# **Topic:**

# **Pharmacy Mobile Application (MedPharma)**

Submitted in partial fulfillment of the requirements for the degree of

## **Bachelors' in Computer Applications**

by

- 1. Anitha C 19BCA0001
- 2. Anjali Yadav 19BCA0017
- 3. Priyanka Gupta 19BCA0045

Under the guidance of

J. Prosonne Dr. Prasanna M

**School of Information Technology and Engineering** 

VIT, Vellore



## **DECLARATION**

We hereby declare that the thesis entitled "Online Pharmacy Mobile Application" submitted by us, for the award of the degree of Bachelor of Computer Application to VIT is a record of bonafide work carried out by us under the supervision of *Dr. Prasanna M*.

We further declare that the work reported in this thesis has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.

Briganka Crupta Anitha. C

Place: Vellore

**Signature of the Candidates** Date:

## **CERTIFICATE**

This is to certify that the thesis entitled "Online Pharmacy Mobile Application" submitted by Anitha C (19BCA0001), Anjali Yadav (19BCA0017) and Priyanka Gupta (19BCA0045), School of Information Technology and Engineering, VIT, for the award of the degree of Bachelor of Computer Application, is a record of bonafide word carried out by them under my supervision during the period, 01-01-2022 to 30-04-2022, as per the VIT code of academics and research ethics.

The Content of this report have not been submitted and will not be submitted either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university. The thesis fulfills the requirements and regulations of the University and in my opinion meets the necessary standards for submission.

Place: Vellore

Date: Signature of the Guide

71 . Gronom

Internal Examiner External Examiner

## **ACKNOWLEDGEMENTS**

We wish to express our heartfelt gratitude to Dr. G Viswanathan, Chancellor, VIT University, Vellore for providing facilities for the final semester project.

We are highly grateful to our Vice Presidents, Shri. Sankar Viswanathan, Dr. Sekar Viswanathan and Shri. G.V Selvam, Vice Chancellor: Dr. Anand A. Samuel, Pro-Vice Chancellors: Dr. S. Narayanan and Dr. V. Raju for providing necessary resources.

Our sincere gratitude to Dr. Sumathy S, Dean, School of Information Technology and Engineering for giving us the opportunity to undertake the project.

We wish to express our sincere gratitude to Dr. Parimala M, Associate Professor, HOD of Smart Computing for providing us an opportunity to do my project work in the industry/VIT University.

We would like to express our special gratitude and thanks to my internal guide Prof. Prasanna M, Associate Professor (Senior), School of Information Technology and Engineering whose esteemed guidance and immense support encouraged us to complete the project successfully.

We thank the Management of VIT University for permitting us to use the library resources. We also thank all the faculty members of VIT University for giving us the courage and strength we needed to complete our goals. This acknowledgement would be incomplete without expressing our whole hearted thanks to my family and friends who motivated me during the course of the work.

Anitha C – 19BCA0001

Anjali Yadav – 19BCA0017

Priyanka Gupta – 19BCA0045

CONTENTS	PAGE No.
Acknowledgement	i
Table of Contents	ii
List of Figures	iii
List of Tables	iii
1. CHAPTER 1	
1.1 INTRODUCTION	1
1.2 ABSTRACT	2
1.3 SDLC MODEL CHOSEN	3
1.4 MODULE DESCRIPTION	3-4
2. CHAPTER 2	
2.1 REQUIREMENT ANALYSIS	5-6
2.2 LITERATURE SURVEY	6-14
2.3 SYSTEM ARCHITECTURE	15
3. CHAPTER 3 -> UML DIAGRAMS	
3.1 USECASE DIAGRAM	16
3.2 SEQUENCE DIAGRAM	17
3.3 ACTIVITY DIAGRAM	18
3.4 ER DIAGRAM	19
3.5 DATA FLOW DIAGRAM	20
4. CHAPTER 4	
4.1 IMPLEMENTATION	21-24
4.2 DATABASE IMPLEMENTATION	25
<ul><li>4.3 SOURCE CODE</li><li>5. CHAPTER 5 -&gt; TESTING</li></ul>	26 - 59
5.1 TEST MATRIX TABLE	60
6. BASE PAPER	61
7. REFERENCES	61

# **List of Figures:**

- 2.3 SYSTEM ARCHITECTURE
- 3.1 USE CASE DIAGRAM
- 3.2 SEQUENCE DIAGRAM
- 3.3 ACTIVITY DIAGRAM
- 3.4 ER DIAGRAM
- 3.5 DATA FLOW DIAGRAM

# **List of Tables:**

4.1 TEST MATRIX TABLE

**CHAPTER 1 - INTRODUCTION** 

**Purpose:** This document is meant to delineate the features of online shopping system, so as to serve as a

guide to the developers on one hand and a software validation document for the prospective client on the

other. This project is aimed at developing a Web application that depicts online Shopping of medical

products and booking appointments online.

**Scope:** This project is aimed at how the stores can improve the efficiency of the services. E-pharmacy is one

of the applications to improve the marketing of the company's products as well as have a better reach for

users everywhere and make appointments without having to visit the hospital physically.

**Overview:** This system provides an easy solution for customers to buy the product without going to the shop

and also to shop owner to sell the product. This proposed system can be used by any naïve users and it does

not require any educational level, experience or technical expertise.

**Overall Description** 

This will be a dynamic and an independent application. The user must register before purchasing anything

and this will also provide the users to book appointments at the best hospitals via online. Also, the developer

is designing an E-pharmacy system to manage the items in the shop and also help customers to purchase

them online without visiting the shop physically. This E-pharmacy will use the internet as the sole method

for selling goods to its consumers.

**Product Perspective:** This product aimed toward a person who don't want to visit the shop as he might

don't get time for that or might not interested in visiting there and also towards those users who might not

have a particular medical product available in their area. It also provides the users to make appointments

who are in need of a check-up at the best hospitals throughout the country.

**User Characteristics:** User should be familiar with the terms like login, register, order system etc.

**Principal Actors:** Two principal actors are Customer and Database.

**General Constraints:** A full internet connection is required.

**Assumptions and Dependencies:** Working of this application need Internet Connection.

## **CHAPTER 1 - ABSTRACT**

Online Pharmacy and Consultancy Application is an Android Application that organizes and manages the drug use process in pharmacies by storing data and enabling functionality. The Pharmacy System Project not only helps organizes the Medicines Management, but it also secures and does the fundamental processes done in any pharmacy.

This application can also be used by the users to buy the medicines they are running out of just by searching the medicine's name and placing the order.

Our application focuses on search and buy of a medicine or any other pharmaceutical related item, for e.g., thermometer, VapoRub, hand wash, sanitizers, etc.

We have homepage where the user will be having two options i.e.,

- (i) to search the medicines or products directly and proceed to purchase
- (ii) other one is to find products from categories mentioned like medicines, devices (thermometer, glucometer, blood pressure monitor, weight machine etc.), healthcare products (sanitizers, hand wash, nutritional drinks, etc.)

Next user has to purchase by adding the items in the cart and pay by the method according to their convenience.

This application also includes option to view schedule of doctor under appointment menu. In this part user can view a list of doctors and their schedule in the location given by user. To book an appointment user can call on the mentioned telephone number.

The users can give their feedbacks for the application and can suggest the improvements needed. Some positive sides of this system are that it is Convenient, Time saving, Reliable, Efficient and Confidential.

## **CHAPTER 1 - SDLC Model Chosen**

### **Agile Model**

As Agile Model is an incremental model of app development. Our project will be developed and released in incremental stages or iterations. Each project will be broken into short-duration iterations or sprints. Each iteration would be of the same duration lasting a week or so. At the end of each iteration, a simple working model of the project would be launched in the market to check its feasibility. Regular team meetings would be held at the end of each iteration for assessing the possible roadblocks. Each iteration offers the freedom to the developers to make changes to the project depending upon the market response to the launched version.

Any features which are not delivered in the first iteration would be incorporated on a priority level in successive iterations. The Agile model offers freedom and flexibility to developers. It gives ample opportunities for interactions between developers and customers and also between the development teams handling the different aspects of the project like finance, designing, coding, and marketing.

## **CHAPTER 1 - MODULE DESCRIPTION**

This section provides requirement overview of the system.

- 1. Registration Module: The Registration module is necessary for the user to use the Application. Registration module is made so that the users details are stored in the database and next time when the user opens the application he/she can directly go for login module.
- **2. Login Module:** To use this module, the user needs to register his/her details first. When registered, the user can use the application by directly logging into the system.
- **3. Forgot Password Module:** The user need to register to the system. If the user forgets his/her password, he/she needs to enter their email id to change to the password.
- **4. Home Page Module:** This is the first and the main page of the Application. Home Page redirects to different pages such as About us, Feedback, contact us, Set Appointment, Customer Account etc.

- **a. Search Module:** This module allows the customer to search for the product they want to buy directly by searching its name.
- **b. Select Category module:** This module will allow the user to search and buy products by selecting its category such as Healthcare, Equipment, Vitamins etc.
- **c. Purchase module**: This module will show the items added to the cart for the user to purchase.
- **d.** Consultation module: This module will help the user/patient consult a doctor according to his needs and issues.
- e. Book Appointment: This module will help the user to book appointments with the doctors.
- **f. First Aid module:** This module will provide short, knowledgeable first aid steps for some common accidents.
- **g.** Feedback: This module will allow the user to send feedback or to contact us in case they want to communicate to the admin.
- **h.** User Profile: To create new customer account the customer needs to register into the system. Existing users can login to the system. Customer can view and update his/her profile.
- i. Logout module: The logout button/module will help the user to logout of the application, which will redirect him to the login page.

## **CHAPTER 2 - REQUIREMENT ANALYSIS**

#### **Hardware Requirements**

- Internal Memory of at least 4 GB (Minimum)
- Intel® Core 2 Duo Processor
- Mobile Phone (Android OS)

#### **Software Requirements**

- Android Studio
- Android SDK (API Version 8 or above)
- Android Version 7.0 (Nougat) or above

#### **Functional Requirements**

- The system will allow the user to register their details in the system if he/she is a new user which will be stored in the database.
- The system will allow the user to login through email and password validating the details with the database.
- The system will allow the user to search and view the products they want to buy.
- The system will allow the user to add the products to the cart to but the products.
- The system will allow the user to give feedbacks about the system and its features.
- The system will allow the user to book appointments with the doctors by filling a form which contains their personal details and information about their symptoms.

#### **Non-Functional Requirements**

Following Non-Functional Requirements will be there in the insurance to the internet:

- Secure access to consumer's confidential data.
- 24X7 availability.
- Better component design to get better performance at peak time.
- Flexible service based architecture will be highly desirable for future extension.

### **Performance Requirements:**

In order to maintain an acceptable speed at maximum number of uploads allowed from a particular customer as any number of users can access to the system at any time. Also, the connections to the servers will be based on the attributes of the user like his location and server will be working 24X7 times.

### **Interface Requirement:**

Various interfaces for the product could be

- Login Page
- Registration Form
- There will be a screen displaying information about product that the app contains.
- If the customers select the buy button, then another screen of shopping cart will be opened.
- After ordering for the product, the bill will be displayed on the screen

#### **CHAPTER 2 - LITERATURE SURVEY**

**Objective:** The aim of the study was to perform an up-to-date and comprehensive review of the scientific literature focusing on the broader picture of online pharmacies by scanning several scientific and institutional databases, with no publication time limits

Purchasing of medicines online is recently started so there is only little literature available. Less research papers are available on online medicines/medical products shopping. Some research papers are available showing benefits of selling medicines and medical products online. With expanded utilization of the web, more individuals access medications and health supplements on the web. However little is thought about components connected with utilizing internet purchasing.

The introduction of mobile computing devices (personal digital assistants [PDAs], followed by smartphones and tablet computers) has greatly impacted many fields, including medicine.

Smartphones and tablets combine both computing and communication features in a single device that can be held in a hand or stored in a pocket, allowing easy access and use at the point of care. In addition to voice and text, new mobile device models offer more advanced features, such as web searching, global positioning systems (GPS), high-quality cameras, and sound recorders. With these features, as well as powerful

processers and operating systems, large memories, and high-resolution screens, mobile devices have essentially become handheld computers.

The rapid integration of mobile devices into clinical practice has, in part, been driven by the rising availability and quality of medical software applications, or "apps." Apps are software programs that have been developed to run on a computer or mobile device to accomplish a specific purpose. Faster processors, improved memory, smaller batteries, and highly efficient open-source operating systems that perform complex functions have paved the way for the development of a flood of medical mobile device apps for both professional and personal use. Mobile medical apps have a variety of features that are beneficial to pharmacy practice. Individual clinicians should consider several characteristics of these apps to determine which are suitable to incorporate into their daily practice.

Online pharmacies are companies that sell pharmaceutical preparations, including prescription-only drugs, on the Internet. Very little is known about this phenomenon because many online pharmacies operate from remote countries, where legal bases and business practices are largely inaccessible to international research. The aim of the study was to perform an up-to-date and comprehensive review of the scientific literature focusing on the broader picture of online pharmacies by scanning several scientific and institutional databases, with no publication time limits.

Data about geographical characteristics show that this information can be concealed in many websites. The analysis of drug offer showed that online a consumer can get virtually everything. Regarding quality of drugs, researchers very often found inappropriate packaging and labeling, whereas the chemical composition usually was not as expected in a minority of the studies' samples. Regarding consumers, the majority of studies found that not more than 6% of the samples had bought drugs online.

### **Advantages**

There are several advantages of buying medicines online that will help buyer and seller both. These are listed below:

#### **❖** Save Time

One of the most precious resource time can be save by online order of medicines as it may not be possible that all medicines may available in a single medical shop.

#### **❖** Save Fuel

As buyers do not need to go to market or any other place to buy medicines, so fuel will be saved. Sometimes one medicine may not be available in the market but buyers need it on urgent basis so he has to go to each

and every shop to check the availability of that medicine. And when it will be delivered by the seller the courier boy delivers all nearby parcels in the same time so it also saves time and fuel.

#### **❖** Mobile Application

Android, IOs and Microsoft windows applications are available that can be download in mobile phones which makes online shopping of medicines more convenient and easy. It also allows quick online mobile access via internet.

#### Order Confirmation

Seller also provides order confirmation email and SMS to the buyers. And on the day of delivery buyer will get detail of the delivery person including phone number, amount of order and content of the parcel. Buyer can directly call to the delivery person for convenient time of delivery.

## **Disadvantages**

### **Urgent medicines cannot be order online**

As we know that, we cannot predict illness so we cannot order medicines before illness. One major disadvantage is that it takes 2-3 days in delivery.

### Emergency medical products

Medical services are known as emergency services and generally it requires on urgent basis. So buyer can't buy it before requirement or doctors suggest it.

