



Sardar Vallabhbhai National Institute of Technology Surat - 395007

Subject : Software Tools - IV

Project Name: BarterSpot - Marketplace to trade
using method of bartering

Created by

Name : Hardik Sisodiya
Roll No. : U17CO072

Topics Covered

- Introduction
- Objective
- Features
- Technical Aspect elaboration
- Benefits
- Conclusion

Introduction

- BarterSpot is a marketplace where users can post the items that they possess and are willing to trade using method of bartering.
- People can make new account in the application using signup page and use all the functionality of application. Customer can directly search for the particular item from trade feed page. User can upload the picture of items that they possess using camera or choosing from the gallery into the inventory.
- User can edit their name, profile photo using the edit functionality. There is also a contact system by which customer can contact the seller of the particular item. User can make the available items as out of stock or delete them after trading it from their inventory.

Objective

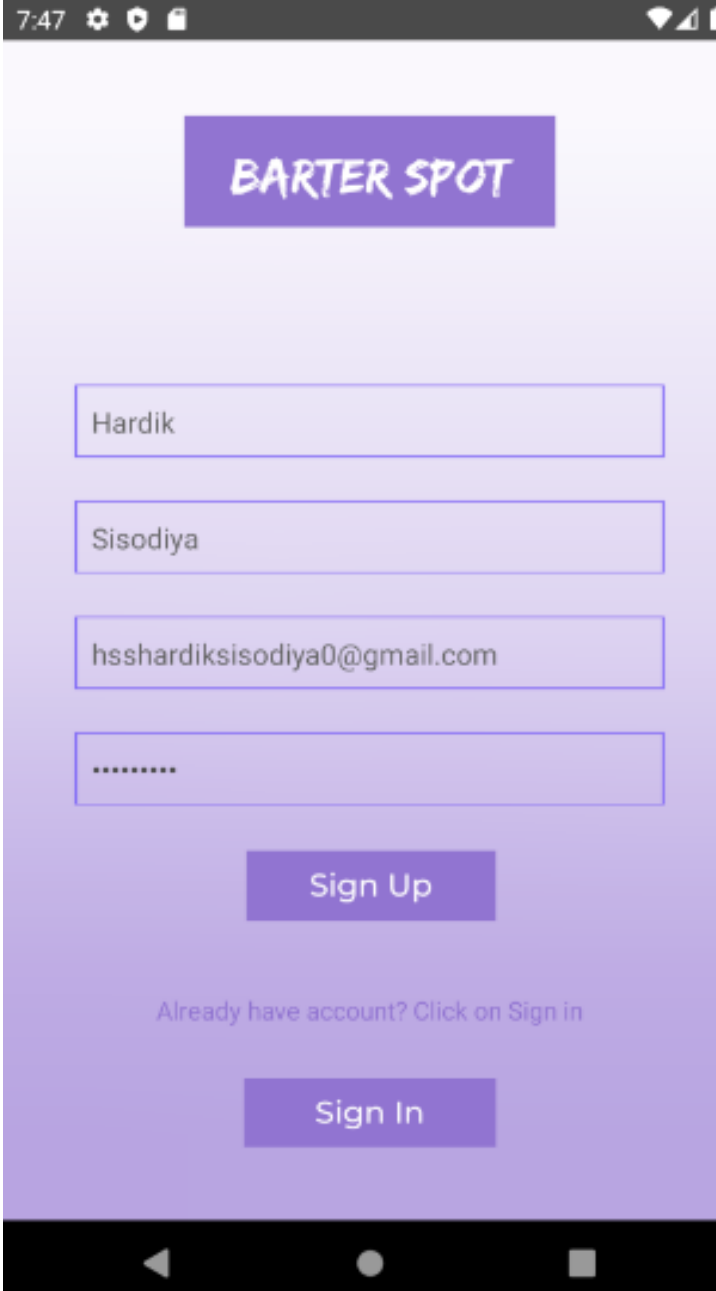
- Every project has a fixed aim and objective based on demand of work. This application is developed for the people who want to trade the items with others using method of bartering. This project has some specific objectives. Also this app will provide inventory page where user can list all the items that they possess by uploading the image and name of item. So app will simply help people by saving their valuable time. It will provide better and efficient service.

