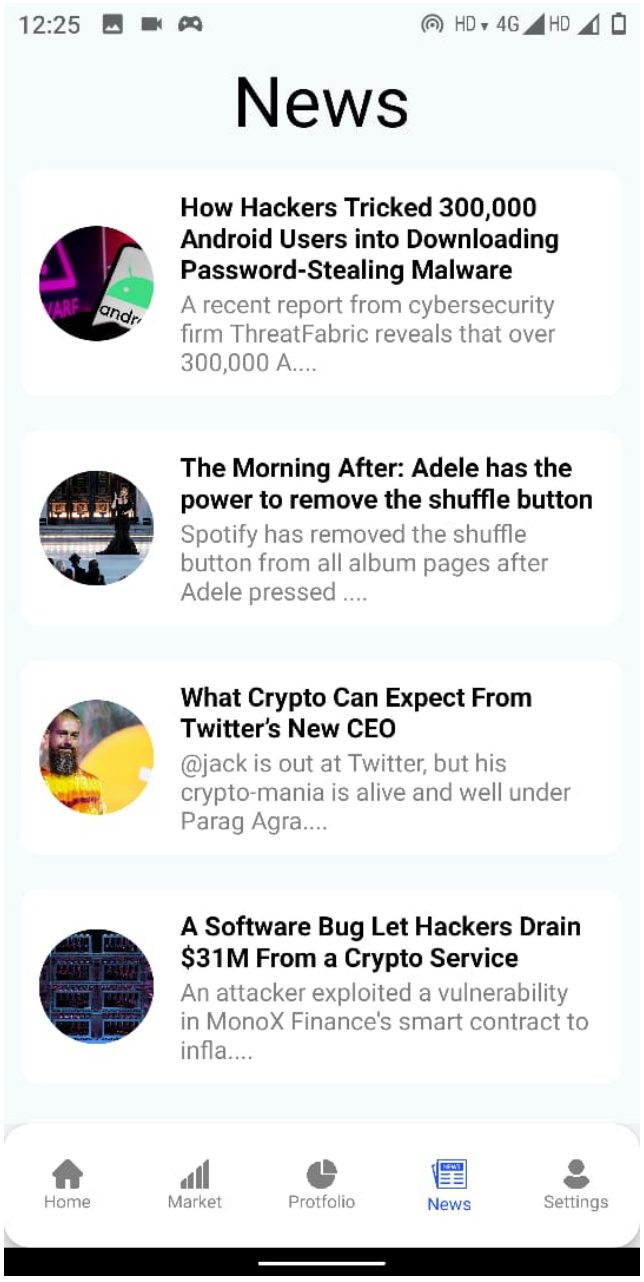
12:25
HD 4G HD
News
How Hackers Tricked 300,000 Android Users into Downloading Password-Stealing Malware
A recent report from cybersecurity firm ThreatFabric reveals that over 300,000 A....
The Morning After: Adele has the power to remove the shuffle button
Spotify has removed the shuffle button from all album pages after Adele pressed ....
What Crypto Can Expect From Twitter's New CEO
@jack is out at Twitter, but his crypto-mania is alive and well under Parag Agra....
A Software Bug Let Hackers Drain $31M From a Crypto Service
An attacker exploited a vulnerability in MonoX Finance's smart contract to infla....
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Fig. 9 News