### Prescription Error

Sometimes Doctor's handwriting is not readable. So may possible the seller read it wrong.

### **Types and Characteristics of Online Pharmacies**

We selected 193 relevant articles: 76 articles with original data (39%), and 117 articles without original data (editorials, regulation articles, or the like) including 5 reviews. Articles with original data concerned samples of online pharmacies in 47 cases, online drug purchase in 13, consumer characteristics in 15, and case reports of adverse effects of online drugs in 12.

If they were available, we recorded the number of online pharmacies analyzed in each study, year of data collection, willingness to dispense pharmaceuticals with or without a prescription, availability of a physician's assistance or online medical consultation, disclosure of contact details, geographic allocation, delivery conditions, types of medicines available, availability of drug information, prices of online drugs and overall costs, sales-promotion strategies, how long websites were accessible, privacy and disclaimer statements, date of last website update, and presence of quality certifications (for instance, Verified Internet

Pharmacy Practice Sites [VIPPS] by the NABP; the Health on the Net Foundation [HON] code; and the Joint Commission on Accreditation of Healthcare Organizations [JCAHCO]).

#### Quality of Drugs Purchased Online

We recorded studies in which the researchers bought prescription drugs online and evaluated the actual purchase and its characteristics. We summarized data regarding the type of drug ordered, the response rate, the quality of the process, and the drugs purchased. Regarding process characteristics, we recorded prescription requirements, management of the online questionnaire, money transactions, and subsequent advertising; with regard to drug quality, we recorded data about packaging and instructions, and chemical composition.

### \* Consumers Buying from Online Pharmacies

We described articles dealing with the number of people purchasing drugs online, which was estimated by means of questionnaires or interviews. Researchers attempted to list the most frequently requested drugs, the main reasons for buying pharmaceutical products online, the importance of the location of online pharmacies they bought from, and the perceived risks related to this practice. In addition, we classified in this section articles that reported clinical cases of adverse effects to active substances and drugs purchased via the Internet as an indicator of this phenomenon.

### \* Prescription Requirement

One of the most controversial and widely studied features is prescription requirement. For the first time, online pharmacies are providing easy access to traditionally controlled (according to each country's regulations) substances, such as pharmaceutical products, which in regulated systems need an original medical prescription before they can be bought. The peculiar distribution chain for prescription drugs is due to the unique nature of pharmaceutical products; the philosophy behind prescription is that consumers are not skilled enough to make their own choice, but need to be given a prescription by a health professional trained to make a risk—benefit evaluation. In addition, the medical follow-up of a drug treatment is crucial. Furthermore, there are problems regarding strict quality control for substances that can determine life or death. Last but not least, there are economic implications in ruled systems where drug prices are negotiated and partially funded by the health system. Due to the different methods of sample selection, distribution varies greatly in the articles. Some online pharmacy samples were specifically selected to have only websites not asking fora prescription from the customer's physician .In the samples that did not use prescription as a criterion for inclusion or exclusion, the prescription requirement varied widely: all websites asked for an original medical prescription in Wagner et al (who selected only US-based online pharmacies), more than half [10,58,63,65,66,71,73,75,80,84,86,90] in still others, and none in

a few. In Bloom and Iannone it was not possible to determine whether the required prescription was an original one by the customer's physician or replaced by an online health evaluation as explained below.

#### ❖ Presence of an Online Questionnaire

Some of the online pharmacies not asking for a prescription replaced it with an online health status evaluation, performed by means of an "online questionnaire." Researchers reported a percentage of online pharmacies offering and/or requiring an online prescription in a range of 10% to 81%. Those who looked deeper into this issue found that the identity of the professional who made the prescription was not usually provided, whereas they often declared that the questionnaire reviewer was a physician or, more rarely, a pharmacist. Gallagher and Chapman reported that, of the 26websites using a questionnaire, 1 involved multiple-choice check-box answers and drop-down menu answers, and the others used questionnaires that allowed users to type in an answer. Eysenbach —who attempted to buy the products—found that the identity of the physician who made out the prescription was revealed in 2 out of 10 orders. The US Government Accountability Office (GAO) found the collaboration of licensed physicians, although when they verified these licenses almost all of them were nonexistent or not valid for all the US states where they were declared to be. No study found the use of a validated or standardized questionnaire. Orizio et al did a sub analysis of a previous study that focused on the characteristics of online questionnaires; it reported that the questionnaire was already filled in with negative answers in 70% of online pharmacies using this tool, and that in only 53% of cases were different questions asked for different products ordered. Since the questionnaires were often incomplete, the authors concluded that they appeared to aim more at giving the consumer a false sense of health assurance than at actually assessing health status. The questionnaire frequently investigated personal characteristics, allergies, medical conditions, current therapies, and medical history.

#### Contact Details

Contact details were revealed in the majority (ranging from100%, or a little less among online pharmacies when this item was analyzed, to 66%). Only Tsai et al found just 37% of pharmacies giving a telephone number for costumers' enquiries, and the European Alliance for Access to Safe Medicines' analysis found that42% provided a working telephone number. Bessel et al pointed out that only 35% of their sample published the owners' or the director's names, and European Alliance found that94% of the sample did not have a named verifiable pharmacist to answer questions.

#### ❖ Geographical Location

Declaration of geographical location is an important feature with regard to transparency. Apart from the studies that focused only on websites based in a specific area, the sampled websites declared a geographical location ranging from 11% to 100%; according to the results of Armstrong and Sanford Schwartz, Bessel et

al, Bloom and Iannone, Gallagher and Chapman, and Tsai et al, more than half of the samples mentioned where the company was based; the others found that less than half did. Orizioet al found that online pharmacies asking for a prescription were significantly more likely to declare their geographic allocation than were online pharmacies that did not, which were more often just virtual interfaces. Online pharmacies were most frequently based in the United States in virtually all the studies that investigated samples that were not restricted geographically. Other studies focused on online pharmacies based in specific countries, such as the United States, the United States and Europe, the United States and Canada, Canada, or Brazil.

#### ❖ Delivery: Where from and Where To

The National Center on Addiction and Substance Abuse (CASA) found that 24% of shipments were declared to be from the United States, and 36% of the sample gave no indications. In Orizio et al 42% of the websites declared where they deliver from, the most frequent place being Asia (47%); agreement between declared physical location and delivery location was found in 31% of online pharmacies providing both details. The attempt by Bate and Hess to purchase drugs showed several cases of shipments from a different location from what was indicated on the website. Both Arruanda and Bessel et al found that two-thirds of the online pharmacy samples sold internationally, whereas all the websites sampled by Schifano et al did. Raine et al selected only online pharmacies delivering to the United Kingdom. Makinen et al related the fact of shipping abroad to the prescription requirements: online pharmacies that asked for a prescription were more likely than those that did not to sell only in the country they were based in, and delivered anywhere in the world.

#### ❖ Drugs Offered by Online Pharmacies

What do online pharmacies have to offer? From an analysis of the literature it appears that online pharmacies have become more and more complex as time passes; whereas 10 years ago they tended to sell principally lifestyle drugs such as sildenafil, it looks today as if they offer virtually anything. Back in 1999, Bloom and Iannone studied a sample of online pharmacies in which the majority sold 1 or 2 drugs only, one for erectile dysfunction and the other for alopecia; in the same year Armstrong and Sanford Schwartz found an entire sample of 77 websites selling sildenafil. In 2003 Arruanda found that their sample was equally divided into 3 groups: selling 1drug only, between 2 and 29 drugs (average 7), and selling 30or more. The various studies reported several specific drug offers: sildenafil, benzodiazepines, painkillers, antibiotics, insulin, female hormones, antidepressants, alopecia medications, and obesity medications. Both generic and brand drugs were available on the market.

#### \* Prices

Arruanda evaluated the presence of drug price lists (found in 96% of the sample) and of "price comparisons with competitive pharmacies" (1%). A comparison of online pharmacy and retail pharmacy prices had

different results. Drugs offered online were more expensive in Bloom and Iannone's studies, in Tsai and colleagues' analysis, and in Cicero and colleagues' purchase. Levaggi et al found that drugs bought without a prescription cost more than with one. In Bate and Hess's purchase, larger orders generally tended to have lower per-tablet/per-capsule prices, and were more prevalent among online pharmacies that had not been approved by the NABP. Online prescription could be another added cost. It is interesting to note that, although a prescription is not necessary in marketing messages, Levaggi et al found in their price analysis that the prescription has a value on the market; indeed, when you buy a drug without a prescription, the drug costs more.

#### **\*** Marketing Strategies

Only a few articles focused on the marketing strategies of online pharmacies. Levaggi et al and Orizio et al disclosed the persuasive statements more frequently used by websites to promote their products, and identified arguments regarding privacy, service and drug quality, price offers, reassurances that buying drugs online is legal, and the suggestion that you can obtain a drug while avoiding a visit to the doctor. Gurau pointed out that providing contact information may be a way to reduce the perceived risk of online transactions; moreover, statements about price, convenience, choice, and discreetness of service are more frequently used by online pharmacies not asking for a prescription than by those asking for one. Advertising prescription-only medicines was also found by Bessel et al in 20% of online pharmacies. Orizio et al pointed out that the marketing strategies adopted by online pharmacies enhance consumers' peripheral reflection: by analogically playing with the sale of other commodities, they magnify aspects of online trading that consumers might find convenient, but overshadow the nature and risks of the actual products they sell.

#### Quality

The presence of at least 1 quality certification was found to range from 12% to 13% to 28%, but Tsai et al did not find any websites displaying certificates. Researchers found certificates about the quality of the health contents and/or about security in the money transaction. A special study was performed by Kuzma about the Web vulnerability of a random sample of 60 online pharmacies. Shechose as her testing tool the N-Stalker Web Application Security Scanner 2009 Free Edition 7.0, which showed that a majority of worldwide online pharmacies do not provide adequate protection for their consumers, especially in cross-site scripting. The NABP found that 17% of the websites in their sample did not have a secure site. Kunz and Osborne assessed the readability of 16 online pharmacies using Story toolz; they found that the majority of the information provided on direct-to-consumer pharmaceutical websites is written at a level far higher than that which the average consumer can understand.

### **❖** Population Surveys

Table 3 shows the 15 articles dealing with consumer characteristics and based on surveys. Most studies were US based, except for 4, which were conducted in Europe and South America. The findings were published between 2003 and 2010. Seven studies investigated the general population, while the remainder were about specific groups, described in Table 3.

First author, year of publication	Year(s) of data collection	Country where the study was performed	Population investigated	Study design	Percentage of people buying prescription drugs online
Atkinson, 2009 [113]	2005	US	Sample of general pop- ulation	HINTS 2005 survey <sup>a</sup>	13% (715/5586) (bought medicines or vitamins)
Baker, 2003 [108]	2001-2002	US	Sample of general pop- ulation	Internet survey	5% (over 3668 respondents)
Bechara, 2010 [107]	2009	Argentina	Healthy young men	Questionnaires on use of phosphodiesterase type 5 inhibitors	2.9% (2/321)
Cicero, 2008 [64]	2006	US	Prescription drug abusers	Questionnaires	6% (41/685)
Cohen, 2010 [109]	2009	US	Sample of general pop- ulation aged 18–64 years	NHI Survey 2009 <sup>b</sup>	6% of 7192
Fox, 2004 [12]	2004	US	Sample of general pop- ulation	Telephone interviews	4% (93/2200)
Gordon, 2006 [115]	2003-2004	US	Drug-dependent inpa- tients	Semistructured inter- views	6% (6/100)
Gurau, 2005 [75]	2004	UK	Sample of general pop- ulation	Semistructured question- naires	34% (102/300) (peop buying or intending to buy online)
Harte, 2010 [110]	2006–2007	US	Male college and univer- sity students	Online questionnaires on use of phosphodi- esterase type 5 in- hibitors	12% (8/77) of users
Inciardi, 2009 [116]	Varies with source	US	Drug abusers, students, street sex workers, and "club culture" popula- tion	RADARS System <sup>c</sup> , NSDUH <sup>d</sup> , Delaware School Study, Miami street studies, and quali- tative studies	1%-6%
Inciardi, 2010 [111]	Varies with source	US	Drug abusers, students and young adults	RADARS System <sup>c</sup> , NSDUH <sup>d</sup> , MTF <sup>e</sup>	0.5%-3%
Mazer, 2010 [112]	2007	US	Sample of emergency department patients	Questionnaires	5.4% (89/1654)
Rajamma, 2009 [114]	Not declared	US	Sample of general pop- ulation born 1946–64	Online questionnaires to a sample from the consumer panel by Common Knowledge Research Services	Not applicable <sup>f</sup>
Schnetzler, 2010 [105]	2008	UK, Germany, Italy	Sexually active men	Online questionnaires on use of phosphodi- esterase type 5 in- hibitors	32% <sup>8</sup>
Wiedmann, 2010 [106]	2008	Germany	Sample of general pop- ulation	Face-to-face interviews	Not applicable <sup>f</sup>

#### **REFERENCES**

1. Quality of Online Pharmacies and Websites Selling Prescription Drugs: A Systematic Review September 2011 Journal of Medical Internet Research 13(3):e74

DOI:10.2196/jmir.1795

SourcePubMed

Grazia Orizio

Azienda Sanitaria Locale della Provincia di Brescia

Anna Merla

Azienda Sanitaria Locale della Provincia di Brescia

Peter J Schulz

University of Lugano

Umberto Gelatti

Università degli Studi di Brescia

C. Lee Ventola

2. Online medicines and medical products shopping — a brief study

Kapil Sharma, Rinku Sharma

Indian Institute of Management, Indore, India

- 3. Desai, K., Chewning, B., & Mott, D. (2015). Health care use amongst online buyers of medications and vitamins. *Research in Social and Administrative Pharmacy*.
- 4. Kotha, S., Rajgopal, S., &Venkatachalam, M.. (2004). The Role of Online Buying Experience as a Competitive Advantage: Evidence from Third-Party Ratings for Ecommerce Firms. *The Journal of Business*, 77(2), S109–S133. Retrieved from <a href="http://www.jstor.org/stable/3663735">http://www.jstor.org/stable/3663735</a>.
- 5. Riedl, C., Leimeister, J. M., &Krcmar, H.. (2011). Why e- Service Development is Different: A Literature Review. *Eservice Journal*, 8(1), 2–22.

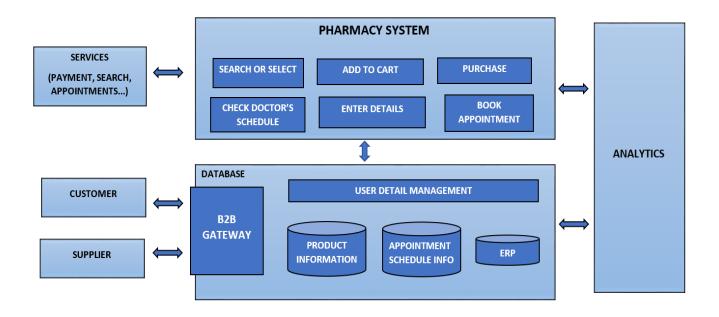
http://doi.org/10.2979/eservicej.8.1.2.

