

# **MOBILE COMPUTING**

## **PROJECT REPORT**

### **EASY BUY**

**PRAVINBABU B**

**2018115075**

### **INTRODUCTION**

EASY BUY is a mobile application which is used to buy and sell the used products i.e. second-hand products. In this mobile app, the user can post the details of the product that he wants to sell and can also search for the used product that he wants and can also make phone calls to the product owner to enquire about the product details and for cost negotiation.

### **TECHNOLOGY USED**

#### **Android Studio**

Android Studio is the official integrated development environment (IDE) for Google's Android operating system, built on JetBrains IntelliJ IDEA software and designed specifically for Android development. It is available for download on Windows, macOS, and Linux-based operating systems or as a subscription-based service in 2020. It is a replacement for the Eclipse Android Development Tools (E-ADT) as the primary IDE for native Android application development. Android Studio supports all the same programming languages of IntelliJ (and CLion) e.g. Java, C++, and more with extensions, such as Go; and Android Studio 3.0 or later supports Kotlin and "all Java 7 language features and a subset of Java 8 language features that vary by platform version." External projects backport some Java 9 features. While IntelliJ states that Android Studio supports all released Java versions, and Java 12.

## **DEPENDENCIES**

### **Url launcher**

URL launcher is used to open websites, create an email, send an SMS, and also can make a call. We can integrate SMS and email within the app to send them directly to users. We can make use of a predefined library flutter URL launcher to make the launchers much easily implemented in our app

### **Image Picker**

Image picker can be used to pick an image from the gallery as well as the camera

### **Fire Storage**

Firebase Cloud Storage is cloud-based storage from Firebase owned by Google to store user-generated content like photos or videos. The content can be downloaded by users on-demand to reduce the size of the app. You can upload any file and in return, you will get a URL that you can use to download that file.

### **Firebase Authentication**

Firebase UI Authentication is a way to add a complete sign-in system to our app, where Firebase provides a user interface to them. Firebase UI provides a drop-in auth solution that is used to implement authentication on mobile devices & websites. Firebase authentication supports authentication using a password, phone numbers, popular identity providers like Google, Facebook, and Twitter, etc.

### **Fire Store**

Firebase Firestore is a cloud NoSQL database that is used to add, retrieve, and update data inside your application. It is a database that is used to store data inside your Firebase console. The data in the Firestore is stored in the form of documents, so it becomes easy to manage this data inside Firebase.

## **MODULE:**

### **USER AUTHENTICATION (Sign In/Sign Up)**

This module is used to authenticate the user. In sign in the user will be validated using the mail-Id and password. The new user will be validated using the name, mail-Id, and password.

### **Welcome**

In this module we will have 3 buttons: Find, Add Items, and logout. Add items button navigates users to the add product module. Find button will navigate User to the For sale module and the Logout button is used to logout users from the current session.

### **Add Product**

In this module, the User will add the details like owner name, email id, contact number, product description, image, and cost of the product that he wants to sell. In this module, the Url launcher is used to access the image from the gallery and to take pictures using the mobile camera. After upload, the details of the used product that the user wants to sell The user will be navigated to the welcome module.

### **For Sale**

In this module, the User can search for the used product he wants. The product's image description and cost will be displayed. If the user is interested in any products on clicking the details button the details of the product will be displayed like Owner name, contact number, mail id, cost, description, etc and in addition to this there is a contact option which helps the user to contact the product owner for product details and Cost negotiation, etc.

### **Logout**

This module is used to log out the user from the current session.

## OUTPUT SCREENSHOT



