PROJECT REPORT ON

Online Book Reading App

UNDER THE GUIDANCE OF

Prof Mrs. Rafat Khan

SUBMITTED BY

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UNIVERSITY OF MUMBAI

S.Y.B.Sc (COMPUTER SCIENCE)

UNDER THE

ACADEMIC YEAR: 2022-2023

BHARTIYA VIDYA BHAVAN'S

MM COLLEGE OF ARTS, NM COLLEGE OF COMMERCE &

HRJ COLLEGE OF COMMERCE

BHAVAN'S COLLEGE

MUNSHI NAGAR, ANDHERI (WEST),

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BHARATIYA VIDYA BHAVAN

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CERTIFICATE

This is to certify that **Ms Gupta Mahika Santosh** of the class

S. Y. B. Sc. Computer Science has satisfactorily completed the practical course in

BH.USCS407 as prescribed by the University of Mumbai during the academic year **2022-23**

Signature   Signature

Staff In Charge   **Computer Science**

                                                                Coordinators

Signature

Examiner   **College Stamp**

<u>ACKNOWLEDGEMENT</u>

I would like to express my sincere gratitude towards the Computer Science Department of Bhavan's College.

After months of hard work, finally I am delighted to present my project. The Project making was full of new experiences, learning and difficult one too. Though a difficult job it was made simpler by the timely guidance received, which helped me greatly in the completion of my project. But it wouldn't be right to do so without thanking to those who have helped me in converting our thought into reality. So I would like to take full advantage of this opportunity to thank each and every person who has helped me throughout the completion of our project.

I am obliged to my parents & family members who always support me greatly and encouraged me in each and every step. I give my special thanks and sincere gratitude towards the Principal Dr. Zarin Bathena , Head of Department(Computer Science) Prof. Mrs. Krupa Balsara Kamdar.

I owe my sincere thanks to our Project guide Prof Mrs. Rafat Khan for their constant support and encouragement without which the successful completion of this project would have been impossible. They have been instrumental for making me concentrate and focus my effort in this project. And last but not the least the entire college staff.

Thank-you

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1. PRELIMINARY INVESTIGATION

1.1 INTRODUCTION

The name of the app is BookPedia, it is book reading app which allows user to read and explore various different books of their choice which are available on the app. They can also enjoy the experience of downloading the books, saving it for later, marking it as read to keep an account of how many books they've read. The app also takes genuine feedback from all the users regarding their experience while using the app.

1.2 DESCRIPTION OF THE SYSTEM

BookPedia is book reading app, which allows the users to explore the book of their choice. The users will first have to login to enjoy the functionalities of the app. After they login, they have a wide range of option to select any type of book they would like to read. These include Fictional, Non-Fictional, Biographies, Poems, Motivational and Business books.

After selecting one of the options, they will be able to see all the available books on the app. The users have the facility to add books to favourites, download the book of their choice, mark as read for their convenience and save books for later.

After reading the books of their choice they also have an option to give the feedback about the app which would be helpful for us to get a genuine response in terms of what can the done to make the app better.

Once everything is done the user can also logout and they'll be redirected to the welcome page again.

1.3 LIMITATION OF THE SYSTEM

- The present system does not allow the user to view the image of the book they add to favourites or save it for later or when they mark it as read.
- The user will have to login every time they open the app.

