

# Fruit Sabzi Mandi App

## Report

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# **Chapter 1**

## **1.1 Abstract**

The main aim of this project to facilitate farmers to get full reward of their efforts towards crops production. Because farmer wait for almost half of year to get product in the market. Every city of Pakistan have Mandi where deals happens between farmer and buyer. This deals happens in commission shops which is responsible for deal between farmer and buyer.

The problem was that farmer and buyer have to contact different commission shops all over Pakistan to maximize the profit by comparing yesterday deals. This application will solve the real world problem. Commission shops on daily basis all over the Pakistan will update deals between farmer and buyer. Farmer and buyer can view yesterday deals.

## **1.2 Acknowledgment**

Before starting this project i was completely blank. But Sir Jaleel motivated me by sharing his experience and explaining core of Android Applications.I am very Thankful to Sir Jaleel to share such amazing knowledge.The most important part is that Sir Jaleel is available at any time to me to discuss any kind of problems i was facing.

## **1.3 Introduction**

Fruit Sabzi Mandi Application which solves the real world problem.This application targets two kind of users.One type is farmer and buyer.Second type is commission shops which is responsible for deals between farmer and buyer.Before this application commission shops daily activities was very hectic because farmer and buyer contacted them for to know about yesterday deals to plan for next day according to it.

As a farmer you are completely blank because you have no knowledge of prices all over the Pakistan except nearest markets.Buyer was also facing same kind of problem.From Fruit Sabzi Mandi Application,now they can easily view all over Pakistan market deals at just one touch away.Life for commission shops is also get easier because they will just update values in application and will be viewed all over the Pakistan.

### 1.3.1 Overview of project

This report is about Fruit Sabzi Mandi Application development. Application which is available for android users. Because this application required android platform for its functionality. Android platform is now most popular in the world.

Mobile operating systems' market share worldwide from January 2012 to June 2021

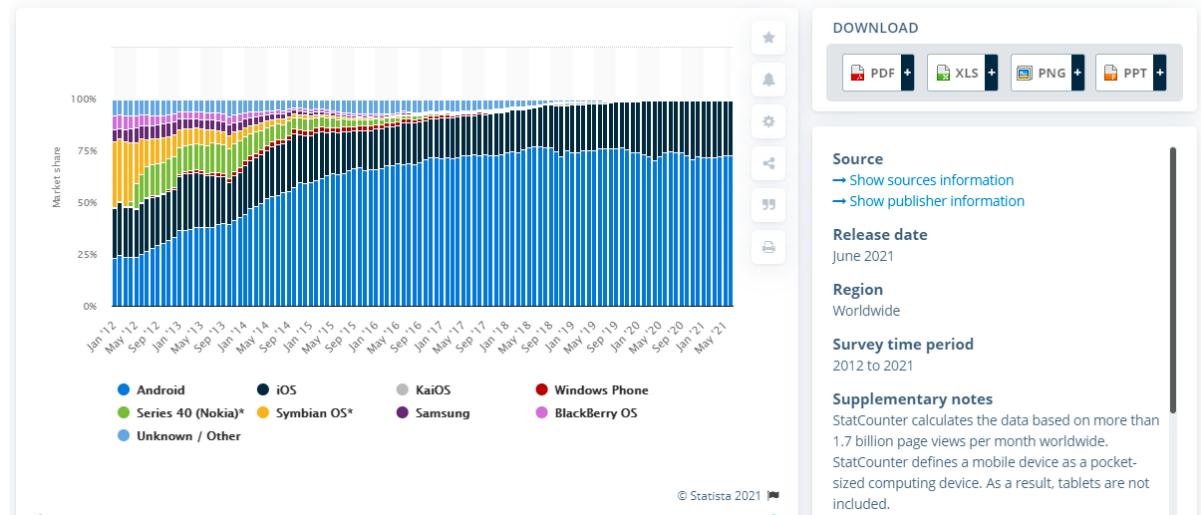


Figure 1.1: Different Os share in market

### 1.3.2 Similar solutions

This problem is unique problem because in play store many other apps are available but missing the actual market which make deals between farmer and buyer. So there is no similar solution is available in the market.