Features

- 1) Sign Up
- 2) Sign In
- 3) Trade Feed Search
- 4) Access the item details
- 5) Add item in Inventory
- 6) Profile page
- 7) Contact method to trade
- 8) View, Delete Item or Out of stock function

Feature - 1) Sign Up

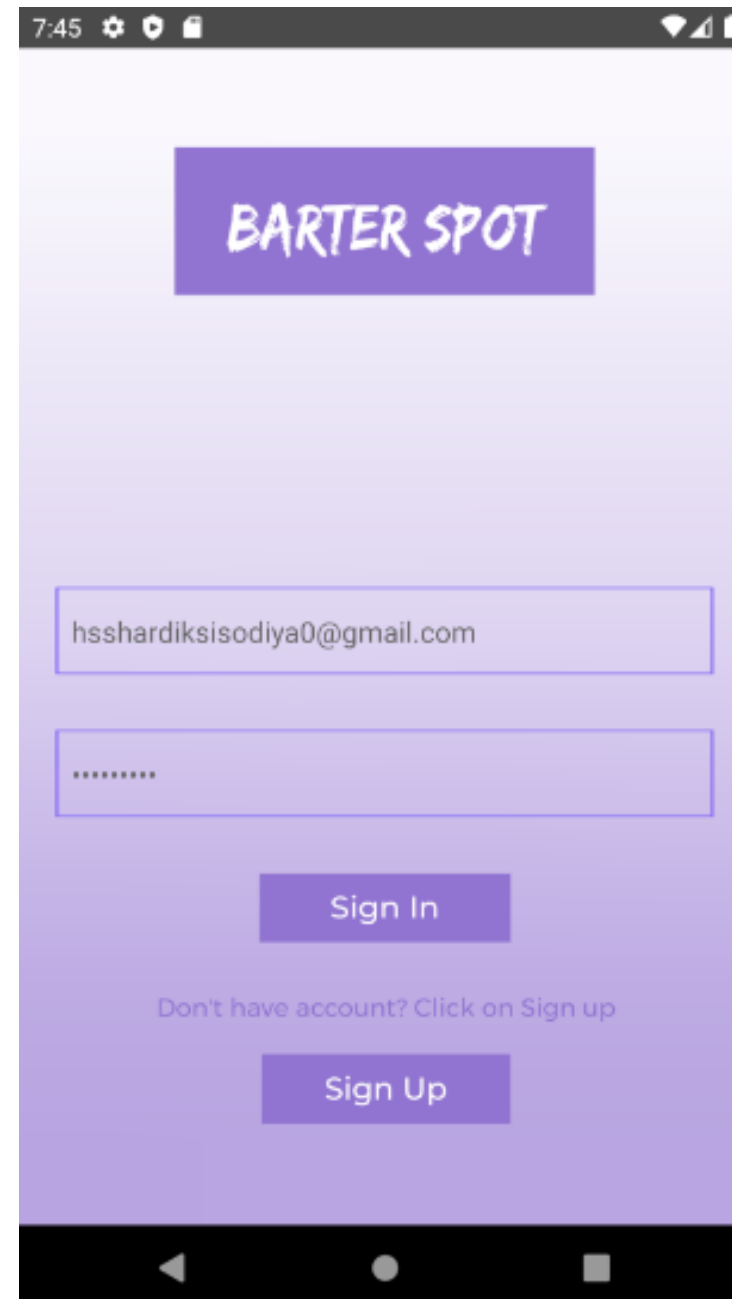
- ◆ Users can create an account easily with their details like name, email Id and password of length more than 6 characters
- ◆ This page also contains the validation of user input data. So it will be easy for user to work with application.
- ◆ It will show different errors in textfield like empty first name, empty last name, invalid email address etc.



The screenshot displays a mobile application interface for 'BARTER SPOT'. At the top, the app's name is in a purple box. Below it are four text input fields: the first contains 'Hardik', the second 'Sisodiya', the third 'hsshardsisodiya0@gmail.com', and the fourth is masked with dots. A purple 'Sign Up' button is positioned below the fields. Underneath the button is a link that says 'Already have account? Click on Sign in'. At the bottom is a purple 'Sign In' button. The entire interface is set against a light purple gradient background. The top status bar shows the time as 7:47 and various system icons. The bottom navigation bar shows standard Android navigation icons.