1.4 HARDWAER AND SOFTWARE REQUIREMENTS

- 4 GB RAM or more
- 1.6 GHz or fast processor
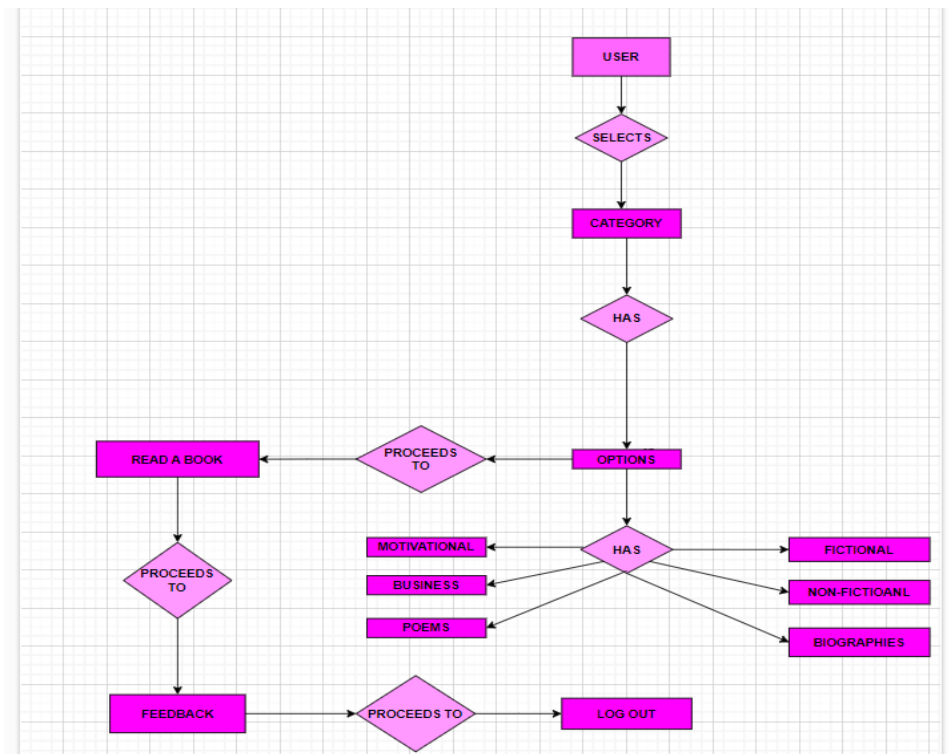- Android Version 10 or more

2. SYSTEM ANALYSIS

2.1 FACT FINDING TECHNIQUE

Questionnaire
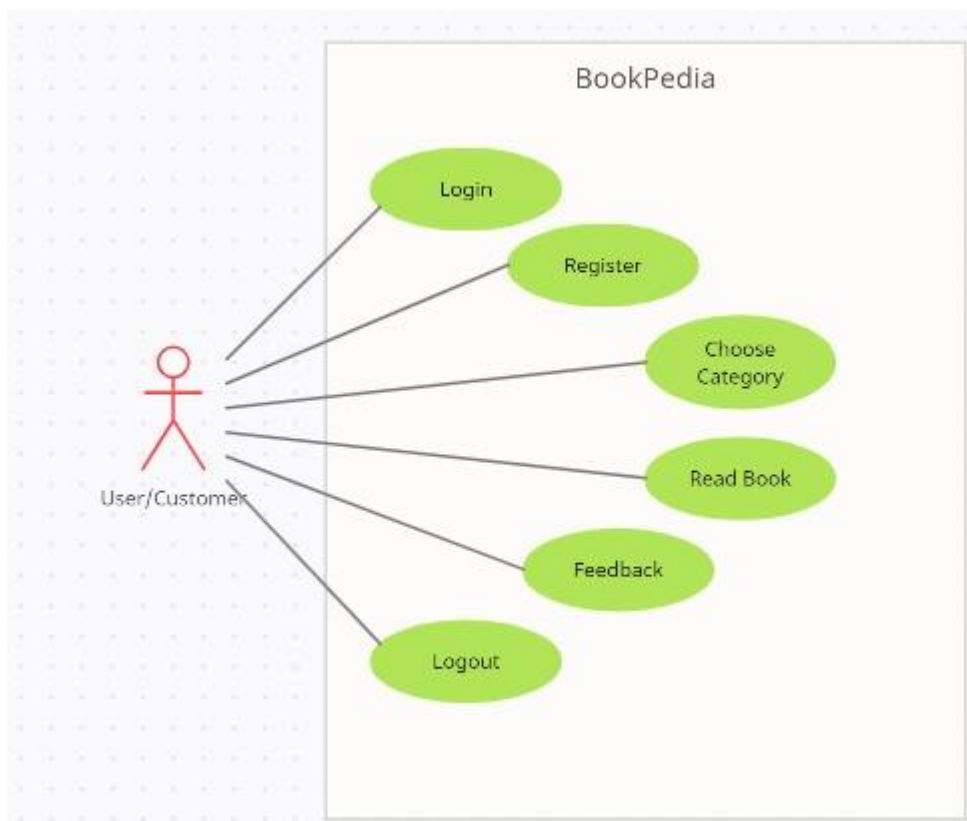
1.What Are Your Goals and Objectives?