6. Kettle, K. L., & Häubl, G.. (2011). The Signature Effect: Signing Influences Consumption-Related Behavior by Priming Self-Identity. *Journal of Consumer* 

Research, 38(3), 474–489. http://doi.org/10.1086/659753.

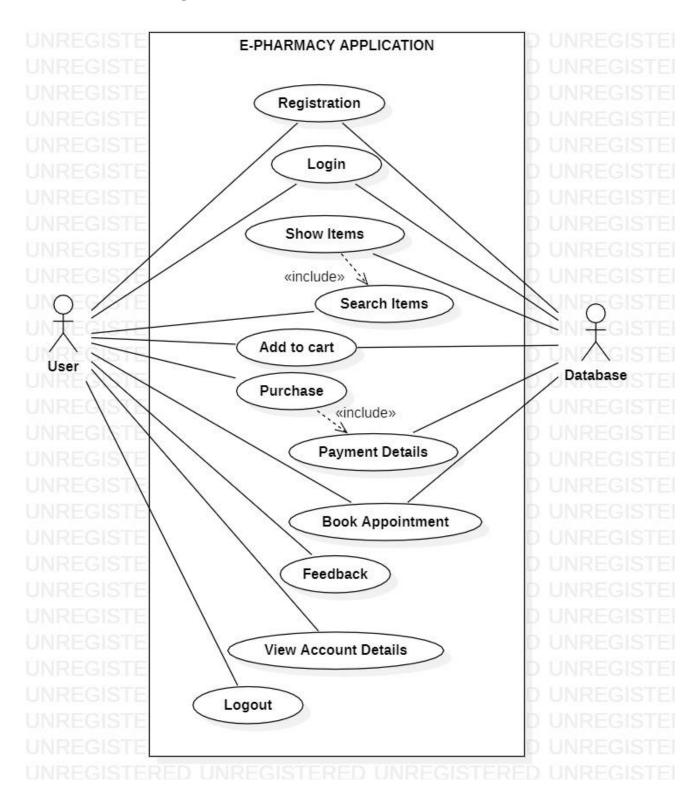
## **CHAPTER 2 - DETAILED DESIGN**

## a. SYSTEM ARCHITECTURE

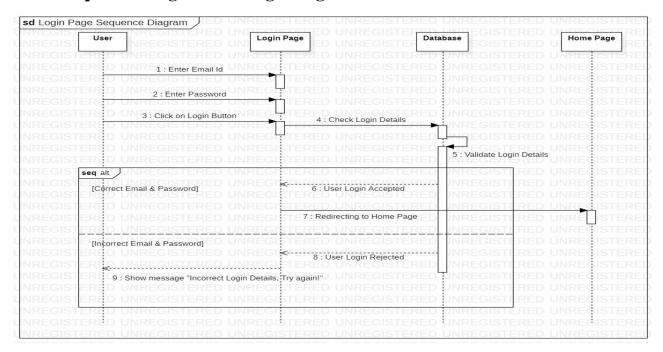


## **CHAPTER 3 - UML DIAGRAMS**

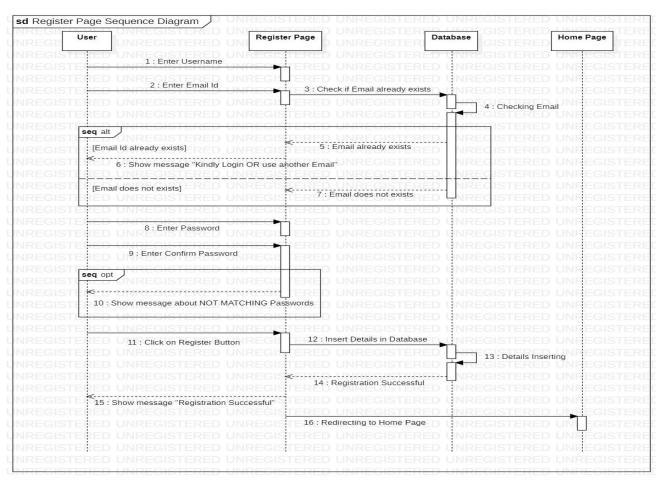
## 1. Use-Case Diagram



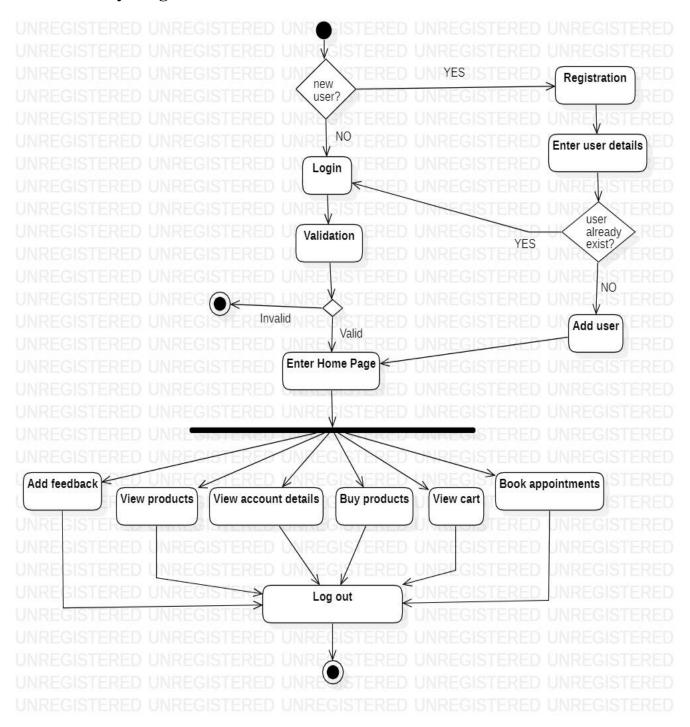
## 2. Sequence Diagram for Login Page



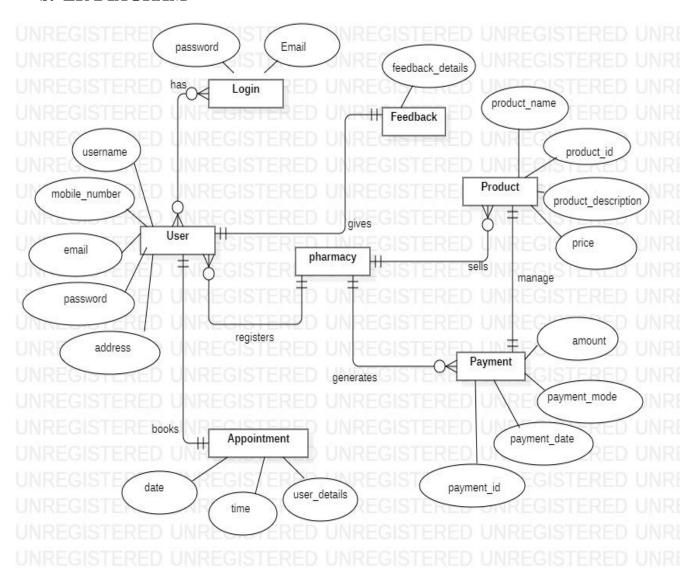
## 3. Sequence Diagram for Register Page



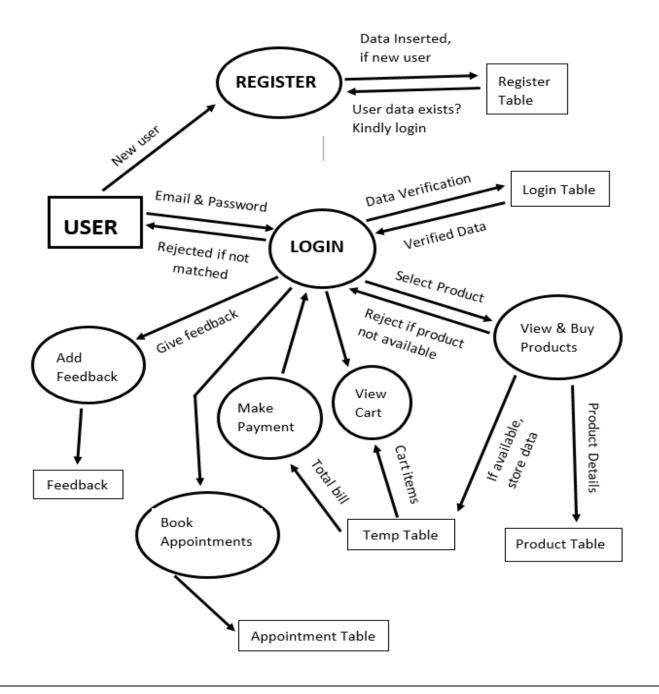
## 4. Activity Diagram



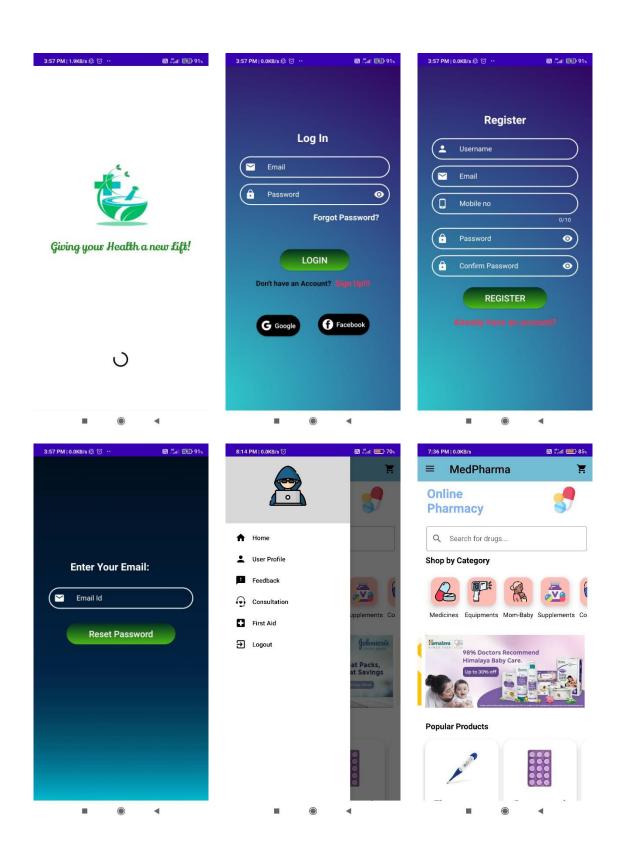
#### b. ER DIAGRAM



## c. DFD - Data Flow Diagram

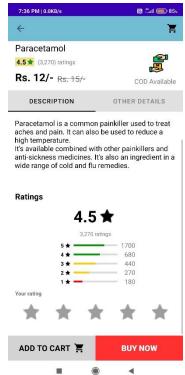


## **CHAPTER 4 - IMPLEMENTATION**

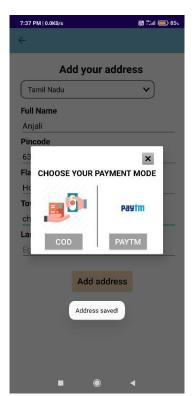


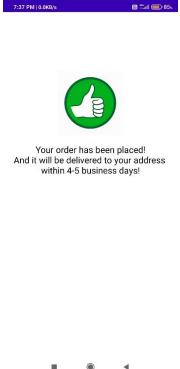


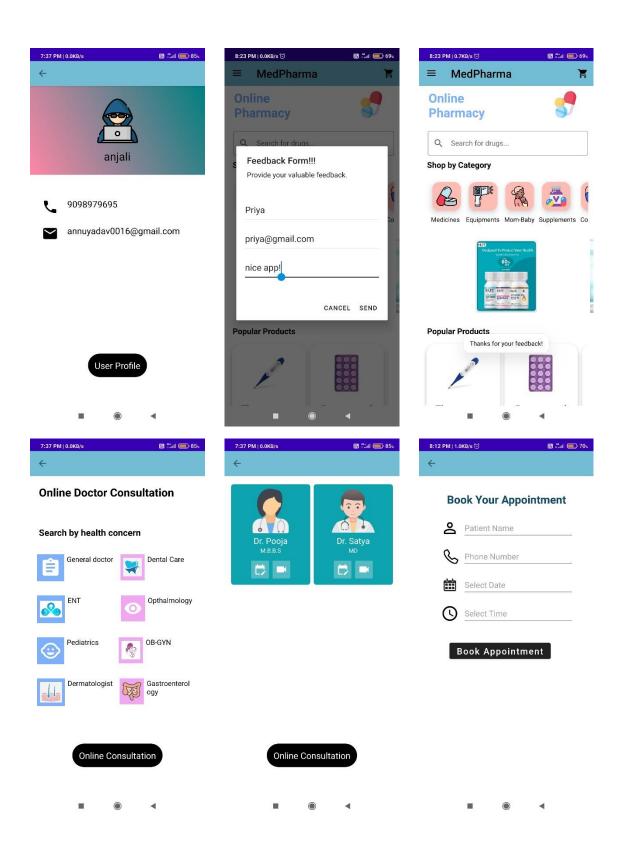


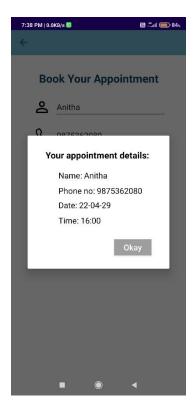


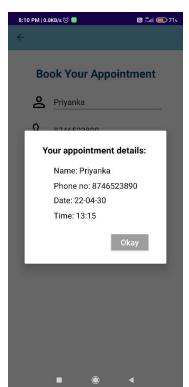




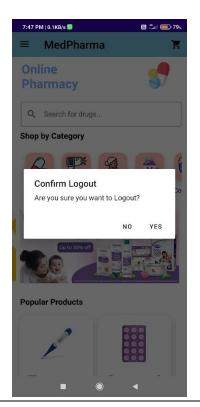


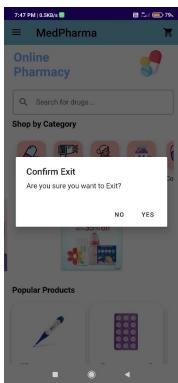






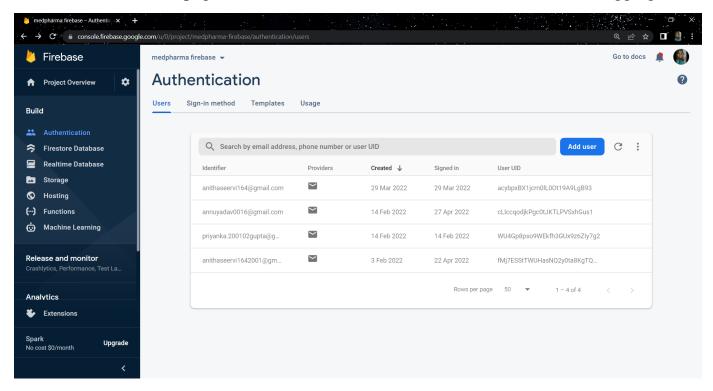




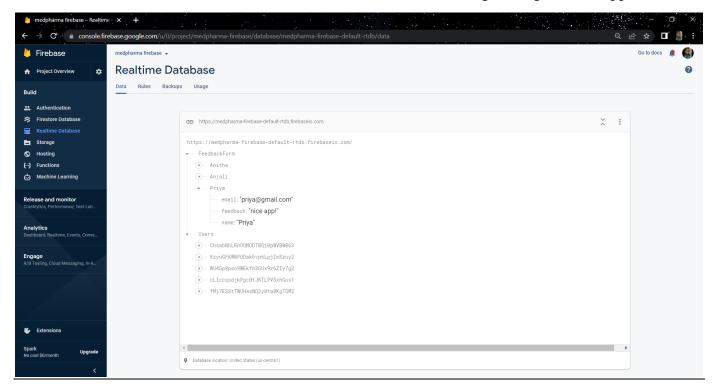


## **CHAPTER 4 - DATABASE (FIREBASE):**

The Authentication page contains the user details to validate the user while logging in.