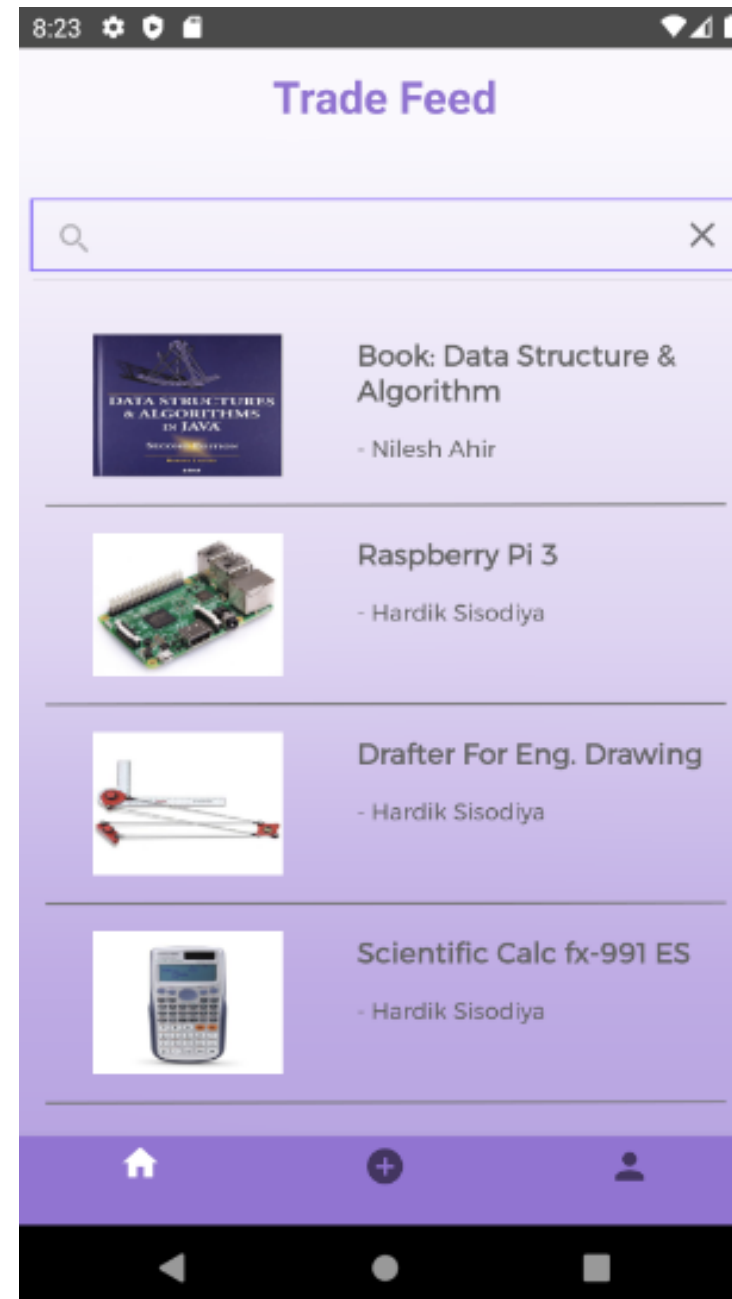
Feature - 2) Sign In

- ◆ At the very first time of sign in, User have to verify the email using the link sent to the email account given in sing up page.
- ◆ This email verification is done by using the firebase authentication functionality.
- ◆ Users can log in the application using their email Id and password.