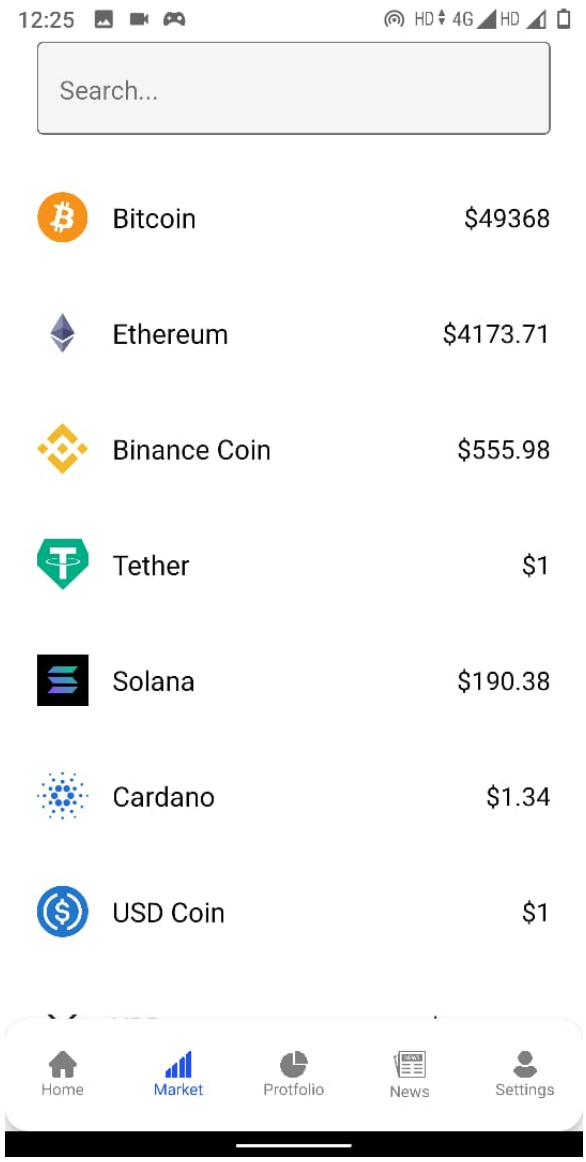

Fig. 10 Market

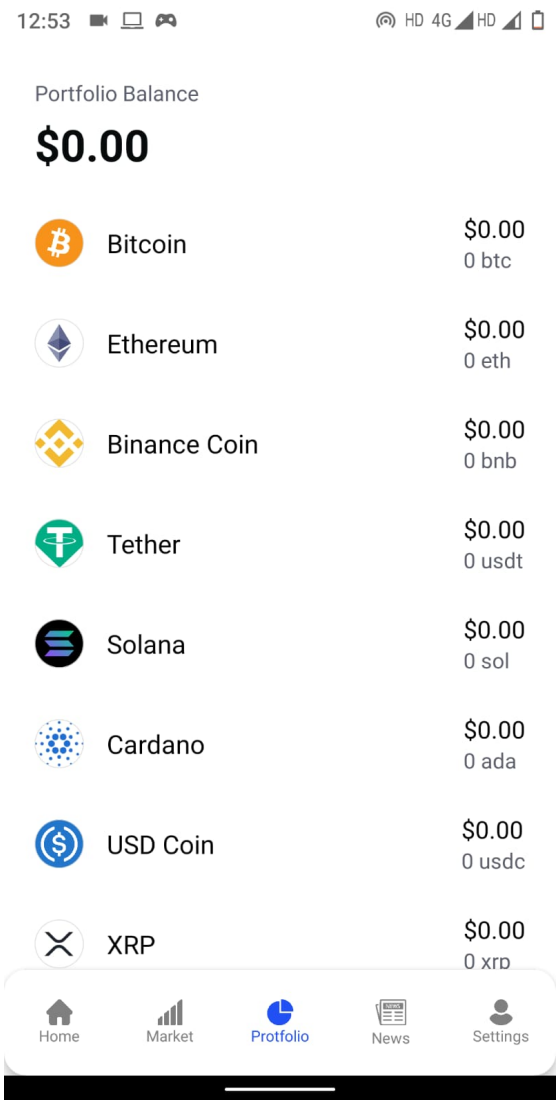

Fig. 11 Portfolio


10:58
DhanLaxmi
The intrest of people in Cryptos is increasing day by day and right now India has the largest number of crypto owners in the world.
Cryptocurrency is basically a digital currency in which transactions are verified and records maintained by a decentralized system using cryptography, rather than by a centralized authority. I have made an application named DhanLaxmi. DhanLaxmi is a user friendly mobile application by which a user can take a watch on over 100+
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Fig. 12 About