The Real time database contains the data the user enters while registering into the application.



### CHAPTER 4 – SOURCE CODE

#### **Splash Screen:**

import android.view.Window;

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match parent"
    android:layout_height="match_parent"
    tools:context=".FirstActivity">
    <ImageView
        android:id="@+id/logo"
        android:layout width="160dp"
        android:layout height="160dp"
        android:src="@drawable/first page logo"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical bias="0.343" />
    <TextView
        android:id="@+id/slogan"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:fontFamily="@font/fenix"
        android:text="Giving your Health a new Lift!"
        android:textColor="#228B22"
        android:textSize="26dp"
        android:textStyle="bold"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.494"
        app:layout constraintStart toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/logo"
        app:layout constraintVertical bias="0.047"
        tools:ignore="MissingConstraints" />
    <ProgressBar
        android:id="@+id/progress bar"
        android:layout_width="40dp"
        android:layout height="40dp"
        android:background="@color/white"
        android:indeterminateTint="@color/black"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.871" />
</androidx.constraintlayout.widget.ConstraintLayout>
package com.example.medpharmaapplication;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.os.Handler;
```

```
import android.widget.ImageView;
import android.widget.ProgressBar;
import android.widget.TextView;
import java.util.Timer;
import java.util.TimerTask;
public class FirstActivity extends AppCompatActivity {
   int SPLASH TIME OUT = 3000;
   ProgressBar progressBar;
   TextView slogan;
   ImageView logo;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       requestWindowFeature(Window.FEATURE NO TITLE);
       setContentView(R.layout.activity first);
       progressBar = findViewById(R.id.progress bar);
       slogan = findViewById(R.id.slogan);
       logo = findViewById(R.id.logo);
       logo.animate().translationY(-2000).setDuration(7000).setStartDelay(1500);
       slogan.animate().translationY(2000).setDuration(7000).setStartDelay(1500);
       new Handler().postDelayed(new Runnable() {
            @Override
            public void run() {
                SharedPreferences sharedPreferences = getSharedPreferences(LoginActivity.PREFS NAME,
0);
                boolean hasLoggedIn = sharedPreferences.getBoolean("hasLoggedIn", true);
                if(hasLoggedIn){
                    Intent intent = new Intent(FirstActivity.this, HomeActivity.class);
                    startActivity(intent);
                    finish():
                else{
                    Intent intent = new Intent(FirstActivity.this, LoginActivity.class);
                    startActivity(intent);
                    finish();
       }, SPLASH TIME OUT);
   }
```

#### **Login Page:**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:app="http://schemas.android.com/apk/res-auto"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout_width="match_parent"
   android:layout height="match parent"
   android:background="@drawable/android bgr3"
   tools:context=".LoginActivity">
   <Text.View
        android:id="@+id/login logo"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Log In"
        android:textColor="#FFFFFF"
        android:textColorHighlight="#FFFFFF"
```

```
android:textColorHint="#FFFFFF"
   android:textColorLink="#FFFFFF"
   android:textSize="25sp"
   android:textStyle="bold"
   app:layout constraintBottom toBottomOf="parent"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout constraintHorizontal bias="0.498"
   app:layout constraintStart toStartOf="parent"
   app:layout constraintTop toTopOf="parent"
   app:layout constraintVertical bias="0.195" />
<com.google.android.material.textfield.TextInputLayout</pre>
   style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
   android:id="@+id/email textlayout"
   android:layout width="0dp"
   android:layout_height="wrap content"
   android:layout_marginStart="32dp"
   android:layout_marginTop="20dp"
android:layout_marginEnd="24dp"
   app:boxBackgroundMode="outline"
   app:boxCornerRadiusBottomEnd="70dp"
   app:boxCornerRadiusBottomStart="70dp"
   app:boxCornerRadiusTopEnd="70dp"
   app:boxCornerRadiusTopStart="70dp"
   app:boxStrokeColor="@color/white"
   app:boxStrokeWidth="2dp"
   app:endIconTint="@color/white"
   android:hint="Email"
   android:textColorHint="@color/white"
   app:hintTextColor="@color/white"
   app:placeholderText="eg: abc123@xyz.com"
   app:placeholderTextColor="@color/dark grey"
   app:startIconDrawable="@drawable/ic email"
   app:startIconTint="@color/white"
   app:layout constraintEnd toEndOf="parent"
   app:layout constraintStart toStartOf="parent"
   app:layout_constraintTop_toBottomOf="@+id/login_logo">
   <com.google.android.material.textfield.TextInputEditText</pre>
        android:id="@+id/email1"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:drawablePadding="10dp"
        android:ems="10"
        android:inputType="textEmailAddress"
        android:paddingLeft="20dp"
        android:paddingTop="10dp"
        android:paddingRight="20dp"
        android:paddingBottom="10dp"
        android:textColor="@color/white" />
</com.google.android.material.textfield.TextInputLayout>
<com.google.android.material.textfield.TextInputLayout</pre>
   style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
   android:id="@+id/password textlayout"
   android:layout_width="0dp"
   android:layout height="wrap content"
   android:layout marginTop="8dp"
   app:boxBackgroundMode="outline"
   app:boxCornerRadiusBottomEnd="70dp"
   app:boxCornerRadiusBottomStart="70dp"
   app:boxCornerRadiusTopEnd="70dp"
   app:boxCornerRadiusTopStart="70dp"
   app:boxStrokeColor="@color/white"
   app:boxStrokeWidth="2dp"
   app:endIconMode="password toggle"
   app:endIconTint="@color/white"
   android:hint="Password"
```

```
android:textColorHint="@color/white"
   app:hintTextColor="@color/white"
   app:startIconDrawable="@drawable/ic lock"
   app:startIconTint="@color/white"
   app:layout_constraintEnd toEndOf="@+id/email textlayout"
   app:layout_constraintStart_toStartOf="@+id/email_textlayout"
   app:layout constraintTop toBottomOf="@+id/email textlayout">
   <com.google.android.material.textfield.TextInputEditText</pre>
        android:id="@+id/pass1"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:drawablePadding="10dp"
        android:ems="10"
        android:inputType="textPassword"
        android:paddingLeft="20dp"
        android:paddingTop="10dp"
        android:paddingRight="20dp"
        android:paddingBottom="10dp"
        android:textColor="@color/white">
   </com.google.android.material.textfield.TextInputEditText>
</com.google.android.material.textfield.TextInputLayout>
   android:id="@+id/forgotPass"
   android:layout_width="wrap content"
   android:layout_height="wrap_content"
android:layout_marginTop="15dp"
   android:layout marginEnd="24dp"
   android:pointerIcon="hand"
   android:text="Forgot Password?"
   android:textColor="#FBFAFA"
   android:textSize="18sp"
   android:textStyle="bold"
   app:layout constraintEnd toEndOf="@+id/password textlayout"
   app:layout constraintTop toBottomOf="@+id/password textlayout" />
<androidx.appcompat.widget.AppCompatButton</pre>
   android:id="@+id/login btn"
   android:layout width="0dp"
   android:layout height="wrap content"
   android:layout marginStart="90dp"
   android:layout_marginTop="60dp"
   android:layout_marginEnd="90dp"
   android:background="@drawable/button bg"
   android:pointerIcon="hand"
   android:text="LOGIN"
   android:shadowColor="@color/white"
   android:textSize="20sp"
   android:textColor="@color/white"
   android:textAllCaps="false"
   app:layout constraintEnd toEndOf="@+id/password textlayout"
   app:layout constraintStart toStartOf="@+id/password textlayout"
   app:layout constraintTop toBottomOf="@+id/forgotPass" />
<LinearLayout
   android:id="@+id/linearLayout"
   android:layout width="0dp"
   android:layout height="wrap content"
   android:layout_marginStart="24dp"
   android:layout_marginTop="16dp"
   android:layout marginEnd="24dp"
   android:gravity="center"
   android:orientation="horizontal"
   android:textAlignment="center"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout constraintStart toStartOf="parent"
```

```
app:layout constraintTop toBottomOf="@+id/login btn">
       <TextView
           android:layout width="wrap content"
            android:layout height="wrap content"
            android:text="Don't have an Account?"
            android:textColor="@color/black"
            android:textSize="16sp"
           android:textStyle="bold" />
       <Text.View
            android:id="@+id/textViewSignUp"
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:text=" Sign Up!!!"
            android:textColor="#FF3050"
            android:textSize="18sp"
            android:textStyle="bold" />
   </LinearLayout>
    <androidx.appcompat.widget.AppCompatButton</pre>
       android:id="@+id/btn google"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:layout marginStart="45dp"
       android:layout marginEnd="8dp"
       android:background="@drawable/fb google btn bgr"
       android:drawableLeft="@drawable/ic google"
       android:drawablePadding="7dp"
       android:onClick="open_google"
       android:paddingStart="10dp"
       android:paddingEnd="10dp"
       android:text="Google"
       android:textAllCaps="false"
       android:textColor="@color/white"
       android:textSize="15sp"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toStartOf="@+id/bts fb"
       app:layout_constraintHorizontal bias="0.5"
       app:layout constraintStart toStartOf="parent"
       app:layout constraintTop toBottomOf="@+id/linearLayout"
       app:layout constraintVertical bias="0.262" />
    <androidx.appcompat.widget.AppCompatButton</pre>
       android:id="@+id/bts fb"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:layout marginStart="8dp"
       android:layout_marginEnd="45dp"
       android:background="@drawable/fb google btn bgr"
       android:drawableStart="@drawable/ic fb"
       android:text="Facebook"
       android:paddingStart="10dp"
       android:paddingEnd="10dp"
       android:drawablePadding="7dp"
       android:textAllCaps="false"
       android:textColor="@color/white"
       android:textSize="15sp"
       app:cornerRadius="70dp"
       android:onClick="open fb"
       app:layout constraintBottom toBottomOf="parent"
       app:layout_constraintEnd_toEndOf="parent"
       app:layout constraintHorizontal bias="0.5"
       app:layout constraintStart toEndOf="@+id/btn google"
       app:layout constraintTop toBottomOf="@+id/linearLayout"
       app:layout constraintVertical bias="0.25" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.medpharmaapplication;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.content.SharedPreferences;
import android.graphics.Color;
import android.net.Uri;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.AuthResult;
import com.google.firebase.auth.FirebaseAuth;
public class LoginActivity extends AppCompatActivity {
    public static String PREFS NAME = "MyPrefsFile";
    EditText Email, Password;
    Button Login;
    FirebaseAuth Auth;
    TextView forgotpass;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity login);
        Email = (EditText) findViewById(R.id.email1);
        Password = (EditText) findViewById(R.id.pass1);
        Login = (Button) findViewById(R.id.login btn);
        forgotpass = (TextView) findViewById(R.id.forgotPass);
        Auth = FirebaseAuth.getInstance();
        Login.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
          SharedPreferences sharedPreferences = getSharedPreferences(LoginActivity.PREFS NAME, 0);
                SharedPreferences.Editor editor = sharedPreferences.edit();
                editor.putBoolean("hasLoggedIn", true);
                editor.commit();
                startActivity(new Intent(LoginActivity.this, HomeActivity.class));
                finish();
        });
        Login.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String email = Email.getText().toString();
                String password = Password.getText().toString();
                if (TextUtils.isEmpty(email)) {
                    Email.setError("Email is required");
                    Email.requestFocus();
                    return;
                if (TextUtils.isEmpty(password)) {
                    Password.setError("Password is required");
```

```
Password.requestFocus();
                    return;
                if (password.length() < 6) {</pre>
                    Password.setError("Password must have 6 or more characters");
                    Password.requestFocus();
                    return;
                Auth.signInWithEmailAndPassword(email, password).addOnCompleteListener(new
OnCompleteListener<AuthResult>() {
                    @Override
                    public void onComplete(Task<AuthResult> task) {
                        if(task.isSuccessful()){
                            Toast toast = new Toast(getApplicationContext());
                            TextView tv = new TextView(LoginActivity.this);
                            tv.setBackgroundResource(R.drawable.toast bg);
                            tv.setTextColor(Color.WHITE);
                            tv.setTextSize(20);
                            tv.setText("Logged in successfully");
                            toast.setView(tv);
                            toast.setDuration(Toast.LENGTH LONG);
                            toast.show();
                            Intent intent = new Intent(getApplicationContext(), HomeActivity.class);
                            startActivity(intent);
                            finish();
                        else{
                            Toast toast = new Toast(getApplicationContext());
                            TextView tv = new TextView(LoginActivity.this);
                            tv.setBackgroundResource(R.drawable.toast bg);
                            tv.setTextColor(Color.WHITE);
                            tv.setTextSize(20);
                            tv.setText("Error! " + task.getException().getMessage());
                            toast setView(tv):
                            toast.setDuration(Toast.LENGTH LONG);
                            toast.show();
                        }
                    }
               });
            }
       });
       TextView btn = findViewById(R.id.textViewSignUp);
       btn.setOnClickListener(new View.OnClickListener() {
            public void onClick(View v) {
                startActivity(new Intent(LoginActivity.this, RegisterActivity.class));
                finish();
            }
        forgotpass.setOnClickListener(new View.OnClickListener() {
           @Override
            public void onClick(View view) {
                Intent intent = new Intent(getApplicationContext(), ForgotPasswordActivity.class);
                startActivity(intent);
            }
       });
   }
   public void open google(View view){
       Intent browserIntent = new Intent(Intent.ACTION VIEW, Uri.parse(getString(R.string.Google)));
       startActivity(browserIntent);
    }
```

```
public void open_fb(View view) {
         Intent browserIntent2 = new Intent(Intent.ACTION_VIEW,
Uri.parse(getString(R.string.Facebook)));
         startActivity(browserIntent2);
    }
}
```