## 1.4 Methodology

There are many models are available in Software Engineering for development. But i followed agile model. One of main reason i followed agile model was that it improves the customers satisfaction and always ready for change.



**Fig. Agile Model**

Figure 1.2: Different Os share in market

#### **1.4.1 Requirements gathering**

For requirements gathering, meeting with end users like farmer, buyer and commission shops. I collected required features for application. I used paper prototypes to show my end-users how application will look and functionalities. After all meetings with stakeholders, Fruit sabzi mandi application functional and non-functional requirements were refined to implemented.

#### **1.4.2 Functional requirements**

- Commission shop user should be Login to application
- Commission shop user should be Sign-up to application
- Commission shop user should be able to upload daily deals
- Commission shop user should be able to delete previous deals
- Commission shop user should be able to update daily deals
- Farmer and buyer users should be able to view deals all over Pakistan
- Farmer and buyer users should be able to view information of commission of Pakistan
- For all users there should be option for Urdu Language

#### **1.4.3 Non-Functional requirements**

- Application should be responsive
- Application should be secure
- Application should provide proper error messages
- Application should available at any time
- Application should not hanged
- Application should provide information up-to date

## 1.5 UML diagram for application

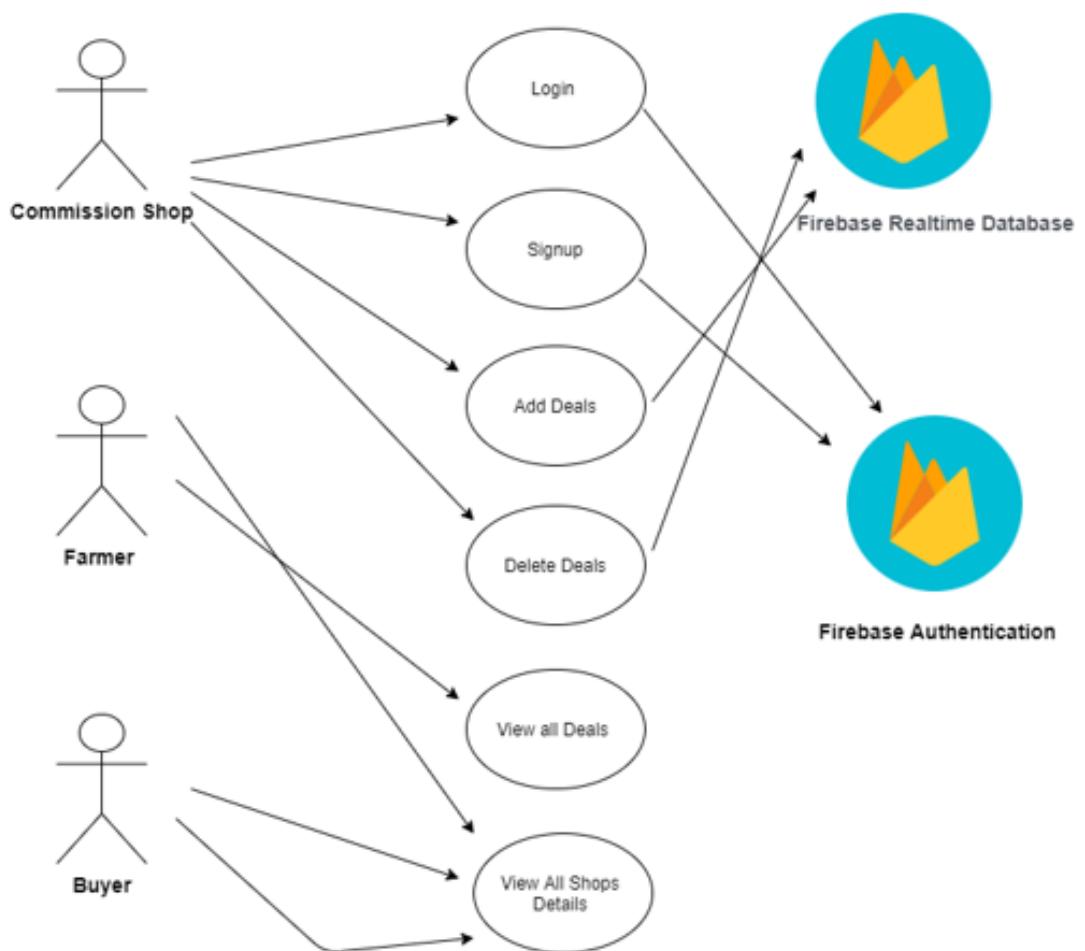


Figure 1.3: UML Diagram

## 1.6 User Interface Design (UI)

### 1.6.1 Intro Screen with English Locale

Intro screen has welcome message, buttons for commission shop and farmer dashboard. There is option for change language two button English and Urdu.