2.How Would You Describe Your Project?

3.Will You Need Specific Information or Advice?

4.Will You Need to Use Special Tools or Templates?

5.How Might Your Project Evolve over Time?

6.Is There A Deadline?

7.What is your budget?

8.What is your personal passion about this project? What will this mean to you when we succeed?

9.Why do you need an online application?

10.Do you want to keep any offers/discounts?

11.What makes your services unique?
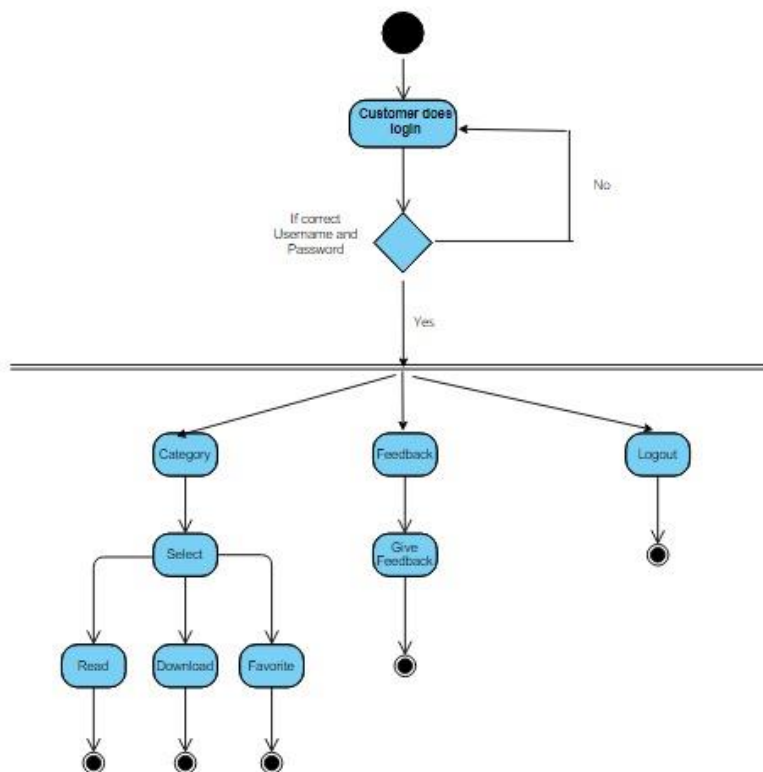
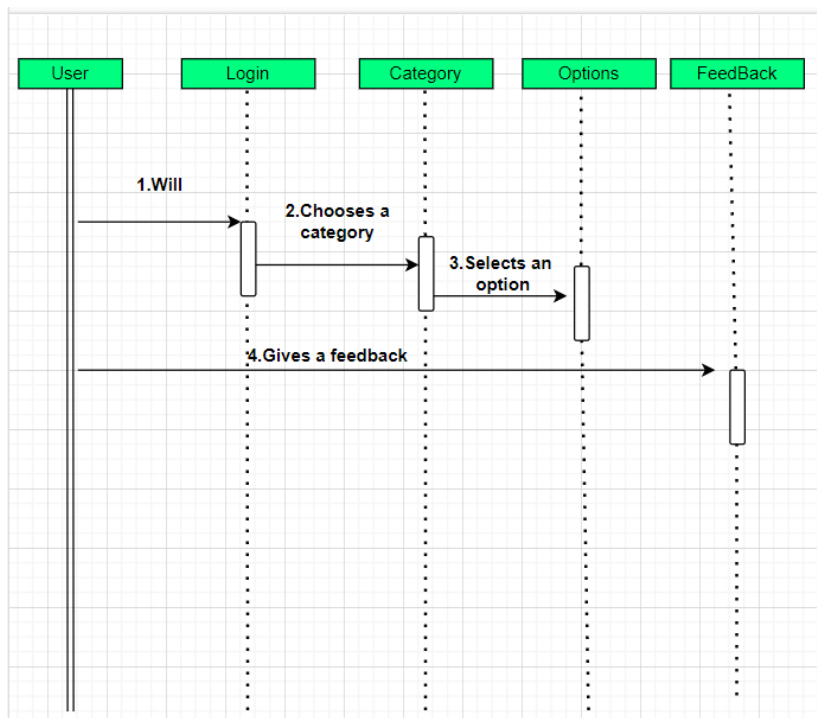12.Do you have any existing style/guidelines?