#### **Registration Page:**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:app="http://schemas.android.com/apk/res-auto"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout width="match parent"
   android:layout_height="match_parent"
tools:context=".RegisterActivity"
   android:background="@drawable/android bgr3">
   <Text.View
        android:id="@+id/register logo"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Register"
        android:textColor="#FFFFFF"
        android:textColorHighlight="#FFFFFF"
        android:textColorHint="#FFFFFF"
        android:textColorLink="#FFFFFF"
        android:textSize="25sp"
        android:textStyle="bold"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.14" />
    <com.google.android.material.textfield.TextInputLayout</pre>
        style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
        android:id="@+id/uname textlayout"
        android:layout width="0dp"
        android:layout height="wrap content"
        android:layout marginStart="32dp"
        android:layout_marginTop="20dp"
        android:layout marginEnd="32dp"
        app:boxBackgroundMode="outline"
        app:boxCornerRadiusBottomEnd="70dp"
        app:boxCornerRadiusBottomStart="70dp"
        app:boxCornerRadiusTopEnd="70dp"
        app:boxCornerRadiusTopStart="70dp"
        app:boxStrokeColor="@color/white"
        app:boxStrokeWidth="2dp"
        app:endIconTint="@color/white"
        android:hint="Username"
        android:textColorHint="@color/white"
        app:hintTextColor="@color/white"
        app:startIconDrawable="@drawable/ic person"
        app:startIconTint="@color/white"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toBottomOf="@+id/register logo">
        <com.google.android.material.textfield.TextInputEditText</pre>
            android:id="@+id/username"
            android:layout width="match parent"
            android:layout height="wrap content"
            android:drawablePadding="10dp"
```

```
android:ems="10"
        android:inputType="textPersonName"
        android:paddingLeft="20dp"
        android:paddingTop="10dp"
        android:paddingRight="20dp"
        android:paddingBottom="10dp"
        android:textColor="@color/white" />
</com.google.android.material.textfield.TextInputLayout>
<com.google.android.material.textfield.TextInputLayout</pre>
    style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
    android:id="@+id/email textlayout"
    android:layout width="0dp"
    android:layout height="wrap content"
    android:layout marginTop="8dp"
    app:boxBackgroundMode="outline"
    app:boxCornerRadiusBottomEnd="70dp"
    app:boxCornerRadiusBottomStart="70dp"
    app:boxCornerRadiusTopEnd="70dp"
    app:boxCornerRadiusTopStart="70dp"
    app:boxStrokeColor="@color/white"
    app:boxStrokeWidth="2dp"
    app:endIconTint="@color/white"
    android:hint="Email"
    android:textColorHint="@color/white"
    app:hintTextColor="@color/white"
    app:startIconDrawable="@drawable/ic email"
    app:startIconTint="@color/white"
    app:placeholderText="eq: abc123@xyz.com"
    app:placeholderTextColor="@color/dark grey"
    app:layout constraintEnd toEndOf="@+id/uname textlayout"
    app:layout constraintStart toStartOf="@+id/uname textlayout"
    app:layout_constraintTop_toBottomOf="@+id/uname textlayout">
    <com.google.android.material.textfield.TextInputEditText</pre>
        android:id="@+id/email"
        android:layout width="match parent"
        android:layout height="wrap_content"
        android:drawablePadding="10dp"
        android:ems="10"
        android:inputType="textEmailAddress"
        android:paddingLeft="20dp"
        android:paddingTop="10dp"
        android:paddingRight="20dp"
        android:paddingBottom="10dp"
        android:textColor="@color/white" />
</com.google.android.material.textfield.TextInputLayout>
<com.google.android.material.textfield.TextInputLayout</pre>
    style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
    android:id="@+id/phone textlayout"
    android:layout width="0dp"
    android:layout height="wrap content"
    android:layout_marginTop="8dp"
    app:boxBackgroundMode="outline"
    app:boxCornerRadiusBottomEnd="70dp"
    app:boxCornerRadiusBottomStart="70dp"
    app:boxCornerRadiusTopEnd="70dp"
    app:boxCornerRadiusTopStart="70dp"
    app:boxStrokeColor="@color/white"
    app:boxStrokeWidth="2dp"
    app:endIconTint="@color/white"
    android:hint="Mobile no"
    android:textColorHint="@color/white"
    app:hintTextColor="@color/white"
    app:startIconDrawable="@drawable/ic phone"
    app:startIconTint="@color/white"
```

```
app:prefixText="+91"
    app:prefixTextColor="@color/white"
    app:counterEnabled="true"
    app:counterMaxLength="10"
    app:counterTextColor="@color/white"
    app:layout_constraintEnd toEndOf="@+id/email textlayout"
    app:layout constraintStart toStartOf="@+id/email textlayout"
    app:layout constraintTop toBottomOf="@+id/email textlayout">
    <com.google.android.material.textfield.TextInputEditText</pre>
        android:id="@+id/phone"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:drawablePadding="10dp"
        android:ems="10"
        android:inputType="textPhonetic"
        android:paddingLeft="20dp"
        android:paddingTop="10dp"
        android:paddingRight="20dp"
        android:paddingBottom="10dp"
        android:textColor="@color/white" />
</com.google.android.material.textfield.TextInputLayout>
<com.google.android.material.textfield.TextInputLayout</pre>
    style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
    android:id="@+id/pass textlayout"
    android:layout_width="0dp"
   android:layout_height="wrap_content"
android:layout_marginTop="5dp"
    app:boxBackgroundMode="outline"
    app:boxCornerRadiusBottomEnd="70dp"
    app:boxCornerRadiusBottomStart="70dp"
    app:boxCornerRadiusTopEnd="70dp"
    app:boxCornerRadiusTopStart="70dp"
    app:boxStrokeColor="@color/white"
    app:boxStrokeWidth="2dp"
    app:endIconMode="password toggle"
    app:endIconTint="@color/white"
    android:hint="Password"
    android:textColorHint="@color/white"
    app:hintTextColor="@color/white"
    app:startIconDrawable="@drawable/ic lock"
    app:startIconTint="@color/white"
    app:layout_constraintEnd_toEndOf="@+id/phone textlayout"
    app:layout_constraintStart_toStartOf="@+id/phone textlayout"
    app:layout constraintTop toBottomOf="@+id/phone textlayout">
    <com.google.android.material.textfield.TextInputEditText</pre>
        android:id="@+id/pass"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:drawablePadding="10dp"
        android:ems="10"
        android:inputType="textPassword"
        android:paddingLeft="20dp"
        android:paddingTop="10dp"
        android:paddingRight="20dp"
        android:paddingBottom="10dp"
        android:textColor="@color/white" />
</com.google.android.material.textfield.TextInputLayout>
<com.google.android.material.textfield.TextInputLayout</pre>
    style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
    android:id="@+id/Cpass textlayout"
    android:layout width="0dp"
    android:layout_height="wrap content"
    android:layout marginTop="8dp"
```

```
app:boxBackgroundMode="outline"
        app:boxCornerRadiusBottomEnd="70dp"
        app:boxCornerRadiusBottomStart="70dp"
        app:boxCornerRadiusTopEnd="70dp"
        app:boxCornerRadiusTopStart="70dp"
        app:boxStrokeColor="@color/white"
        app:boxStrokeWidth="2dp"
        app:endIconMode="password toggle"
        app:endIconTint="@color/white"
        android:hint="Confirm Password"
        android:textColorHint="@color/white"
        app:hintTextColor="@color/white"
        app:startIconDrawable="@drawable/ic lock"
        app:startIconTint="@color/white"
        app:layout constraintEnd toEndOf="@+id/pass textlayout"
        app:layout constraintStart toStartOf="@+id/pass textlayout"
        app:layout_constraintTop_toBottomOf="@+id/pass textlayout">
        <com.google.android.material.textfield.TextInputEditText</pre>
            android:id="@+id/ConfirmPass"
            android:layout width="match parent"
            android:layout_height="wrap_content"
            android:drawablePadding="10dp"
            android:ems="10"
            android:inputType="textPassword"
            android:paddingLeft="20dp"
            android:paddingTop="10dp"
            android:paddingRight="20dp"
            android:paddingBottom="10dp"
            android:textColor="@color/white"/>
    </com.google.android.material.textfield.TextInputLayout>
    <androidx.appcompat.widget.AppCompatButton</pre>
        android:id="@+id/register btn"
        android:layout width="0dp"
        android:layout height="wrap content"
        android:layout marginStart="70dp"
        android:layout marginTop="24dp"
        android:layout_marginEnd="70dp"
        android:background="@drawable/button bg"
        android:text="REGISTER"
        android:textColor="@color/white"
        android:pointerIcon="hand"
        android:textSize="20sp"
        app:layout constraintEnd toEndOf="@+id/Cpass textlayout"
        app:layout_constraintStart_toStartOf="@+id/Cpass textlayout"
        app:layout constraintTop toBottomOf="@+id/Cpass textlayout" />
    <TextView
        android:id="@+id/alreadyAccount"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout marginTop="16dp"
        android:text="Already have an account?"
        android:pointerIcon="hand"
        android:textStyle="bold"
        android:textColor="#FF3050"
        android:textSize="20sp"
        app:layout constraintEnd toEndOf="@+id/register btn"
        app:layout constraintStart toStartOf="@+id/register btn"
        app:layout_constraintTop toBottomOf="@+id/register btn" />
</androidx.constraintlayout.widget.ConstraintLayout>
package com.example.medpharmaapplication;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.Intent;
import android.graphics.Color;
import android.os.Bundle;
import android.telephony.PhoneNumberUtils;
import android.text.TextUtils;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
import com.google.android.gms.auth.api.Auth;
import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.AuthResult;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.database.FirebaseDatabase;
public class RegisterActivity extends AppCompatActivity {
    EditText Username, Password, Email, Phone, Repassword;
    Button Signup;
    FirebaseAuth Auth;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity register);
        Username = (EditText) findViewById(R.id.username);
        Password = (EditText) findViewById(R.id.pass);
        Email = (EditText) findViewById(R.id.email);
        Phone = (EditText) findViewById(R.id.phone);
        Repassword = (EditText) findViewById(R.id.ConfirmPass);
        Signup = (Button) findViewById(R.id.register btn);
        Auth = FirebaseAuth.getInstance();
        if (Auth.getCurrentUser() != null) {
            Intent intent = new Intent(getApplicationContext(), HomeActivity.class);
            startActivity(intent);
            finish();
        }
        Signup.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String username = Username.getText().toString();
                String email = Email.getText().toString();
                String phone = Phone.getText().toString();
                String password = Password.getText().toString();
                String repassword = Repassword.getText().toString();
                if (TextUtils.isEmpty(username)) {
                    Username.setError("Username is required!");
                    Username.requestFocus();
                    return;
                if (TextUtils.isEmpty(email)) {
                    Email.setError("Email is required!");
                    Email.requestFocus();
                    return;
                if (TextUtils.isEmpty(phone)) {
                    Phone.setError("Mobile no is required!");
                    Phone.requestFocus();
                    return;
                if (TextUtils.isEmpty(password)) {
                    Password.setError("Password is required!");
                    Password.requestFocus();
                    return;
```

```
if (TextUtils.isEmpty(repassword)) {
                    Repassword.setError("Password is required!");
                    Repassword.requestFocus();
                    return;
                if (password.length() < 6) {</pre>
                    Password.setError("Password must have 6 or more characters");
                    Password.requestFocus();
                    return;
                }
                if (password.equals(repassword)) {
                    Auth.createUserWithEmailAndPassword(email, password).addOnCompleteListener(new
OnCompleteListener<AuthResult>() {
                        @Override
                        public void onComplete(Task<AuthResult> task) {
                            if (task.isSuccessful()) {
                                User user = new User(username, email, phone);
FirebaseDatabase.getInstance().getReference("Users").child(FirebaseAuth.getInstance().getCurrentUser(
).getUid()).setValue(user).addOnCompleteListener(new OnCompleteListener<Void>() {
                                     @Override
                                    public void onComplete(@NonNull Task<Void> task) {
                                        if(task.isSuccessful()){
                                             Toast toast = new Toast(getApplicationContext());
                                             TextView tv = new TextView(RegisterActivity.this);
                                             tv.setBackgroundResource(R.drawable.toast bg);
                                             tv.setTextColor(Color.WHITE);
                                             tv.setTextSize(20);
                                             tv.setText("Registration successful");
                                             toast.setView(tv);
                                             toast.setDuration(Toast.LENGTH LONG);
                                             toast.show();
                  Intent intent = new Intent(getApplicationContext(), HomeActivity.class);
                                             startActivity(intent);
                                             finish();
                                         1
                                });
                            } else {
                                Toast toast = new Toast(getApplicationContext());
                                TextView tv = new TextView(RegisterActivity.this);
                                tv.setBackgroundResource(R.drawable.toast bg);
                                tv.setTextColor(Color.WHITE);
                                tv.setTextSize(20);
                                tv.setText("Error! " + task.getException().getMessage());
                                toast.setView(tv);
                                toast.setDuration(Toast.LENGTH LONG);
                                toast.show();
                            }
                        }
                    });
                else {
                    Toast toast = new Toast(getApplicationContext());
                    TextView tv = new TextView(RegisterActivity.this);
                    tv.setBackgroundResource(R.drawable.toast bg);
                    tv.setTextColor(Color.WHITE);
                    tv.setTextSize(20);
                    tv.setText("Passwords are not matching");
                    toast.setView(tv);
                    toast.setDuration(Toast.LENGTH LONG);
                    toast.show();
                }
            }
```