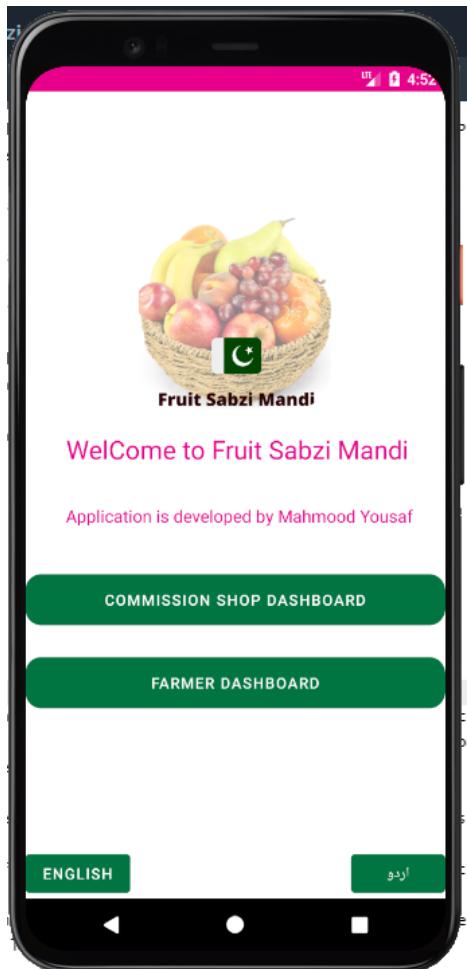


Figure 1.4: Intro screen with English Locale

### 1.6.2 Intro Screen with Urdu Locale

When user click on Urdu button than this screen will show to user with Urdu locale



Figure 1.5: Intro screen with Urdu Locale

### 1.6.3 Login Screen

When user click on commission shop dashboard on intro screen than activity will switch to Login screen with below activity

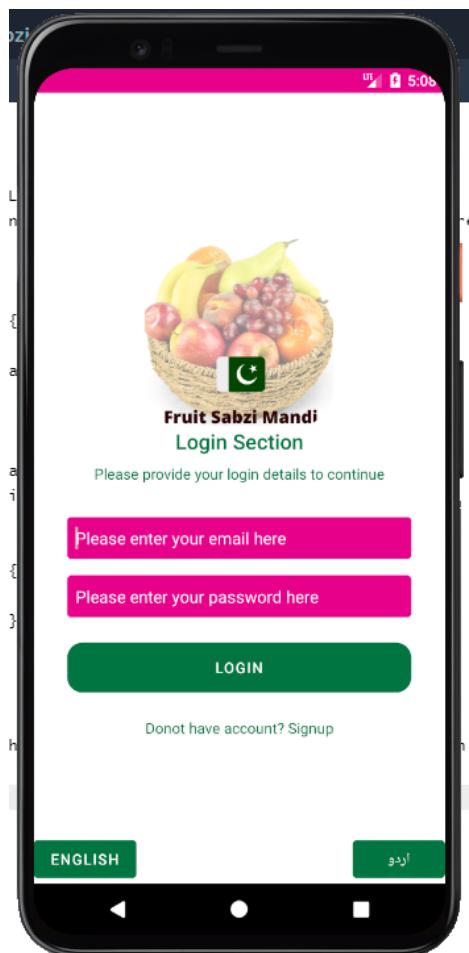


Figure 1.6: Login Activity

#### 1.6.4 Sign-Up Screen

When user click on sign-up text on Login screen than activity will switch to Sign-up screen with below activity