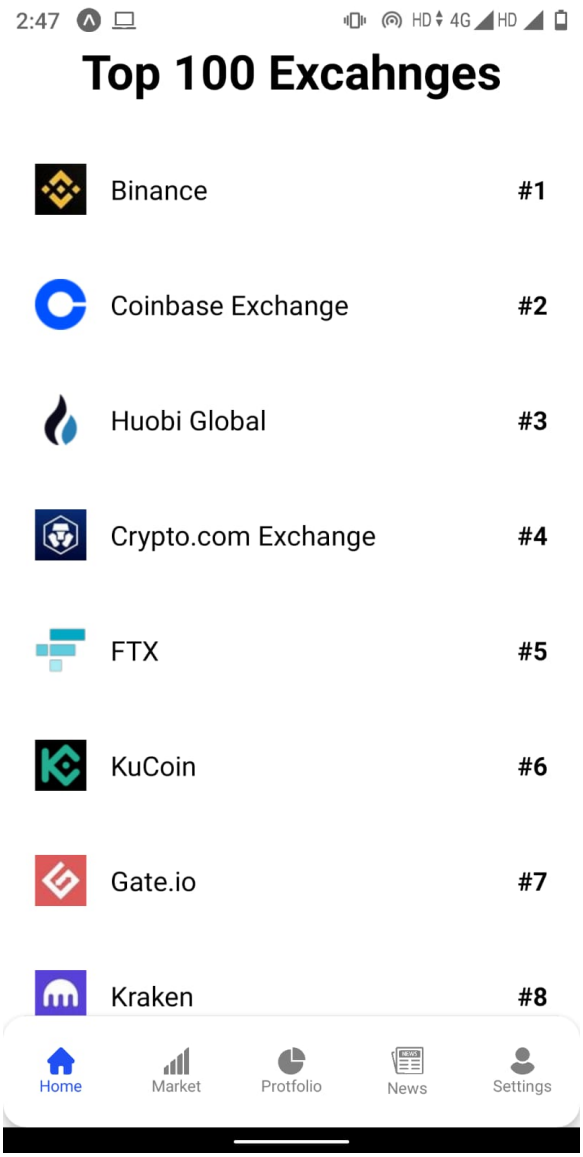

Fig. 12 Exchanges

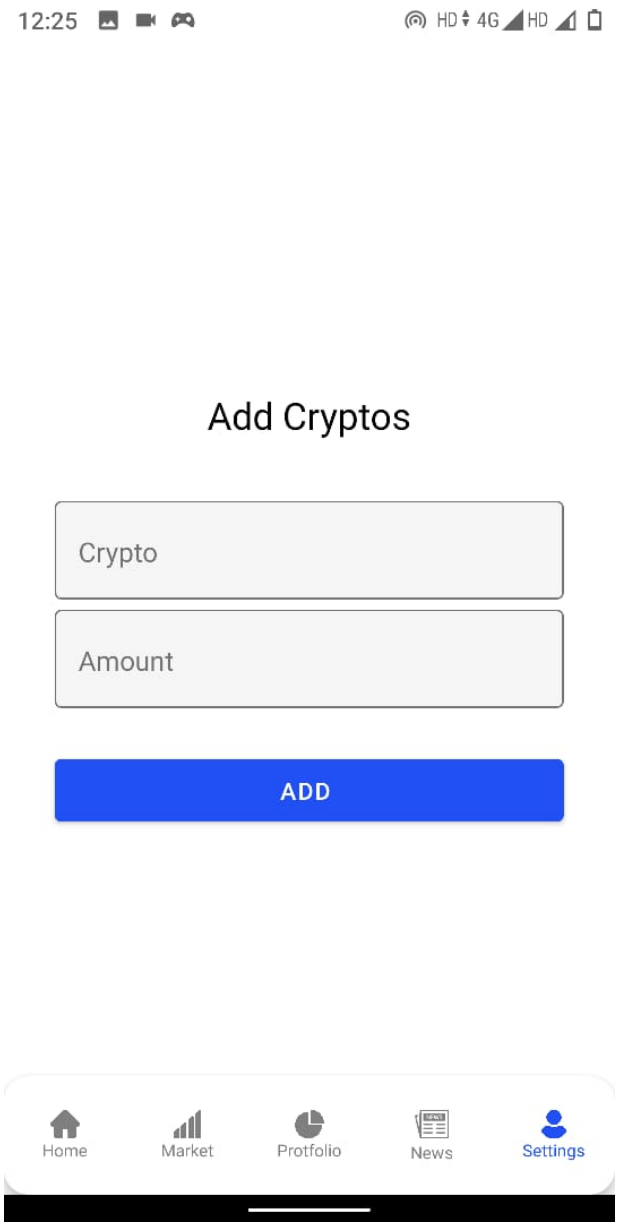

Fig.13 Admin Panel

Chapter 6
TESTING

Once source code has been generated, software must be tested to uncover as many errors as possible before delivery. It is very important to work the system successfully and achieve high quality of software. Testing include designing a series of test cases that have a high likelihood of finding errors by applying software- testing techniques.