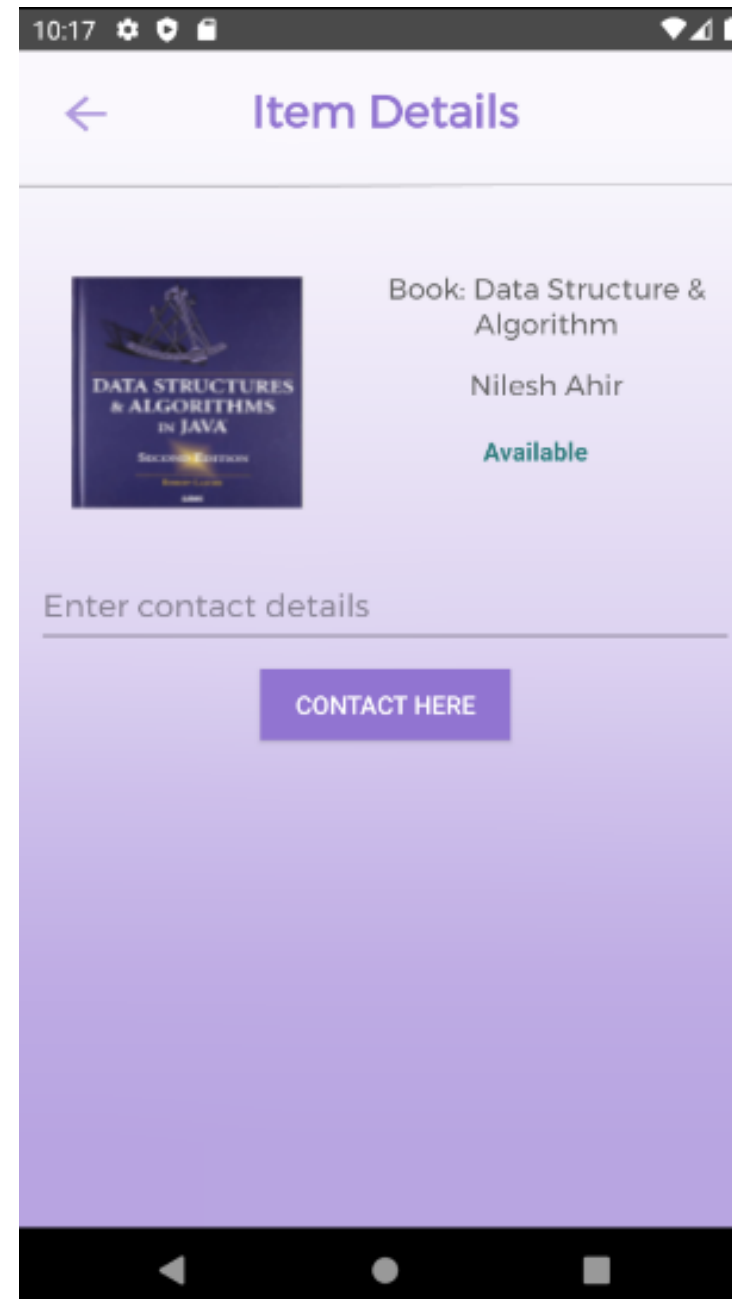
Feature - 3) Trade Feed Search

- ◆ User can see all items which are uploaded by other users with the possessor's name of the particular item.
- ◆ User can also use the search functionality to find the item by using the item name.
- ◆ To see the details of particular item, user can click on that item and it will redirect the user to item details page.