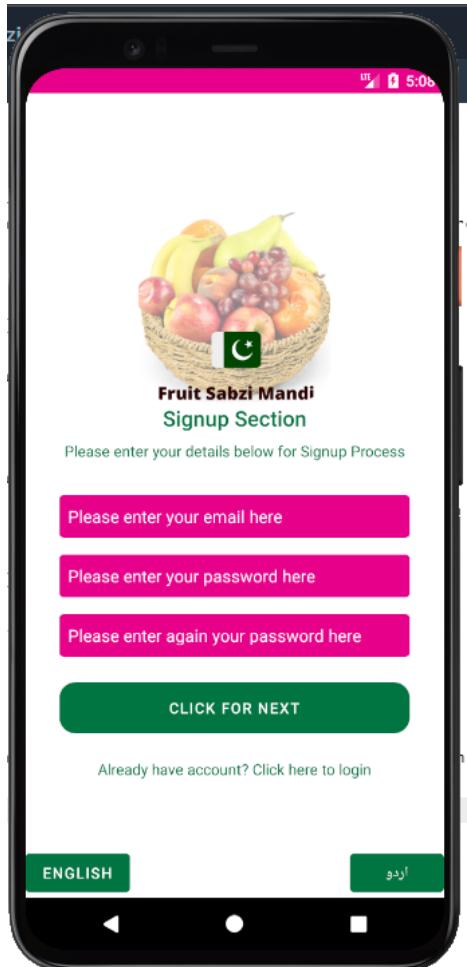


Figure 1.7: Sign-Up Activity

### 1.6.5 Extra Information of Commission Shops

When user click on Next button than than activity will switch to belowactivity

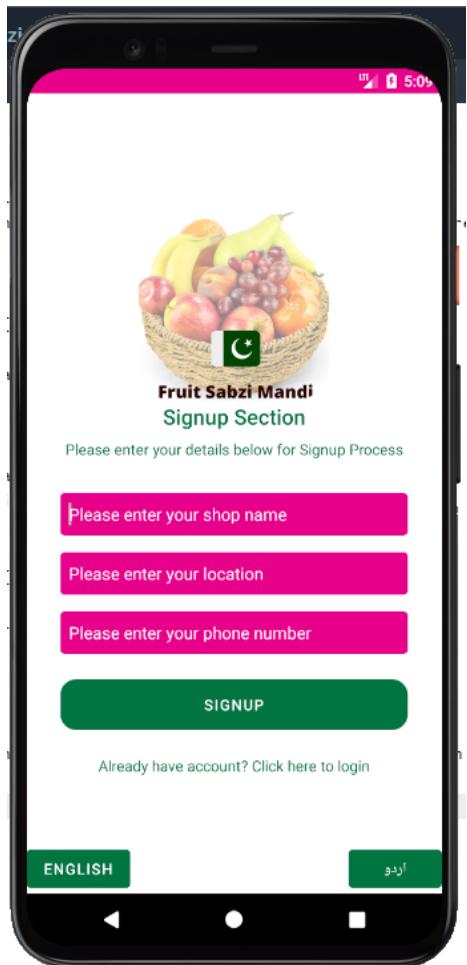


Figure 1.8: Extra information Activity

### 1.6.6 Commission Shop Dashboard Home

When user is successfully authenticated than commission dashboard home is shown below and in recycler view all data is rendered. Home screen contains all deals are posted by commission shop owner. Commission shops can delete deal by clicking cross sign showing in below image. Here fragments are used where user can perform multiple tasks without switching the activity.