```
TextView btn = findViewById(R.id.alreadyAccount);
btn.setOnClickListener(new View.OnClickListener() {
    public void onClick(View view) {
        startActivity(new Intent(RegisterActivity.this, LoginActivity.class));
        finish();
    }
});
}
```

#### **Forgot Password Page:**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout_height="match_parent"
tools:context=".Appointment">
    <com.google.android.material.appbar.AppBarLayout</pre>
        android:id="@+id/appBarLayout"
        android:layout_width="match_parent"
        android:layout height="wrap content"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        tools:ignore="MissingConstraints">
        <androidx.appcompat.widget.Toolbar</pre>
            android:id="@+id/toolbar2"
            android:layout width="match parent"
            android:layout height="?attr/actionBarSize"
            android:background="#72BCD4" />
    </com.google.android.material.appbar.AppBarLayout>
    <TextView
        android:id="@+id/textView"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:layout marginTop="36dp"
        android:gravity="center"
        android:text="Book Your Appointment"
        android:textColor="#144A67"
        android:textSize="25dp"
        android:textStyle="bold"
        app:layout constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal bias="0.505"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toBottomOf="@+id/appBarLayout" />
    <EditText
        android:id="@+id/nameEditText"
        android:layout width="250dp"
        android:layout height="wrap content"
        android:ems="10"
        android:hint="Patient Name"
        android:inputType="textPersonName"
        android:minHeight="48dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.227"
```

```
app:layout constraintStart toEndOf="@+id/n1"
    app:layout_constraintTop toBottomOf="@+id/textView"
    app:layout constraintVertical bias="0.04" />
< ImageView
    android:id="@+id/n1"
    android:layout width="40dp"
    android:layout height="40dp"
    android:layout marginStart="40dp"
    android:layout marginTop="28dp"
    app:layout_constraintEnd_toStartOf="@+id/nameEditText"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView"
    app:srcCompat="@drawable/appointment person icon" />
<EditText
    android:id="@+id/phoneEditText"
    android:layout width="250dp"
    android:layout height="wrap content"
    android:layout marginTop="16dp"
    android:layout_marginEnd="44dp"
    android:ems="10"
    android:hint="Phone Number"
    android:inputType="textPersonName"
    android:minHeight="48dp"
    app:layout constraintEnd toEndOf="parent"
    app:layout_constraintHorizontal bias="0.0"
    app:layout_constraintStart_toStartOf="@+id/nameEditText"
    app:layout_constraintTop toBottomOf="@+id/nameEditText" />
<ImageView
    android:id="@+id/number"
    android:layout width="35dp"
    android:layout_height="40dp"
    android:layout marginLeft="5dp"
    android:layout marginTop="24dp"
    app:layout constraintEnd toStartOf="@+id/phoneEditText"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="@+id/n1"
    app:layout constraintTop toBottomOf="@+id/n1"
    app:srcCompat="@drawable/appointment phone icon" />
<EditText
    android:id="@+id/dateEditText"
    android:layout width="250dp"
    android:layout height="wrap content"
    android:layout marginTop="16dp"
    android:layout_marginEnd="44dp"
    android:ems="10"
    android:hint="Select Date"
    android:inputType="textPersonName"
    android:minHeight="48dp"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.0"
    app:layout_constraintStart_toStartOf="@+id/phoneEditText"
    app:layout_constraintTop_toBottomOf="@+id/phoneEditText" />
<ImageView</pre>
   android:id="@+id/book"
    android:layout width="40dp"
    android:layout height="40dp"
    android:layout_marginTop="24dp"
    app:layout constraintEnd toStartOf="@+id/dateEditText"
    app:layout constraintHorizontal bias="0.0"
    app:layout constraintStart toStartOf="@+id/n1"
    app:layout constraintTop toBottomOf="@+id/number"
    app:srcCompat="@drawable/appointment calender icon" />
```

```
<EditText
        android:id="@+id/timeEditText"
        android:layout width="250dp"
        android:layout height="wrap content"
        android:layout_marginTop="16dp"
        android:layout marginEnd="44dp"
        android:ems="10"
        android:hint="Select Time"
        android:inputType="textPersonName"
        android:minHeight="48dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout constraintStart toStartOf="@+id/dateEditText"
        app:layout_constraintTop_toBottomOf="@+id/dateEditText" />
    <ImageView
        android:id="@+id/book2"
        android:layout width="40dp"
        android:layout height="40dp"
        android:layout marginTop="24dp"
        app:layout constraintEnd toStartOf="@+id/timeEditText"
        app:layout_constraintHorizontal bias="0.0"
        app:layout_constraintStart_toStartOf="@+id/n1"
        app:layout constraintTop toBottomOf="@+id/book"
        app:srcCompat="@drawable/appointment clock icon" />
    <Button
        android:id="@+id/book btn"
       android:layout_width="wrap_content"
android:layout_height="wrap_content"
        android:layout marginTop="36dp"
        android:text="Book Appointment"
        android:textAllCaps="false"
        android:textAlignment="center"
        android:textSize="20dp"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.416"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toBottomOf="@+id/timeEditText" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

#### **Home Page:**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.drawerlayout.widget.DrawerLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   xmlns:app="http://schemas.android.com/apk/res-auto"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout width="match parent"
   android:layout height="match parent"
   tools:context=".HomeActivity
   android:id="@+id/drawerlayout"
   android:fitsSystemWindows="true"
   tools:openDrawer="start">
   <com.google.android.material.navigation.NavigationView</pre>
       android:id="@+id/navigationView"
       android:layout width="wrap content"
       android:layout height="match parent"
       app:headerLayout="@layout/headerfile"
       app:menu="@menu/sidemenu"
       android:layout gravity="start"/>
   <ScrollView
       android:layout width="match parent"
       android:layout height="match parent">
```

```
<androidx.constraintlayout.widget.ConstraintLayout</pre>
    android:layout width="match parent"
    android:layout height="match parent">
<androidx.appcompat.widget.Toolbar</pre>
    android:id="@+id/toolbar"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:background="@color/light blue"
    android:theme="@android:style/ThemeOverlay.Material.Dark.ActionBar"
    app:titleTextColor="@color/black"
    app:titleTextAppearance="@style/Toolbar.TitleText"
    tools:ignore="MissingConstraints"
    tools:layout editor absoluteX="72dp"
    tools:layout editor absoluteY="-1dp">
</androidx.appcompat.widget.Toolbar>
    <ScrollView
        android:layout width="match parent"
        android:layout height="wrap content"
        android:id="@+id/scroll view menu"/>
    <TextView
        android:id="@+id/tv online pharmacy"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout marginTop="8dp"
        android:text="@string/online pharmacy"
        android:textColor="@color/color 8"
        android:textSize="28sp"
        android:textStyle="bold"
        app:layout_constraintEnd toStartOf="@+id/image logo"
        app:layout_constraintHorizontal_bias="0.128"
        app:layout_constraintStart toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/toolbar" />
    <ImageView</pre>
        android:id="@+id/image logo"
        android:layout_width="70dp"
        android:layout height="60dp"
        android:layout alignParentEnd="true"
        android:layout marginTop="12dp"
        android:layout marginEnd="28dp"
        android:src="@drawable/pills1"
        app:layout_constraintBottom_toBottomOf="@+id/tv online pharmacy"
        app:layout constraintEnd toEndOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/toolbar"
        app:layout constraintVertical bias="0.0" />
    <LinearLayout
        android:id="@+id/top linear layout"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:focusableInTouchMode="true"
        android:orientation="vertical"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintTop toBottomOf="@+id/tv online pharmacy"
        app:layout constraintVertical bias="0.026"
        tools:layout editor absoluteX="16dp">
        <com.google.android.material.textfield.TextInputLayout</pre>
            android:id="@+id/text input layout search"
            style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
            android:layout width="360dp"
            android:layout height="wrap content"
            android:layout_marginLeft="20dp"
            android:layout marginTop="5dp"
```

```
android:gravity="center"
        android:hint="@string/hint search"
        app:hintTextColor="@color/black"
        app:startIconDrawable="@drawable/ic baseline search 24">
        <com.google.android.material.textfield.TextInputEditText</pre>
            android:id="@+id/edit text search"
            android:layout width="match parent"
            android:layout height="wrap content"
            android:inputType="text"
            android:textColor="@color/black"
            android:textColorHint="@color/black"
            app:hintTextColor="@color/black" />
    </com.google.android.material.textfield.TextInputLayout>
    <TextView
        android:id="@+id/tv_shop_by_category"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout marginLeft="18dp"
        android:layout marginTop="8dp"
        android:text="@string/shop_by_category"
        android:textColor="@color/black"
        android:textSize="18dp"
        android:textStyle="bold" />
    <HorizontalScrollView</pre>
        android:id="@+id/horizontal shop"
        android:layout_width="match_parent"
android:layout_height="wrap_content"
        android:scrollbars="none"
        android:layout margin="12dp">
        <LinearLayout
            android:id="@+id/linear layout shop"
            android:layout width="match parent"
            android:layout height="wrap content"
            android:orientation="horizontal" />
    </HorizontalScrollView>
</LinearLavout>
<androidx.viewpager.widget.ViewPager</pre>
    android:id="@+id/banner viewPager"
    android:layout width="match parent"
    android:layout_height="180dp"
    android:layout_marginTop="16dp"
    android:paddingLeft="16dp"
    android:paddingTop="8dp"
    android:paddingRight="16dp"
    android:paddingBottom="8dp"
    app:layout_constraintEnd toEndOf="parent"
    app:layout_constraintHorizontal bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/top linear layout" />
<LinearLayout
    android:id="@+id/bottom linear layout"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout marginTop="16dp"
    android:focusableInTouchMode="true"
    android:orientation="vertical"
    app:layout_constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.0"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/banner viewPager">
    <TextView
        android:id="@+id/tv popular products"
```

```
android:layout width="wrap content"
    android:layout height="wrap content"
   android:layout marginLeft="18dp"
   android:layout marginTop="5dp"
    android:text="@string/popular_products"
    android:textColor="@color/black"
    android:textSize="18dp"
   android:textStyle="bold" />
<HorizontalScrollView</pre>
   android:id="@+id/horizontal_products"
    android:layout width="match parent"
    android:layout height="wrap content"
   android:scrollbars="none"
   android:layout margin="12dp">
    <LinearLayout
        android:id="@+id/linear layout products"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:orientation="horizontal" >
        <androidx.cardview.widget.CardView</pre>
            android:id="@+id/thermometer layout"
            android:layout width="165dp"
            android:layout height="200dp"
            android:layout margin="5dp"
            app:cardCornerRadius="20dp"
            app:cardElevation="10dp">
            <LinearLayout
                android:layout width="match parent"
                android:layout height="match parent"
                android:gravity="center horizontal"
                android:orientation="vertical">
                <ImageView</pre>
                    android:layout width="110dp"
                    android:layout height="110dp"
                    android:layout_marginTop="10dp"
                    android:src="@drawable/thermometer1" />
                <TextView
                    android:layout width="wrap content"
                    android:layout_height="wrap content"
                    android:layout marginTop="10dp"
                    android:textColor="@color/black"
                    android:textStyle="bold"
                    android:text="Thermometer"
                    android:textSize="20sp" />
                <TextView
                    android:layout width="wrap content"
                    android:layout height="wrap content"
                    android:layout marginTop="5dp"
                    android:layout marginLeft="-30dp"
                    android:text="Rs.349/-"
                    android:textColor="@color/black"
                    android:textSize="18sp" />
                    android:layout width="wrap content"
                    android:layout height="wrap content"
                    android:layout marginLeft="45dp"
                    android:layout marginTop="-23dp"
                    android:text="Rs. 399/-"
                    android:textSize="15sp" />
                <View
```

```
android:id="@+id/divider"
            android:layout marginLeft="43dp"
            android:layout marginTop="-10dp"
            android:layout width="55dp"
            android:layout_height="ldp"
            android:background="#80000000" />
    </LinearLayout>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView</pre>
    android:id="@+id/pcm_layout"
    android:layout width="165dp"
    android:layout height="200dp"
    android:layout_margin="5dp"
    app:cardCornerRadius="20dp"
    app:cardElevation="10dp">
    <LinearLavout
        android:layout width="match parent"
        android:layout_height="match parent"
        android:gravity="center horizontal"
        android:orientation="vertical">
        <ImageView</pre>
            android:layout width="110dp"
            android:layout_height="110dp"
            android:layout marginTop="10dp"
            android:src="@drawable/pcm1" />
        <TextView
            android:layout width="wrap content"
            android:layout_height="wrap_content"
            android:layout marginTop="10dp"
            android:textColor="@color/black"
            android:text="Paracetamol"
            android:textStyle="bold"
            android:textSize="20sp" />
        <TextView
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:layout marginTop="5dp"
            android:layout_marginLeft="-30dp"
            android:text="Rs.12/-"
            android:textColor="@color/black"
            android:textSize="18sp" />
        <TextView
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:layout marginLeft="45dp"
            android:layout marginTop="-23dp"
            android:text="Rs. 15/-"
            android:textSize="15sp" />
        <View
            android:id="@+id/divider2"
            android:layout_marginLeft="43dp"
            android:layout marginTop="-10dp"
            android:layout_width="55dp"
            android:layout height="1dp"
            android:background="#80000000" />
    </LinearLayout>
</androidx.cardview.widget.CardView>
```

```
<androidx.cardview.widget.CardView</pre>
    android:id="@+id/mask layout"
    android:layout width="165dp"
    android:layout height="200dp"
    android:layout margin="5dp"
    app:cardCornerRadius="20dp"
    app:cardElevation="10dp">
    <LinearLayout
        android:layout width="match parent"
        android:layout_height="match parent"
        android:gravity="center horizontal"
        android:orientation="vertical">
        <ImageView</pre>
            android:layout width="110dp"
            android:layout_height="110dp"
            android:layout marginTop="10dp"
            android:src="@drawable/mask1" />
        <TextView
            android:layout width="wrap content"
            android:layout_height="wrap_content"
            android:layout marginTop="10dp"
            android:textColor="@color/black"
            android:textStyle="bold"
            android:text="Surgical mask"
            android:textSize="20sp" />
        <TextView
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:layout marginTop="5dp"
            android:layout marginLeft="-30dp"
            android:text="Rs.149/-"
            android:textColor="@color/black"
            android:textSize="18sp" />
        <TextView
            android:layout_width="wrap_content"
            android:layout height="wrap content"
            android:layout marginLeft="45dp"
            android:layout marginTop="-23dp"
            android:text="Rs. 179/-"
            android:textSize="15sp" />
        <View
            android:id="@+id/divider3"
            android:layout marginLeft="43dp"
            android:layout marginTop="-10dp"
            android:layout_width="55dp"
            android:layout height="1dp"
            android:background="#80000000" />
    </LinearLayout>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView</pre>
   android:id="@+id/diapers layout"
    android:layout width="165dp"
    android:layout_height="200dp"
    android:layout margin="5dp"
    app:cardCornerRadius="20dp"
    app:cardElevation="10dp">
    <LinearLayout
        android:layout_width="match parent"
        android:layout height="match parent"
```

```
android:gravity="center horizontal"
                            android:orientation="vertical">
                            <ImageView
                                android:layout width="110dp"
                                 android:layout_height="110dp"
                                 android:layout marginTop="10dp"
                                android:textColor="@color/black"
                                android:src="@drawable/diapers1" />
                            <TextView
                                 android:layout width="wrap content"
                                android:layout height="wrap content"
                                android:layout marginTop="10dp"
                                android:textColor="@color/black"
                                android:textStyle="bold"
                                android:text="Baby Diapers"
                                android:textSize="20sp" />
                            <TextView
                                android:layout width="wrap content"
                                android:layout_height="wrap content"
                                android:layout_marginTop="5dp"
                                 android:layout marginLeft="-30dp"
                                android:text="Rs.547/-"
                                android:textColor="@color/black"
                                android:textSize="18sp" />
                            <TextView
                                android:layout width="wrap content"
                                android:layout height="wrap content"
                                android:layout marginLeft="45dp"
                                android:layout marginTop="-23dp"
                                android:text="Rs. 599/-"
                                android:textSize="15sp" />
                                android:id="@+id/divider4"
                                android:layout marginLeft="43dp"
                                android:layout_marginTop="-10dp"
                                android:layout_width="55dp"
android:layout_height="1dp"
                                android:background="#80000000" />
                        </LinearLayout>
                    </androidx.cardview.widget.CardView>
                </LinearLayout>
            </HorizontalScrollView>
        </LinearLayout>
    </androidx.constraintlayout.widget.ConstraintLayout>
    </ScrollView>
</androidx.drawerlayout.widget.DrawerLayout>
package com.example.medpharmaapplication;
import androidx.annotation.NonNull;
import androidx.appcompat.app.ActionBar;
import androidx.appcompat.app.ActionBarDrawerToggle;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.widget.Toolbar;
import androidx.cardview.widget.CardView;
import androidx.core.view.GravityCompat;
import androidx.drawerlayout.widget.DrawerLayout;
import androidx.viewpager.widget.ViewPager;
import android.annotation.SuppressLint;
import android.content.DialogInterface;
import android.content.Intent;
```

```
import android.graphics.Color;
import android.os.Bundle;
import android.os.Handler;
import android.provider.ContactsContract;
import android.telecom.CallRedirectionService;
import android.text.TextUtils;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuItem;
import android.view.MotionEvent;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.LinearLayout;
import android.widget.TextView;
import android.widget.Toast;
import com.google.android.material.navigation.NavigationView;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
import com.google.firebase.database.DataSnapshot;
import com.google.firebase.database.DatabaseError;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.ValueEventListener;
import com.rengwuxian.materialedittext.MaterialEditText;
import java.util.ArrayList;
import java.util.List;
import java.util.Timer;
import java.util.TimerTask;
public class HomeActivity extends AppCompatActivity {
    CardView thermometer layout, diapers layout, pcm layout, mask layout;
    DrawerLayout drawerLayout;
    NavigationView navigationView;
    Toolbar toolbar;
    FirebaseAuth Auth;
    LinearLayout linearLayoutShop, linearLayoutProduct;
    ImageView medicine, equipments, mombaby, supplements, covid;
    TextView tymedicine, tyequipments, tymombaby, tysupplements, tycovid;
    private ViewPager bannerSliderViewPager;
    private List<SliderModel> sliderModelList;
    private int currentPage = 2;
    private Timer timer;
    final private long DELAY = 2000;
    final private long PERIOD = 2000;
    int[] imageShop = {R.drawable.farmco, R.drawable.equipments, R.drawable.momandbaby,
R.drawable.supplements, R.drawable.covid);
    String[] namesItemShop = {"Medicines", "Equipments", "Mom-Baby", "Supplements", "Covid Essentials"};
    public HomeActivity() {
    }
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity home);
        thermometer layout = (CardView) findViewById(R.id.thermometer layout);
        diapers layout = (CardView) findViewById(R.id.diapers layout);
        pcm layout = (CardView) findViewById(R.id.pcm layout);
        mask layout = (CardView) findViewById(R.id.mask layout);
        thermometer layout.setOnClickListener(new View.OnClickListener() {
```

```
public void onClick(View view) {
                Intent intent = new Intent(HomeActivity.this, ThermometerDescActivity.class);
                startActivity(intent);
            }
        });
        diapers layout.setOnClickListener(new View.OnClickListener() {
           @Override
            public void onClick(View view) {
                Intent intent = new Intent(HomeActivity.this, DiapersDescActivity.class);
                startActivity(intent);
        });
        mask layout.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent = new Intent(HomeActivity.this, MaskDescActivity.class);
                startActivity(intent);
        });
        pcm layout.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent = new Intent(HomeActivity.this, PCM DescActivity.class);
                startActivity(intent);
            }
        });
        bannerSliderViewPager = findViewById(R.id.banner viewPager);
        sliderModelList = new ArrayList<SliderModel>();
        sliderModelList.add(new SliderModel(R.drawable.ad4));
        sliderModelList.add(new SliderModel(R.drawable.ad5));
        sliderModelList.add(new SliderModel(R.drawable.ad1));
        sliderModelList.add(new SliderModel(R.drawable.ad2));
        sliderModelList.add(new SliderModel(R.drawable.ad3));
        sliderModelList.add(new SliderModel(R.drawable.ad4));
        sliderModelList.add(new SliderModel(R.drawable.ad5));
        sliderModelList.add(new SliderModel(R.drawable.ad1));
        sliderModelList.add(new SliderModel(R.drawable.ad2));
        SliderAdapter sliderAdapter = new SliderAdapter(sliderModelList);
        bannerSliderViewPager.setAdapter(sliderAdapter);
        bannerSliderViewPager.setClipToPadding(false);
        bannerSliderViewPager.setPageMargin(20);
        linearLayoutShop = findViewById(R.id.linear layout shop);
        linearLayoutProduct = findViewById(R.id.linear layout products);
        loadShop();
        drawerLayout = findViewById(R.id.drawerlayout);
        navigationView = findViewById(R.id.navigationView);
        navigationView.bringToFront();
        toolbar = findViewById(R.id.toolbar);
        setSupportActionBar(toolbar);
        ActionBarDrawerToggle toggle = new ActionBarDrawerToggle(this, drawerLayout, toolbar,
R.string.navigation open, R.string.navigation close);
       drawerLayout.addDrawerListener(toggle);
        toggle.setHomeAsUpIndicator(R.drawable.ic navigation drawer icon);
        toggle.syncState();
```