DIAGRAMS

2.2 ER DIAGRAM

2.3 USE CASE DIAGRAM
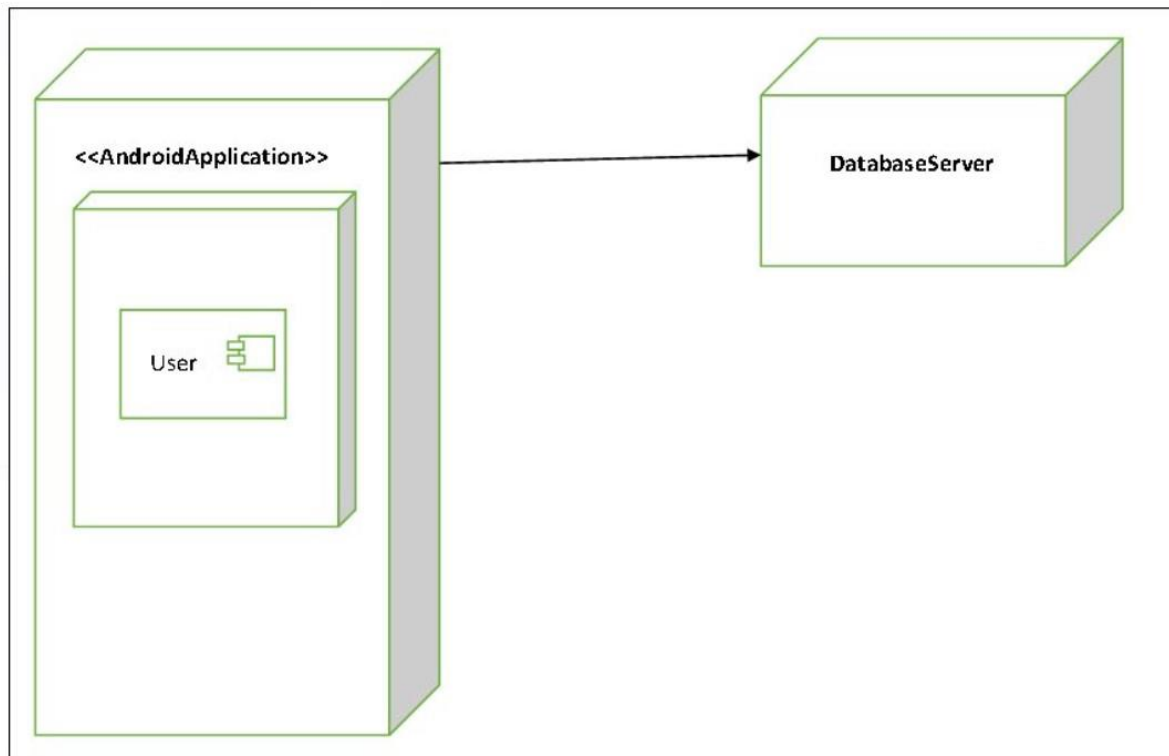
2.4 ACTIVITY DIAGRAM

2.5 SEQUENCE DIAGRAM:

3. SYSTEM DESIGN

3.1 <u>DEPLOYMENT DIAGRAM</u>

4. SYSTEM CODING

4.1 LIST OF TABLES WITH ATTRIBUTES AND CONSTRAINTS

Table 1. User Registration table with Attributes and Constraints

Field Name	Data type	Constraint	Description
Name	varchar(max)	Not Null	Customer's Name
Password	password	Not Null	Customer's Password
Contact	numeric	Not Null	Customer's Contact
Email	varchar(max)	Not Null	Customer's email id

Table 2. User Login table with Attributes and Constraints

Field Name	Data type	Constraint	Description
Name	varchar(max)	Not Null	User's name
Password	varchar(max)	Not Null	User's password

Table 3 . Add to favourites table with Attributes and Constraints

Field Name	Data type	Constraint	Description
Username	varchar(max)	Not Null	User's name
Bookname	varchar(max)	Not Null	Book's name

Table 4. Add to read later table with Attributes and Constraints

Field Name	Data type	Constraint	Description
Username	varchar(max)	Not Null	User's name
Bookname	varchar(max)	Not Null	Book's name

Table 5. Add to read books table with Attributes and Constraints

Field Name	Data type	Constraint	Description
Username	varchar(max)	Not Null	User's name
Bookname	varchar(max)	Not Null	Book's name

4.2 PROGRAM CODE

BookDetailsActivity.java

```java
package com.example.bookpediaa;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.content.Context;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageButton;
import android.widget.TextView;
import android.widget.Toast;

public class BookDetailsActivity extends AppCompatActivity {
    TextView tv1;
    EditText edDetails;
    ImageButton read, fav,slater,rdone;

    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_book_details);

        tv1 = findViewById(R.id.BookName);
        edDetails = findViewById(R.id.edBookDetails);
        edDetails.setKeyListener(null);
        read = findViewById(R.id.btnRead);
```

```
    fav = findViewById(R.id.btnFav);
    slater=findViewById(R.id.rlater);
    rdone=findViewById(R.id.mread);


    Intent intent = getIntent();
    tv1.setText(intent.getStringExtra("text1"));
    edDetails.setText(intent.getStringExtra("text2"));
    String url = intent.getStringExtra("text3");


    read.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
          Intent it = new Intent(BookDetailsActivity.this, ViewPdfActivity.class);
          it.putExtra("text1", url);
          startActivity(it);
       }
    });


    fav.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