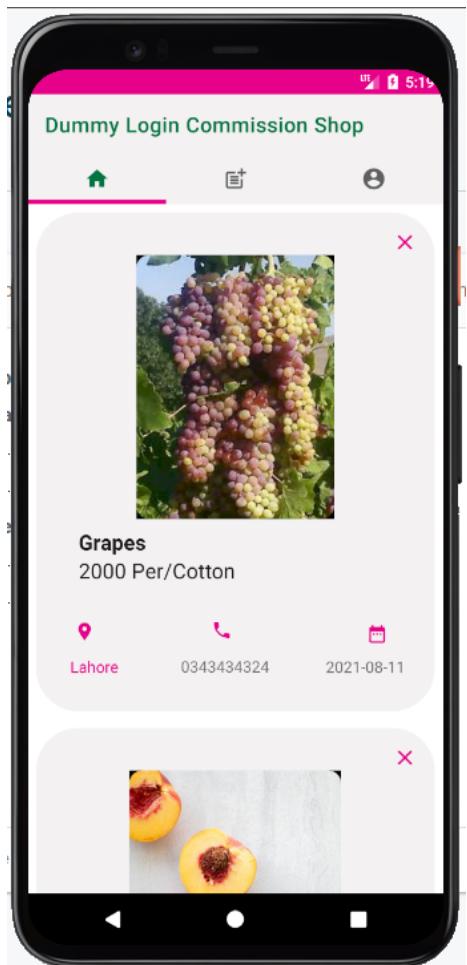


Figure 1.9: Commission shop home screen

### 1.6.7 Commission Shop Dashboard Post

When user is successfully authenticated than commission dashboard post is shown below where commission shop owner can upload deals after clicking post icon in tab layout and here fragments are used.

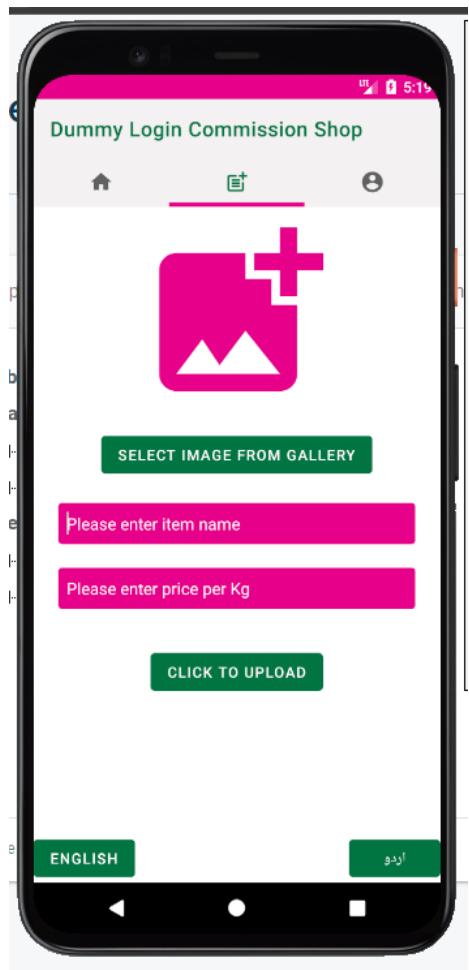


Figure 1.10: Commission shop post screen

### 1.6.8 Commission Shop Dashboard Profile

When user is successfully authenticated than commission dashboard profile is shown below after clicking profile icon where commission shop owner can view all details of shop and can logout

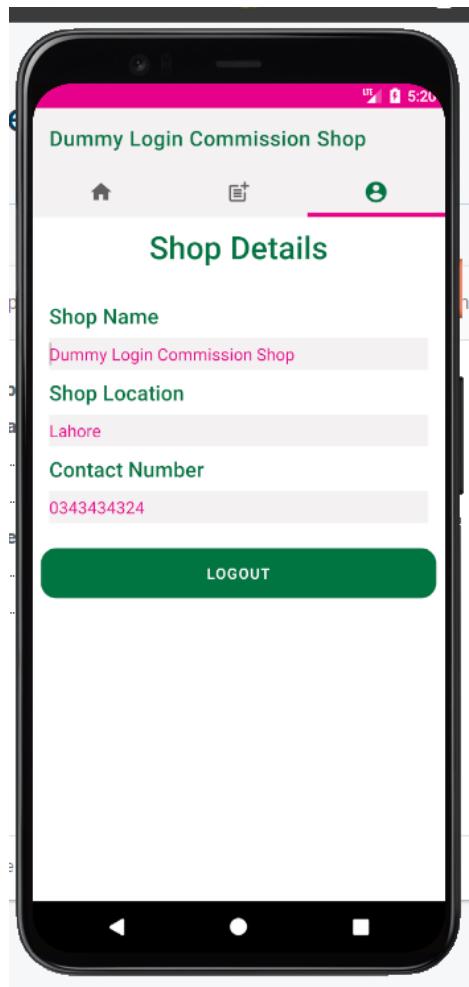


Figure 1.11: Commission shop profile screen

### 1.6.9 Farmer Dashboard Home

When farmer clicks on farmer dashboard button on intro screen than below screen will shown to user where farmer can view all deals all over the Pakistan commission shops