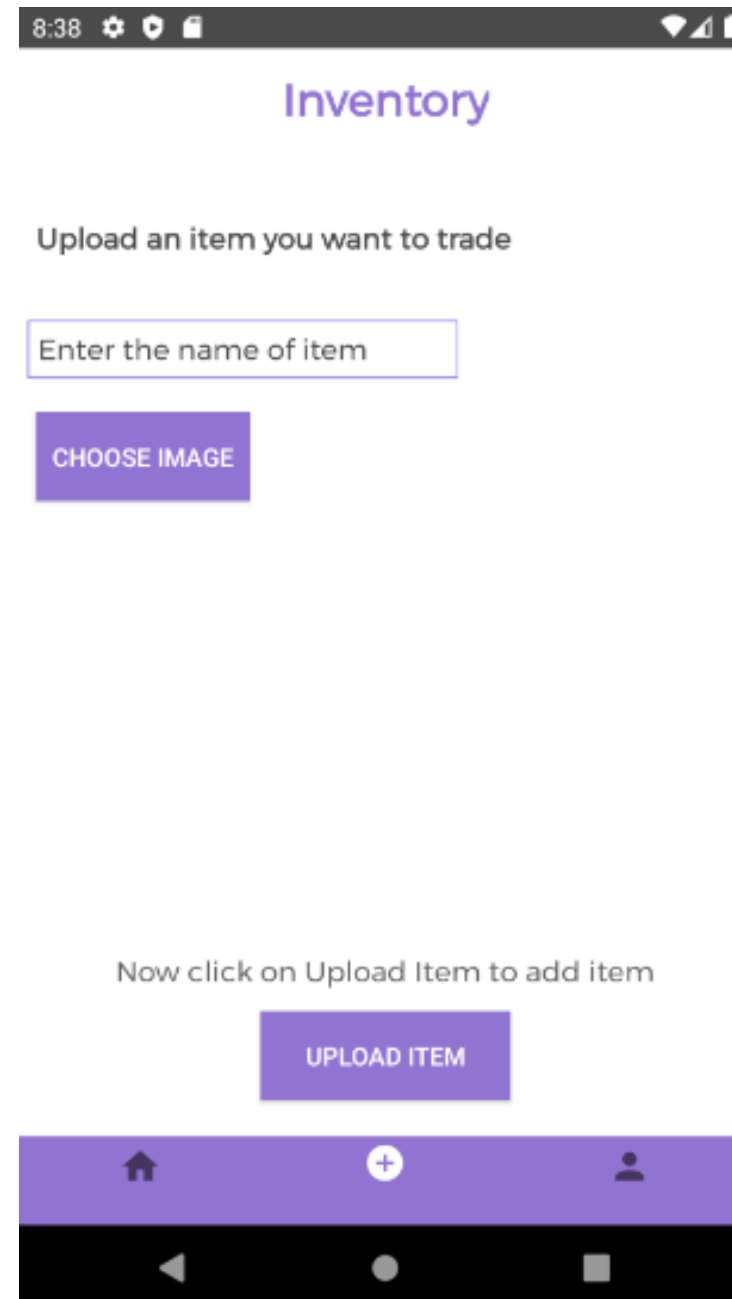
Feature - 4) Access the item details

- ◆ In this page, user can see details of item like name, possessor's name and availability of item at this moment.
- ◆ If user want to trade this item with his/her item, then user can add the contact details given in the page like email Id or contact no.
- ◆ User can also give comments and reviews for that item using the same field of contact details.



Feature - 5) Add item in Inventory

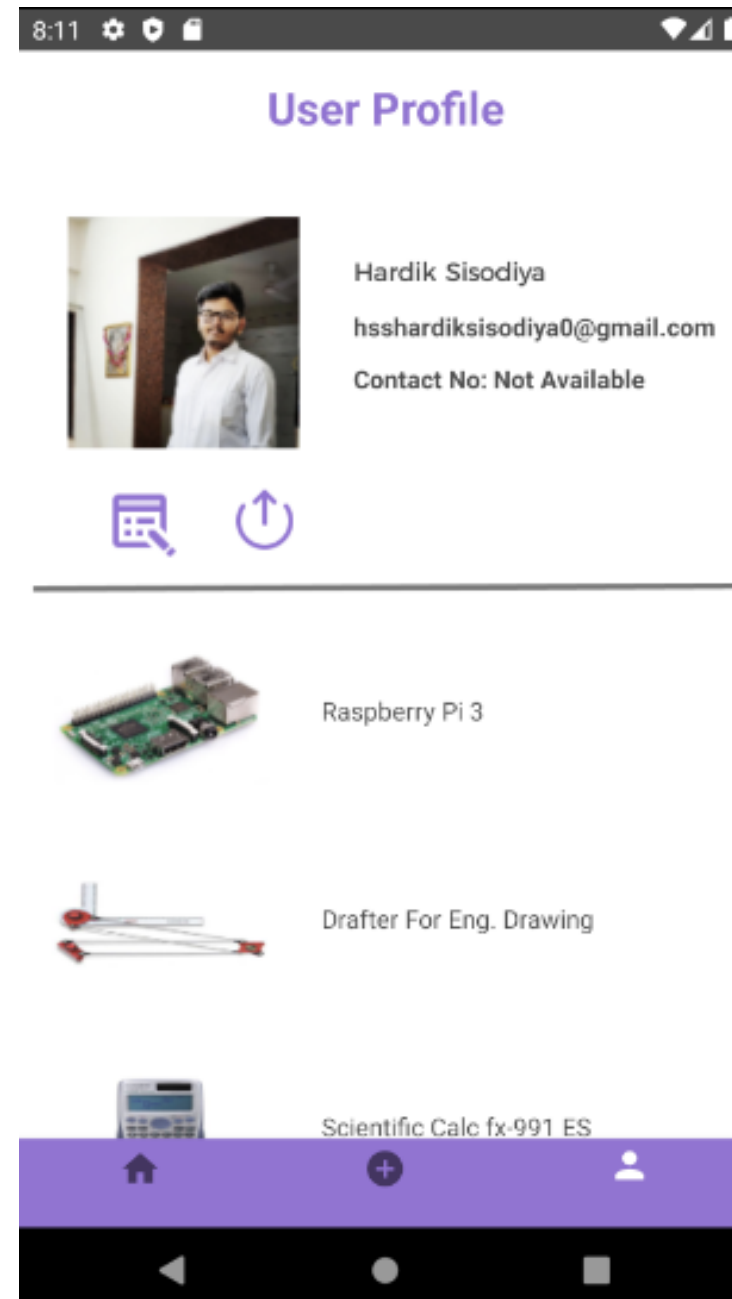
- ✦ Using this page, user can upload the new item by giving its name and adding picture of the item in the inventory.