          SharedPreferences sharedPreferences = getSharedPreferences("shared_prefs",
Context.MODE_PRIVATE);
          String username = sharedPreferences.getString("username", "").toString();
          String bookname = tv1.getText().toString();


          Database db = new Database(getApplicationContext(), "books",null,1);
          if (db.checkFav(username,bookname) == 1){
             Toast.makeText(BookDetailsActivity.this, "Book Already Exists...",
Toast.LENGTH_SHORT).show();
          }


          else{
             db.addFav(username,bookname);
```

```
                Toast.makeText(BookDetailsActivity.this, "Book added to favourite",
Toast.LENGTH_SHORT).show();
                    //startActivity(new Intent(BookDetailsActivity.this, LabTestActivity.class));
                }
            }
        });
        slater.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                SharedPreferences sharedPreferences = getSharedPreferences("shared_prefs",
Context.MODE_PRIVATE);
                String username = sharedPreferences.getString("username", "").toString();
                String bookname = tv1.getText().toString();

                Database db = new Database(getApplicationContext(), "books",null,1);
                if (db.checkLater(username,bookname) == 1){
                    Toast.makeText(BookDetailsActivity.this, "Book Already Added...",
Toast.LENGTH_SHORT).show();
                }

                else{
                    db.addLater(username,bookname);
                    Toast.makeText(BookDetailsActivity.this, "Book added to read later",
Toast.LENGTH_SHORT).show();
                    //startActivity(new Intent(BookDetailsActivity.this, LabTestActivity.class));
                }
            }
        });
        rdone.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                SharedPreferences sharedPreferences = getSharedPreferences("shared_prefs",
Context.MODE_PRIVATE);
                String username = sharedPreferences.getString("username", "").toString();
```

```
        String bookname = tv1.getText().toString();


        Database db = new Database(getApplicationContext(), "books",null,1);
        if (db.checkDone(username,bookname) == 1){
            Toast.makeText(BookDetailsActivity.this, "Book Already Exists...",
Toast.LENGTH_SHORT).show();
        }


        else{
            db.addDone(username,bookname);
            Toast.makeText(BookDetailsActivity.this, "Hurahh you have read the Book ",
Toast.LENGTH_SHORT).show();
            //startActivity(new Intent(BookDetailsActivity.this, LabTestActivity.class));
        }
      }
    });

  }
}
```