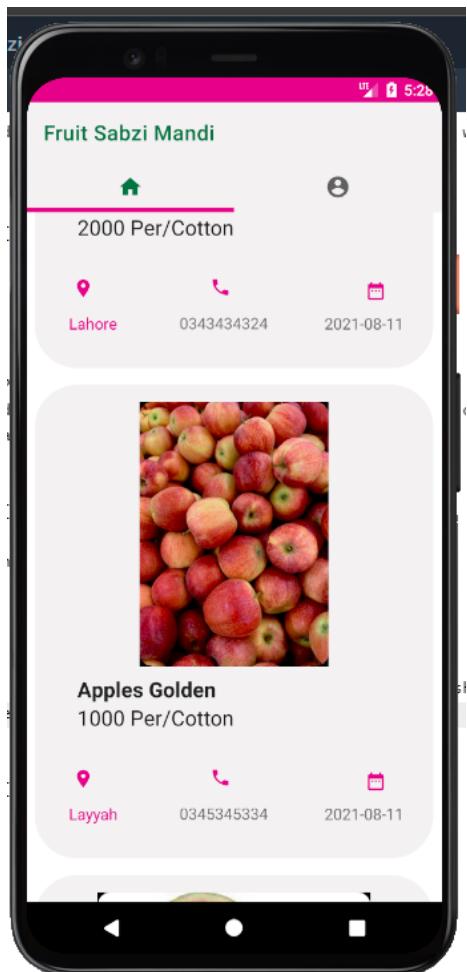


Figure 1.12: Farmer Dashboard Home screen

### 1.6.10 Farmer Dashboard Contacts

When farmer clicks on farmer dashboard button on intro screen than below screen will shown to user where farmer can view all over Pakistan commission shops details. Here also fragments are used and data is showing in recycler view.

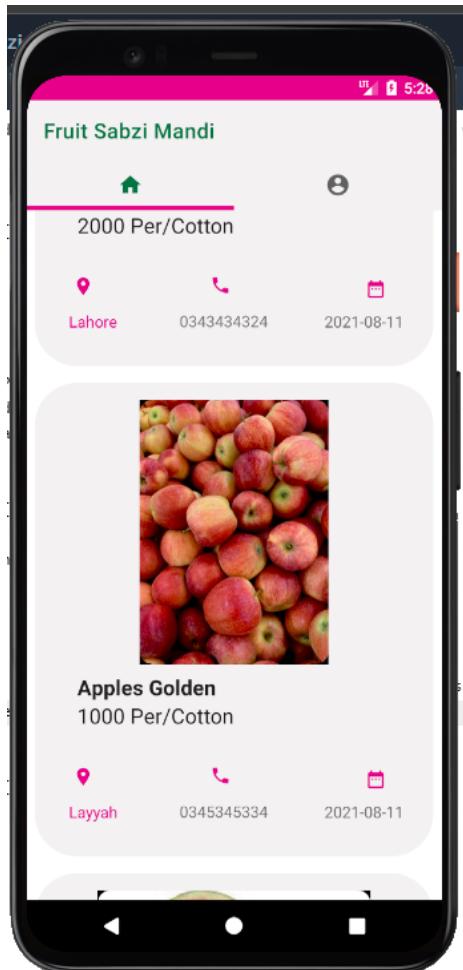


Figure 1.13: Farmer Dashboard Contacts screen

## 1.7 Real time Database Schema

Real time database is used in this application and schema of application is showing below in the image where all deals and commission shops details are stored