@Override

```
navigationView.setNavigationItemSelectedListener(new
NavigationView.OnNavigationItemSelectedListener() {
            @Override
            public boolean onNavigationItemSelected(@NonNull MenuItem item) {
                Toast toast = new Toast(getApplicationContext());
                TextView tv = new TextView(HomeActivity.this);
                switch (item.getItemId()) {
                    case R.id.home :
                        tv.setBackgroundResource(R.drawable.toast bg);
                        tv.setTextColor(Color.WHITE);
                        tv.setTextSize(20);
                        tv.setText("Home page");
                        toast.setView(tv);
                        toast.setDuration(Toast.LENGTH LONG);
                        toast.show();
                        drawerLayout.closeDrawer(GravityCompat.START);
                    case R.id.userprofile:
                        tv.setBackgroundResource(R.drawable.toast bg);
                        tv.setTextColor(Color.WHITE);
                        tv.setTextSize(20);
                        tv.setText("User Profile");
                        toast.setView(tv);
                        toast.setDuration(Toast.LENGTH LONG);
                        toast.show();
                        startActivity(new Intent(getApplicationContext(),
UserProfileActivity.class));
                        drawerLayout.closeDrawer(GravityCompat.START);
                        break;
                    case R.id.feedback:
                        showDialog();
                        drawerLayout.closeDrawer(GravityCompat.START);
                    case R.id.consultation:
                        tv.setBackgroundResource(R.drawable.toast bg);
                        tv.setTextColor(Color.WHITE);
                        tv.setTextSize(20):
                        tv.setText("Online Consultation");
                        toast.setView(tv);
                        toast.setDuration(Toast.LENGTH LONG);
                        toast.show();
                        startActivity(new Intent(HomeActivity.this, ConsultationActivity.class));
                        drawerLayout.closeDrawer(GravityCompat.START);
                        break;
                    case R.id.firstaid:
                        tv.setBackgroundResource(R.drawable.toast bg);
                        tv.setTextColor(Color.WHITE);
                        tv.setTextSize(20);
                        tv.setText("First Aid");
                        toast.setView(tv);
                        toast.setDuration(Toast.LENGTH LONG);
                        toast.show();
                        startActivity(new Intent(HomeActivity.this, FirstAidActivity.class));
                        drawerLayout.closeDrawer(GravityCompat.START);
                        break:
                    case R.id.logout:
                        AlertDialog.Builder builder3 = new AlertDialog.Builder(HomeActivity.this);
```

```
builder3.setMessage("Are you sure you want to Logout?")
                             .setTitle("Confirm Logout")
                            .setCancelable(false)
                            .setNegativeButton("No", new DialogInterface.OnClickListener() {
                                @Override
                                public void onClick(DialogInterface dialogInterface, int i) {
                                    dialogInterface.cancel();
                            })
                            .setPositiveButton("Yes", new DialogInterface.OnClickListener() {
                                @Override
                                public void onClick(DialogInterface dialogInterface, int i) {
                                    FirebaseAuth.getInstance().signOut();
         startActivity(new Intent(getApplicationContext(), LoginActivity.class));
                                    finish();
                            });
                    AlertDialog alertDialog3 = builder3.create();
                    alertDialog3.show();
                    drawerLayout.closeDrawer(GravityCompat.START);
                    break;
            return true;
    });
    Auth = FirebaseAuth.getInstance();
    ViewPager.OnPageChangeListener onPageChangeListener = new ViewPager.OnPageChangeListener() {
        @Override
        public void onPageScrolled(int position, float positionOffset, int positionOffsetPixels)
        @Override
        public void onPageSelected(int position) {
            currentPage = position;
        @Override
        public void onPageScrollStateChanged(int state) {
            if(state == ViewPager.SCROLL STATE IDLE) {
                pageLooper();
        }
    } ;
    bannerSliderViewPager.addOnPageChangeListener(onPageChangeListener);
    startBannerSlideShow();
    bannerSliderViewPager.setOnTouchListener(new View.OnTouchListener() {
        @Override
        public boolean onTouch(View view, MotionEvent motionEvent) {
            pageLooper();
            stopBannerSlideShow();
            if(motionEvent.getAction() == MotionEvent.ACTION UP) {
                startBannerSlideShow();
            return false;
        }
    });
private void pageLooper() {
    if(currentPage == sliderModelList.size() - 2){
        currentPage = 2;
        bannerSliderViewPager.setCurrentItem(currentPage, false);
    }
    if(currentPage == 1){
        currentPage = sliderModelList.size() - 3;
```

```
bannerSliderViewPager.setCurrentItem(currentPage);
    }
   private void startBannerSlideShow(){
       Handler handler = new Handler();
       Runnable update = new Runnable() {
            @Override
           public void run() {
                if(currentPage >= sliderModelList.size()){
                    currentPage = 1;
                bannerSliderViewPager.setCurrentItem(currentPage++, true);
            }
       };
       timer = new Timer();
       timer.schedule(new TimerTask() {
           @Override
           public void run() {
               handler.post(update);
       },DELAY, PERIOD);
   private void stopBannerSlideShow() {
       timer.cancel();
   private void showDialog() {
        final AlertDialog.Builder dialog = new AlertDialog.Builder(this);
       dialog.setTitle("Feedback Form!!!")
                .setCancelable(false)
                .setMessage("Provide your valuable feedback.");
       LayoutInflater inflater = LayoutInflater.from(this);
       View reg layout = inflater.inflate(R.layout.send feedback, null);
       MaterialEditText editName = req layout.findViewById(R.id.editName);
       MaterialEditText editEmail = reg layout.findViewById(R.id.editEmail);
       MaterialEditText editFeedback = reg_layout.findViewById(R.id.editFeedback);
       dialog.setView(reg layout);
       dialog.setPositiveButton("SEND", new DialogInterface.OnClickListener() {
            @Override
           public void onClick(DialogInterface dialogInterface, int i) {
                if(TextUtils.isEmpty(editName.getText().toString())){
                    Toast.makeText(HomeActivity.this, "Enter your Name!", Toast.LENGTH SHORT).show();
                    return:
                if(TextUtils.isEmpty(editEmail.getText().toString())){
                    Toast.makeText(HomeActivity.this, "Enter your Email id!",
Toast.LENGTH SHORT).show();
                    return;
                if(TextUtils.isEmpty(editFeedback.getText().toString())){
                    Toast.makeText(HomeActivity.this, "Please write a feedback!",
Toast. LENGTH SHORT) . show();
                    return;
                String name = editName.getText().toString().trim();
                String email = editEmail.getText().toString().trim();
                String feedback = editFeedback.getText().toString().trim();
                Feedback obj = new Feedback (name, email, feedback);
                FirebaseDatabase database = FirebaseDatabase.getInstance();
                DatabaseReference myRef = database.getReference("FeedbackForm");
```

```
myRef.child(name).setValue(obj);
                editName.setText("");
                editEmail.setText("");
                editFeedback.setText("");
                Toast.makeText(HomeActivity.this, "Thanks for your feedback!",
Toast.LENGTH SHORT).show();
        });
       dialog.setNegativeButton("CANCEL", new DialogInterface.OnClickListener() {
            public void onClick(DialogInterface dialogInterface, int i) {
                dialogInterface.cancel();
       });
       dialog.show();
    /* public void logout(View view) {
       FirebaseAuth.getInstance().signOut();
       startActivity(new Intent(getApplicationContext(), LoginActivity.class));
       finish();
    1 */
   @Override
   public void onBackPressed() {
       AlertDialog.Builder builder2 = new AlertDialog.Builder(this);
       builder2.setMessage("Are you sure you want to Exit?")
                .setTitle("Confirm Exit")
                .setCancelable(false)
                .setPositiveButton("Yes", new DialogInterface.OnClickListener() {
                    @Override
                    public void onClick(DialogInterface dialogInterface, int i) {
                        HomeActivity.super.onBackPressed();
                })
                .setNegativeButton("No", new DialogInterface.OnClickListener() {
                    public void onClick(DialogInterface dialogInterface, int i) {
                        dialogInterface.cancel();
                });
       AlertDialog alertDialog2 = builder2.create();
       alertDialog2.show();
    }
   @Override
   protected void onStart() {
       super.onStart();
       FirebaseUser user = Auth.getCurrentUser();
       if(user != null){
            //logged in
       }
       else{
            //no one logged in
            startActivity(new Intent(getApplicationContext(), LoginActivity.class));
            finish();
        }
    }
   public void loadShop() {
       LayoutInflater inflater = LayoutInflater.from(this);
           View view = inflater.inflate(R.layout.item shop, linearLayoutShop, false);
       medicine = (ImageView) view.findViewById(R.id.medicine category);
```

```
tvmedicine = (TextView) view.findViewById(R.id.tv medicine category);
equipments = (ImageView) view.findViewById(R.id.equipments category);
tvequipments = (TextView) view.findViewById(R.id.tv equipments category);
mombaby = (ImageView) view.findViewById(R.id.mom baby category);
tvmombaby = (TextView) view.findViewById(R.id.tv mom baby category);
supplements = (ImageView) view.findViewById(R.id.supplements category);
tvsupplements = (TextView) view.findViewById(R.id.tv supplements category);
covid = (ImageView) view.findViewById(R.id.covid category);
tvcovid = (TextView) view.findViewById(R.id.tv covid category);
    medicine.setImageResource(imageShop[0]);
    tvmedicine.setText(namesItemShop[0]);
    equipments.setImageResource(imageShop[1]);
    tvequipments.setText(namesItemShop[1]);
    mombaby.setImageResource(imageShop[2]);
    tvmombaby.setText(namesItemShop[2]);
    supplements.setImageResource(imageShop[3]);
    tvsupplements.setText(namesItemShop[3]);
    covid.setImageResource(imageShop[4]);
    tvcovid.setText(namesItemShop[4]);
    medicine.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String itemSelected = namesItemShop[0];
            Intent medicine = new Intent(getApplicationContext(), shop.class);
            startActivity (medicine);
    });
    equipments.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String itemSelected = namesItemShop[1];
            Intent equip = new Intent(getApplicationContext(), shop equipments.class);
            startActivity(equip);
    });
    mombaby.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String itemSelected = namesItemShop[2];
            Intent mb = new Intent(getApplicationContext(), shop mombaby.class);
            startActivity(mb);
    });
    supplements.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String itemSelected = namesItemShop[3];
            Intent supp = new Intent(getApplicationContext(), shop supplements.class);
            startActivity(supp);
    });
    covid.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String itemSelected = namesItemShop[4];
            Intent covid = new Intent(getApplicationContext(), shop covid essentials.class);
            startActivity(covid);
    });
    linearLayoutShop.addView(view);
```