The screenshot displays a mobile application interface for an inventory system. At the top, a status bar shows the time as 8:38 and various system icons. The app's title, 'Inventory', is centered at the top in a purple font. Below the title, a prompt reads 'Upload an item you want to trade'. This is followed by a text input field with the placeholder 'Enter the name of item'. A purple button labeled 'CHOOSE IMAGE' is positioned below the input field. Further down, another instruction states 'Now click on Upload Item to add item', with a corresponding purple button labeled 'UPLOAD ITEM'. The bottom of the screen features a purple navigation bar with three icons: a home icon, a plus sign, and a user profile icon. Below this is a black Android-style navigation bar with back, home, and recent apps buttons.

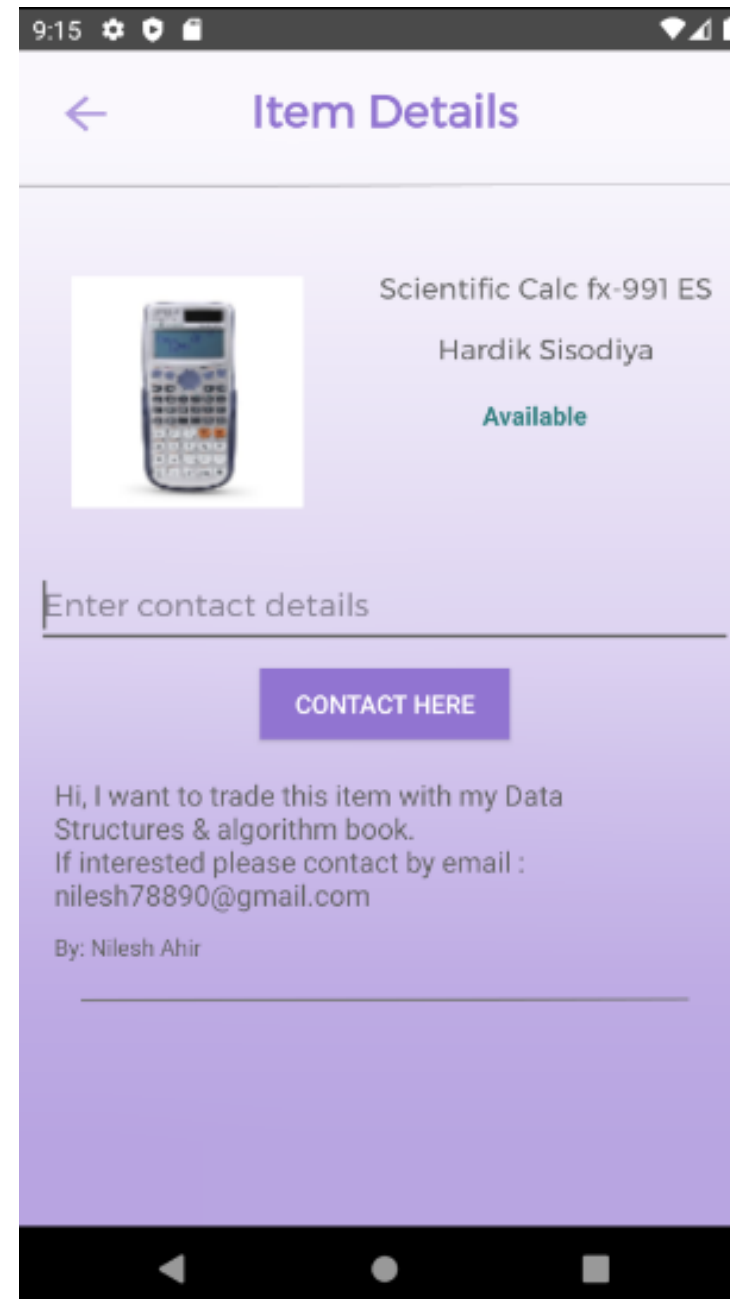
Feature - 6) Profile Page

- ◆ Users can access details of their profile of application using the profile page.
- ◆ User can edit the details like first name, last name, contact no, profile photo.
- ◆ In this page, user can see all the items that he/she uploaded in the application to trade with other user.
- ◆ User can logout from the application using logout icon.