System testing makes logical assumptions that if all the parts of the system are correct, the goal will be successfully achieved. The system should be checked logically. Validations and cross check should bethere . Avoid duplications of record that cause redundancy of data.

In other Words, Testing is the process of evaluating a system or its component(s) with the intent to find whether it satisfies the specified requirements or not. It isexecuting a system in order to identify any gaps , errors , or missing requirements in contrary to the actual requirements.

The Android framework includes an integrated testing framework that helps you test all aspects of your application and the SDK tools include tools for setting up and running test applications . Whether you are working in Eclipse with ADT or working from the command line, the SDK tools help you setup and run your tests with in an emulator or the device you are targeting.

There are different types of testing some of them are listed below:

6.2 Installation Testing:

There are two types of apps on an Android device i.e. ,Pre- installed applications and the applications which are installed later by the user.

For both of the above , installation testing is carried out by our teammates . It is ensuring smooth installation of the application with out ending up in errors , partial installation etc.

User testing is the process through which the interface and functions of a website, app, product,or service are tested by real users who perform specific tasks in realistic conditions. The purpose of this process is to evaluate the usability of that website or app and to decide whether the product is ready to be launched for real users.

This app was tested by our team mates and friends who are using different mobile phones (and having different android version) also tested on different emulator to check its performance and it seems to be working fine and users of this app are satisfied with thefacilities and performance of the app and like the way how the app is worked.

6.2 Performance Testing

In this type of testing we have checked the performances of our application under some p eculiar condition are checked . Those conditions include:

- Low memory in the device.
- The battery in extremely at a low level.
- Poor / Bad network reception.

Performance is basically tested from 2 ends, application end, and the application server end. Our app is also performing well in this phase of testing as well. And we are getting positive feedback from user of our app.

6.3 Compability Testing

This application was tested and used on different devices like Apple IPhone, Pixel. The application worked fine and is stable. The application worked fine in portrait mode and there isn't any problem with compatibility.

On all types of testing (that we have performed above) our performing well on our app i.e. Dhanlaxmi.

6.4 Testing Table

Test cases	Description	Expected Outcome	Result
1	Splash Screen	Should display splash screen with App Logo	Pass
2	Register Screen	Should display register activity where you need to fill the required details	Pass

3	Login Screen	Should display login screen And ask for your credentials.	Pass
5	Buy and Sell	You can buy and sell crypto	**pass**
6	View Favorites	Should display the Favourite activity in watchlist	Pass
7	Setting	Should display the settings regarding app and profile	Pass
8	View Description Crypto	Display the live charts and stats Of the selected crypto	Pass

9	Search bar	Should give the details of the cryptos that you have searched	Pass
10	Add to watchlist	Should add the selected crypto intothe watchlist	Pass
11	Clear Favourites	Should remove the selected cryptofrom the favourites	Pass
12	News	Should display the trending news about cryptos	Pass

13	Trending Coins	Should add the trending coins of the worls	Pass
14	Stats	Should display the global stats regarding crypto on the home page.	Pass
15	Exchange Screen	Should display the top exchanges all over the world	Pass
16	Logout	Sign out you from the app	Pass

CHAPTER-7

CONCLUSION:-

Proposed Dhanlaxmi App is an Hybrid application that will allow users to search for cryptos by name. This application takes in a user input and searches the Cryptos with the user input and gets a list of listed cryptos based on the users search query. Search result screen will contain a list of crypto with following details: current stats , total volume , ranking, rating Price of the Crypto. To get the information of the particular crypto user can click upon the crypto from the list and then will be taken to the new tab where description and other information related to the crypto will be available .Users can also add the crypto to the favourites (watchlist).

In future we will add Buy and Sell option too for users to hold and sell their favourite crypto and it will also have a Alerts for selected cryptos.

GitHub Reop :- https://github.com/thesagargoyal/DhanLaxmi