}

```
public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.home_cart_icon, menu);
    return true;
}
@Override
public boolean onOptionsItemSelected(@NonNull MenuItem item) {
    int id = item.getItemId();
    if(id == R.id.main_cart_icon) {
        return true;
    }
    return super.onOptionsItemSelected(item);
}
```

#### **Basic First Aid:**

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
android:layout_height="match_parent">
    <androidx.constraintlayout.widget.ConstraintLayout</pre>
        android:layout width="match parent"
        android:layout_height="wrap_content"
        tools:context=".MainActivity">
        <com.google.android.material.appbar.AppBarLayout</pre>
            android:id="@+id/appBarLayout"
            android:layout width="match parent"
            android:layout height="wrap content"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout constraintStart toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            tools:ignore="MissingConstraints">
            <androidx.appcompat.widget.Toolbar</pre>
                 android:id="@+id/toolbar2"
                android:layout width="match parent"
                android:layout height="?attr/actionBarSize"
                android:background="#72BCD4" />
        </com.google.android.material.appbar.AppBarLayout>
        <TextView
            android:id="@+id/textView"
            android:layout width="wrap content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
android:layout_marginTop="12dp"
            android:text="Basic First Aid"
            android:textColor="#008000"
            android:textSize="28dp"
            android:textStyle="bold"
            app:layout constraintEnd toEndOf="parent"
            app:layout_constraintHorizontal bias="0.497"
            app:layout constraintStart toStartOf="parent"
            app:layout constraintTop toBottomOf="@+id/appBarLayout" />
        <TextView
            android:id="@+id/textView2"
            android:layout_width="wrap content"
            android:layout height="wrap content"
            android:layout marginTop="20dp"
            android:text="1. CPR - CardioPulmonary Resuscitation"
```

```
android:textColor="@color/black"
    android:textSize="15dp"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.168"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/textView" />
<com.pierfrancescosoffritti.androidyoutubeplayer.core.player.views.YouTubePlayerView</pre>
    android:id="@+id/youTubePlayerView"
    android:layout width="360dp"
    android:layout height="wrap content"
    android:layout_gravity="center"
android:layout_marginTop="20dp"
    app:autoPlay="false"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.49"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView2"
app:videoId="8YREVVM2n7g" />
<TextView
    android:id="@+id/textView3"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginTop="20dp"
    android:text="2. Choking"
    android:textColor="@color/black"
    android:textSize="15dp"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.065"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/youTubePlayerView" />
<com.pierfrancescosoffritti.androidyoutubeplayer.core.player.views.YouTubePlayerView</pre>
    android:id="@+id/youTubePlayerView2"
    android:layout width="360dp"
    android:layout height="wrap content"
    android: layout gravity="center"
    android:layout marginTop="20dp"
    app:autoPlay="false"
    app:layout constraintEnd toEndOf="@+id/youTubePlayerView"
    app:layout constraintHorizontal bias="0.0"
    app:layout constraintStart toStartOf="@+id/youTubePlayerView"
    app:layout constraintTop toBottomOf="@+id/textView3"
    app:videoId="wl H8lYkFdo" />
<TextView
    android:id="@+id/textView4"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginTop="20dp"
    android:text="3. Snake Bite"
    android:textColor="@color/black"
    android:textSize="15dp"
    app:layout constraintEnd toEndOf="parent"
    app:layout_constraintHorizontal bias="0.065"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/youTubePlayerView2" />
<com.pierfrancescosoffritti.androidyoutubeplayer.core.player.views.YouTubePlayerView</pre>
    android:id="@+id/youTubePlayerView3"
    android:layout width="360dp'
    android:layout height="wrap content"
    android:layout gravity="center"
    android:layout marginTop="20dp"
    app:autoPlay="false"
    app:layout constraintEnd toEndOf="@+id/youTubePlayerView2"
    app:layout_constraintHorizontal bias="0.0"
    app:layout constraintStart toStartOf="@+id/youTubePlayerView2"
```

```
app:layout constraintTop toBottomOf="@+id/textView4"
                      app:videoId="nH8o-bgwo_g" />
                      android:id="@+id/textView5"
                      android:layout width="wrap content"
                      android:layout height="wrap content"
                      android:layout_marginTop="20dp"
                      android:text="4. Cut wounds"
                      android:textColor="@color/black"
                      android:textSize="15dp"
                      app:layout constraintEnd toEndOf="parent"
                      app:layout constraintHorizontal bias="0.065"
                      app:layout constraintStart toStartOf="parent"
                      app:layout constraintTop toBottomOf="@+id/youTubePlayerView3" />
               <\!\!\mathrm{com.pierfrances} cosoffritti.and roidy out ubeplayer.core.player.views.You Tube Player View and roidy out ubeplayer.core.player.view and roidy out ubeplayer.view and roidy out ubeplayer.view and roidy out ubeplayer.core.player.view and roidy out ubeplayer.view are roidy out ubeplayer.view and roidy out ubeplayer.view and roidy out ubeplayer.view are roidy out ubeplayer.view and roidy out ubeplayer.view and roidy out ubeplayer.view are roidy out ubeplayer.view are roidy out ubeplayer.view and roidy out ubeplayer.view are roidy out ubepl
                      android:id="@+id/youTubePlayerView4"
                      android:layout width="360dp"
                      android:layout height="wrap content"
                      android:layout gravity="center"
                      android:layout marginTop="20dp"
                      app:autoPlay="false"
                      app:layout constraintEnd toEndOf="@+id/youTubePlayerView3"
                      app:layout constraintHorizontal bias="0.0"
                      app:layout constraintStart toStartOf="@+id/youTubePlayerView3"
                      app:layout constraintTop toBottomOf="@+id/textView5"
                      app:videoId="St19GmgIJFY" />
               <TextView
                      android:id="@+id/textView6"
                      android:layout width="wrap content"
                      android:layout height="wrap content"
                      android:layout_marginTop="20dp"
                      android:text="5. Burn wounds"
                      android:textColor="@color/black"
                      android:textSize="15dp"
                      app:layout constraintEnd toEndOf="parent"
                      app:layout_constraintHorizontal bias="0.065"
                      app:layout_constraintStart_toStartOf="parent"
                      app:layout constraintTop toBottomOf="@+id/youTubePlayerView4" />
               <com.pierfrancescosoffritti.androidyoutubeplayer.core.player.views.YouTubePlayerView</pre>
                      android:layout width="360dp"
                      android:layout_height="wrap_content"
                      android:layout_gravity="center"
android:layout_marginTop="20dp"
                      app:autoPlay="false"
                      android:layout marginBottom="15dp"
                      app:layout_constraintEnd toEndOf="@+id/youTubePlayerView4"
                      app:layout_constraintHorizontal bias="1.0"
                      app:layout constraintStart toStartOf="@+id/youTubePlayerView4"
                      app:layout constraintTop toBottomOf="@+id/textView6"
                      app:layout constraintBottom toBottomOf="parent"
                      app:videoId="mi2zHvwh3MY" />
       </androidx.constraintlayout.widget.ConstraintLayout>
</ScrollView>
package com.example.medpharmaapplication;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.widget.Toolbar;
import android.os.Bundle;
import android.view.MenuItem;
import java.util.function.ToLongBiFunction;
```

```
public class FirstAidActivity extends AppCompatActivity {
    Toolbar toolbar;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity first aid);
        toolbar = (Toolbar) findViewById(R.id.toolbar2);
        setSupportActionBar(toolbar);
        getSupportActionBar().setDisplayShowTitleEnabled(false);
        getSupportActionBar().setDisplayHomeAsUpEnabled(true);
    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        int id = item.getItemId();
        if(id == android.R.id.home) {
            finish();
            return true;
        else if(id == R.id.main cart icon) {
            return true;
        return super.onOptionsItemSelected(item);
    }
```

# Feedback Page:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   android:layout width="match parent"
   android:layout_height="match_parent"
   xmlns:app="http://schemas.android.com/apk/res-auto"
   app:cardElevation="10dp">
    <LinearLayout
        android:layout_width="match parent"
        android:layout height="wrap content"
        android:orientation="vertical"
        android:layout_margin="20dp">
        <com.rengwuxian.materialedittext.MaterialEditText</pre>
            android:id="@+id/editName"
            android:layout width="match parent"
            android:layout height="wrap content"
            android:hint="Enter your Name.."
            android:inputType="text"
            android:textColor="@color/black"
            android:textColorHint="@color/black"
            android:textSize="20dp"
            app:met singleLineEllipsis="true"/>
        <com.rengwuxian.materialedittext.MaterialEditText</pre>
            android:id="@+id/editEmail"
            android:layout width="match parent"
            android:layout height="wrap content"
            android:hint="Enter your Email Id.."
            android:inputType="textEmailAddress"
            android:textColor="@color/black"
            android:textColorHint="@color/black"
            android:textSize="20dp"
            app:met singleLineEllipsis="true"/>
        <com.rengwuxian.materialedittext.MaterialEditText</pre>
```

```
android:id="@+id/editFeedback"
            android:layout_width="match_parent"
            android:layout height="wrap content"
            android:hint="Enter Feedback.."
            android:inputType="text"
            android:textColor="@color/black"
            android:textColorHint="@color/black"
            android:textSize="20dp"
           app:met_singleLineEllipsis="true"/>
    </LinearLayout>
</androidx.cardview.widget.CardView>
package com.example.medpharmaapplication;
public class Feedback {
    String name, email, feedback;
    public Feedback(String name, String email, String feedback) {
        this.name = name;
        this.email = email;
        this.feedback = feedback;
    public String getName() {
        return name;
    public void setName(String name) {
       this.name = name;
    public String getEmail() {
        return email;
    public void setEmail(String email) {
       this.email = email;
    public String getFeedback() {
       return feedback;
    public void setFeedback(String feedback) {
       this.feedback = feedback;
}
```

# **CHAPTER 5 - TEST METRICS**

Test Case Id	Test Scenario Description	Actual Result	Expected Result	Comments
T01	To check if a member tries to sign in again	Username is already taken by another account	Working as expected	Passed
T02	To check if unformatted email is accepted	Email address is badly formatted	Working as expected	Passed
Т03	To check if password entered is short	Password must contain six characters	Working as Expected	Passed
T04	To check if confirm password is working	Passwords does not match	Working as Expected	Passed
T05	To check if Register button is working	Registered successfully	Working as Expected	Passed
T06	To check if log out button is working	Logged out successfully	Working as expected	Passed
T07	To check if the products are displayed in the category	Products are displayed	Working as expected	Passed
Т08	To check if the buy now button is working	User is able to buy the product	Working as expected	Passed
Т09	To check if the book appointment module is working	Appointment booked	Working as expected	Passed
T10	To check if the payment button is working	Payment page is displayed	Working as expected	Passed
T11	To check if the product description is shown	Product description page is displayed	Working as expected	Passed
T12	To check if the banner slider is working	Different banners are visible on the homepage	Working as expected	Passed
T13	To check if the update profile option is working	Profile updated successfully	Working as expected	Passed
T14	To check if the feedback is sent	Feedback sent successfully	Working as expected	Passed
T15	To check if the data is stored in the database	All the user data is stored in the database	Working as expected	Passed
T16	To verify if menus can be accessed	User is able to access through different menus	Working as expected	Passed

## **CHAPTER 6 - BASE PAPER**

# DESCRIPTIVE ANALYSIS OF QUALITY OF INFORMATION OF DRUGS ON ANDROID-BASED INDIAN ONLINE PHARMACY APPLICATIONS: A PRELIMINARY ANALYSIS

## SHAIKH SANA PERVEEN1, SHWETA SURVE2, NERURKAR RP1

1Department of Pharmacology, Topiwala National Medical College, Mumbai, Maharashtra, India, 2Department of Pharmacology, Lokmanya Tilak Municipal Medical College and General Hospital, Mumbai, Maharashtra, India.

Received: 10 February 2020, Revised and Accepted: 11 March 2020

#### LINK:

https://www.researchgate.net/publication/342411694 DESCRIPTIVE ANALYSIS OF QUALITY
OF INFORMATION OF DRUGS ON ANDROIDBASED INDIAN ONLINE PHARMACY APPLICATIONS A PRELIMINARY ANALYSIS

# **CHAPTER 7 - REFERENCES**

- https://en.wikipedia.org/wiki/Online\_pharmacy#:~:text=An%20online%20pharmacy %2C%20internet%20pharmacy,administrate%20corporate%20prescription%20drug %20plans.
- 2. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4029126/
- 3. https://www.researchgate.net/publication/51686566\_Quality\_of\_Online\_Pharmacies \_and\_Websites\_Selling\_Prescription\_Drugs\_A\_Systematic\_Review
- 4. https://www.slideshare.net/HabtamuAsmare/pharmacy-management-system-requirement-analysis-and-elicitaion-document