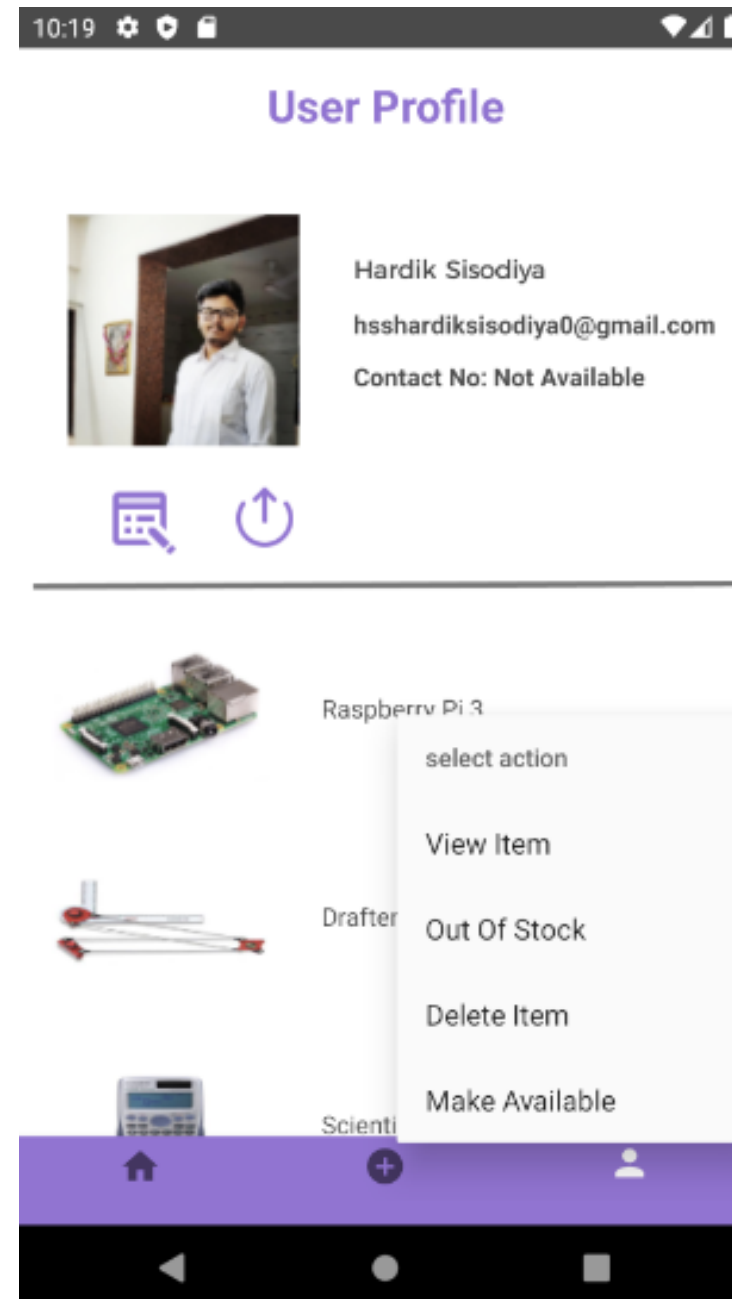
Feature - 7) Contact method to trade

- ◆ As we can see in the picture that one user is interested in trading the book with scientific calc and also given the contact details.
- ◆ Similarly, user can access this item details after clicking on item listed in profile page and see the comments or contact details added by other user.



Feature - 8) View, Delete Item or Out of stock function

- ◆ User can access the menu with 3 options (View item, Delete Item, Out of Stock) by doing the long press on view holder of particular item.
- ◆ If users don't possess the item then they can delete item or make the item out of stock.