HomePage1Activity.java

```
package com.example.bookpediaa;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.ImageView;
public class HomePage1Activity extends AppCompatActivity {
  @SuppressLint("MissingInflatedId")
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
```

```java
setContentView(R.layout.activity_home_page1);
ImageView fav,later,read,done,addFeedback;
fav=findViewById(R.id.viewfav);
fav.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        startActivity(new Intent(HomePage1Activity.this, ViewFav.class));
    }
});
later=findViewById(R.id.viewLater);
later.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        startActivity(new Intent(HomePage1Activity.this, HMPGActivity.class));
    }
});
read=findViewById(R.id.readBooks);
read.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        startActivity(new Intent(HomePage1Activity.this, HMPGActivity.class));
    }
});
done=findViewById(R.id.viewRead);
done.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        startActivity(new Intent(HomePage1Activity.this, HMPGActivity.class));
    }
});
addFeedback=findViewById(R.id.viewFeed);
addFeedback.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
```

```
                startActivity(new Intent(HomePage1Activity.this, FeedBackActivity.class));
            }
        });
    }
}
```

SeeBooks.java

package com.example.bookpediaa;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.ListView;
import android.widget.SimpleAdapter;
import android.widget.TextView;

import java.util.ArrayList;
import java.util.HashMap;

public class SeeBooks extends AppCompatActivity {

    private String[][] poems =
        {
                {"Your Soul Is a River", "Nikita Gill", "4.5", "", "Click for more Details"},
                {"Her", "Pierre Alex Jeanty, Tremanda Pewett, Omar Rodriguez", "3.4", "",
"Click for more Details"},
                {"Pillow Thoughts", "Courtney Peppernell ", "4.2", "", "Click for more
Details"},
```

```java
            {"The Sun and Her Flowers", "Rupi Kaur", "4,8", "", "Click for more Details"},
            {"Milk and Honey", "Rupi Kaur", "3.2", "", "Click for more Details"},
        };
    private String[][] fictional =
        {
            {"Learning to Dance", "Karri Justina Shea", "3.8", "", "Click for more Details"},
            {"It Ends With Us", "Colleen Hoover", "4.2", "", "Click for more Details"},
            {"Half Girlfriend", "Chetan Bhagat", "2.4", "", "Click for more Details"},
            {"End Emotional Eating", "Nicola Skidmore", "4.9", "", "Click for more
Details"},
            {"The Four Agreement", "Miguel Ruiz", "3.6", "", "Click for more Details"},
        };
    private String[][] motivational =
        {
            {"A New Earth Awakening to Your Lifes Purpose", "3.4", "", "", "Click for more
Details"},
            {"Access the Power of Your Higher Self  ", "4.5", "", "", "Click for more
Details"},
            {"The Four Agreements ", "Miguel Ruiz", "2.3", "", "Click for more Details"},
            {"End Emotional Eating", "Nicola Skidmore", "3.4", "", "Click for more
Details"},
            {"Moon Walking With Einstein", "Joshua Foer,", "2.1", "", "Click for more
Details"},
        };
    private String[][] business =
        {
            {"The 5 Second Rule", "Mel Robbins", "3..4", "", "Click for more Details"},
            {"Rules of Work", "RICHARD TEMPLAR", "4.5", "", "Click for more
Details"},
            {"Law of Success ", "NAPOLEON HILL", "4.2", "", "Click for more Details"},
            {"Give and Take", "Adam Grant", "4.4", "", "Click for more Details"},
            {"Moon Walking With Einstein", "Joshua Foer,", "3.7", "", "Click for more
Details"},
        };
```