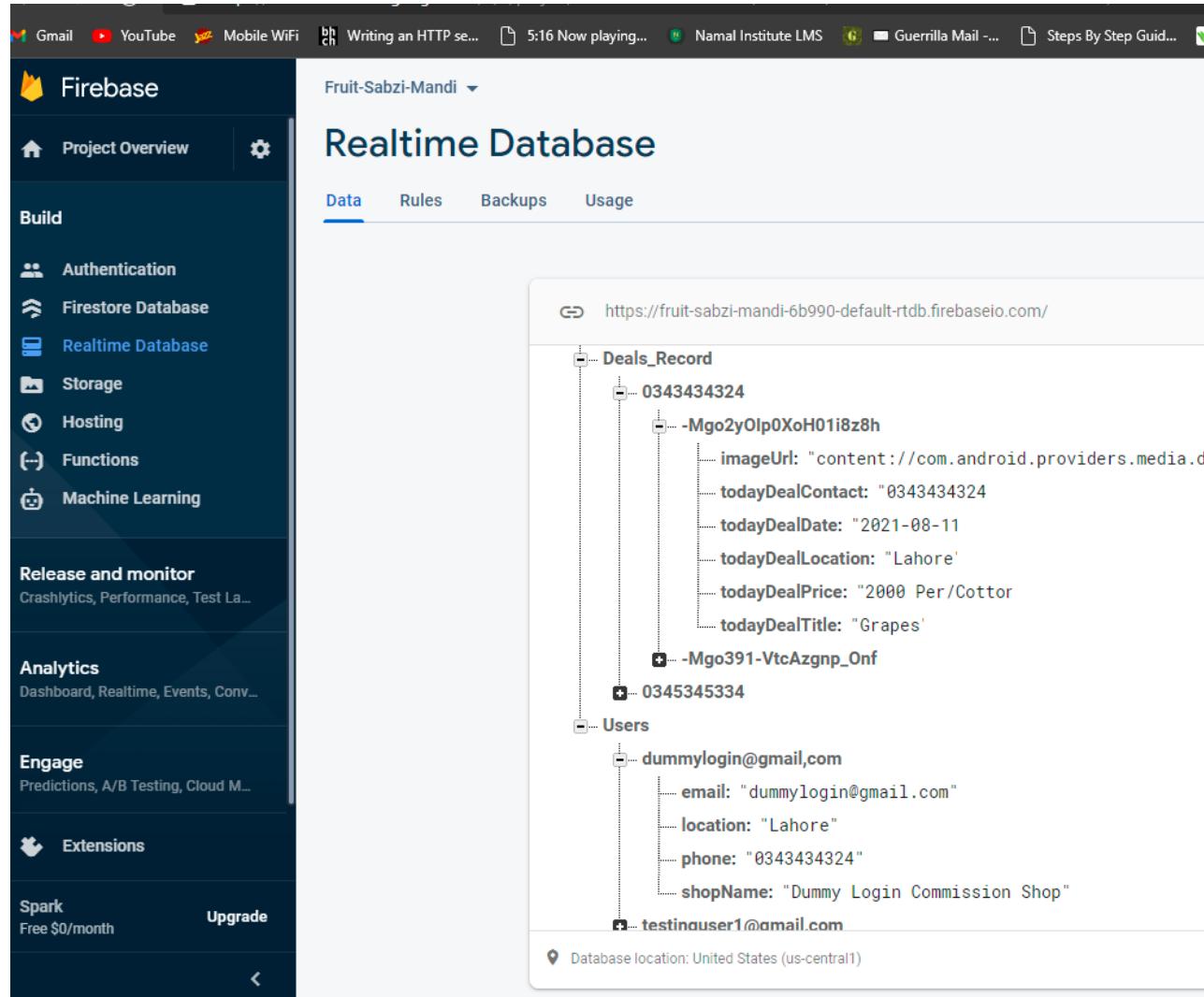


Figure 1.14: Real Time database Schema

## **1.8 Conclusion**

This problem is a real world problem through which every person suffering from it who belongs to this field.I started with problem statement that why we need this application.Than i discuss the methodology for implementation of this project.After complete details functional and non functional requirements than we deep dive into implementation part.Than complete user interface demonstration where we able to know that we can use this application.[1][2]

# Bibliography

- [1] Helped from google developer guides —. <https://developers.google.com/gdata/docs/developers-guide>, 2021. [Online; accessed:> 9-June-2021].
- [2] Helped from stake overflow —. <https://stackoverflow.com/>, 2021. [Online; accessed:> 9-June-2021].