Technical Aspect Elaboration

– It has been used the following platform, languages and tools :

1. Android Platform

2. Android Studio

3. Java Programming Language

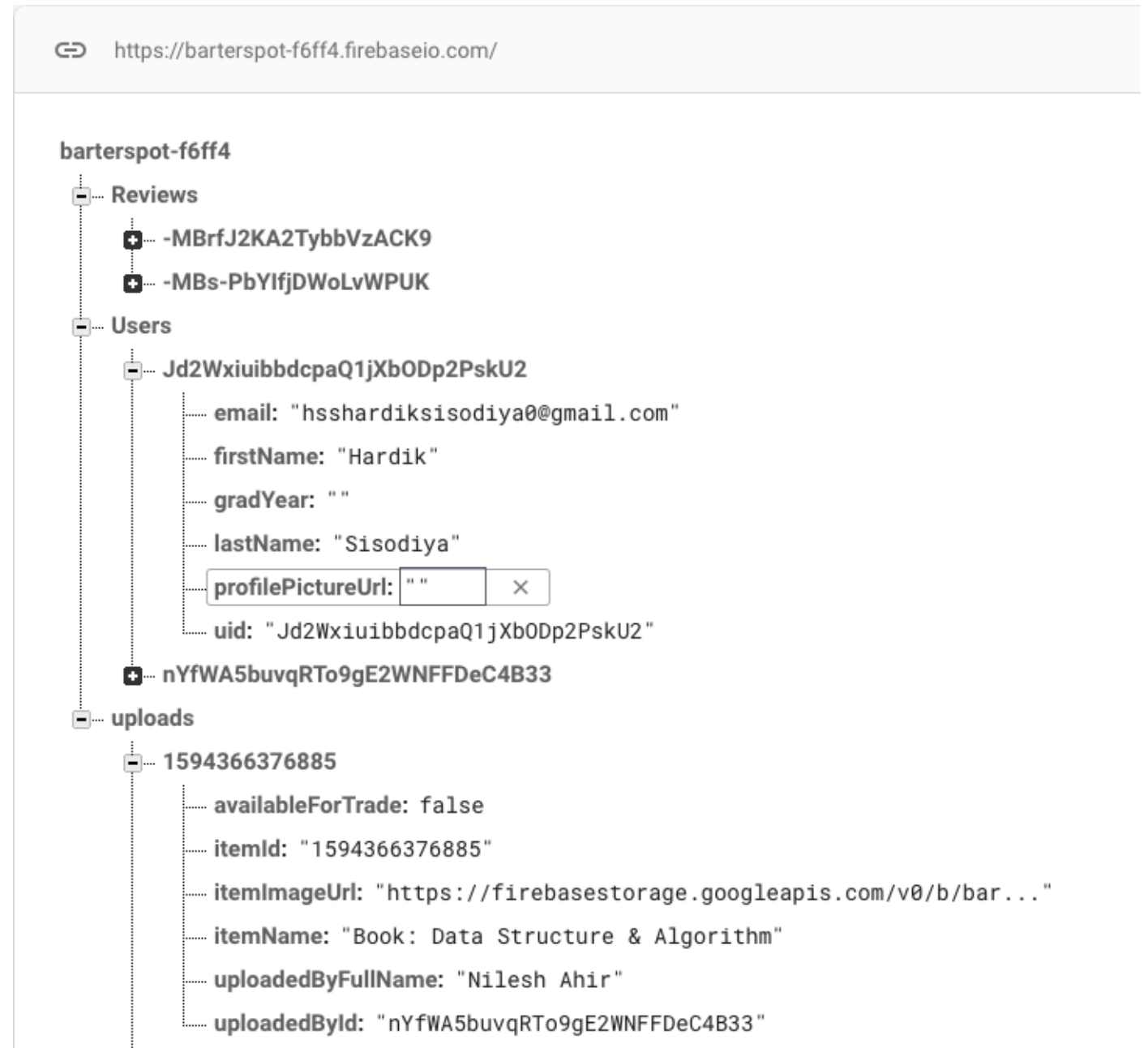
4. Java Development Kit (JDK)

5. Android SDK

6. Firebase for Realtime Database

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- Here, I have used the Realtime NoSQL database to store the instances of all the data used in the application like users, uploads, reviews etc.
- Best use of Realtime is that as soon as we edit value of data in our application it will edit the data in real time in firebase.



Benefits

- It will make the bartering process easy.
- People can keep track of their items using the inventory functionality with the user friendly experience.
- User can maintain the overall account easily.

Conclusion

- The project is developed to complete the needs of a user in the online marketplace for trading the items with the method of bartering by embedding all the functionality together in one place. It is very reliable, easy and faster method for trading the possessions.

Thank You...