```java
    private String[][] bio =
        {
                {"Learning to Dance", "Karri Justina Shea", "3.8", "", "Click for more Details"},
                {"It Ends With Us", "Colleen Hoover", "4.2", "", "Click for more Details"},
                {"Half Girlfriend", "Chetan Bhagat", "2.4", "", "Click for more Details"},
                {"End Emotional Eating", "Nicola Skidmore", "4.9", "", "Click for more
Details"},
                {"The Four Agreement", "Miguel Ruiz", "3.6", "", "Click for more Details"},
        };
    private String[][] nonfic =
        {
                {"The 5 Second Rule", "Mel Robbins", "3..4", "", "Click for more Details"},
                {"Rules of Work", "RICHARD TEMPLAR", "4.5", "", "Click for more
Details"},
                {"Law of Success ", "NAPOLEON HILL", "4.2", "", "Click for more Details"},
                {"Give and Take", "Adam Grant", "4.4", "", "Click for more Details"},
                {"Moon Walking With Einstein", "Joshua Foer,", "3.7", "", "Click for more
Details"},
        };
    private String[]
poem_url={"https://drive.google.com/file/d/1CUt_D46xB0WLMgR0uOE6wfSJhnLkydCS/v
iew?usp=share_link",

"https://drive.google.com/file/d/1nwMS22Q_KoZy5lhhm0rp3FSjZWg321P8/view?usp=shar
e_link",
                "https://drive.google.com/file/d/1gYf-
5Hgo8u8ETAeigfQ8PMFk2Itnom9b/view?usp=share_link",
                "https://drive.google.com/file/d/1TfFRUBkb-
3sVqQbfMcAnduM4LA2vN1m4/view?usp=share_link",

"https://drive.google.com/file/d/1ZusnfkvIk_bmVke279QrbsOVJ0uoIPRZ/view?usp=share_l
ink"
    };
```

```java
    private String[] fic_url={

"https://drive.google.com/file/d/1K4FKj2AtrCl9ETEPZx5BLfogFGrjvYeV/view?usp=share_
link",

"https://drive.google.com/file/d/12WaYMKF9s2w7AriSLocOyM1mnl_AVTIT/view?usp=sh
are_link",

"https://drive.google.com/file/d/12WaYMKF9s2w7AriSLocOyM1mnl_AVTIT/view?usp=sh
are_link",

"https://drive.google.com/file/d/1K4FKj2AtrCl9ETEPZx5BLfogFGrjvYeV/view?usp=share_
link",
        "https://drive.google.com/file/d/16-
dhQItvudp5HMX82Tru3vf19CO5G7q7/view?usp=share_link"
    };

    private String[] motiv_url={
"https://drive.google.com/file/d/1NXKT0tbByK8M9INWvvTetrfdDRcTb_mg/view?usp=sha
re_link",
"https://drive.google.com/file/d/1mjTw41EhbWzLaFYf3ohKwZca9DELtYxX/view?usp=sha
re_link",
"https://drive.google.com/file/d/1gOVtQyosFRKu4rW4gwEQjSCAF0JZmp3N/view?usp=sh
are_link",
"https://drive.google.com/file/d/1K4FKj2AtrCl9ETEPZx5BLfogFGrjvYeV/view?usp=share_
link",
        "https://drive.google.com/file/d/16-
dhQItvudp5HMX82Tru3vf19CO5G7q7/view?usp=share_link"
    };
    private String[] bus_url={

"https://drive.google.com/file/d/1rkLfpC9zvzVGtb9RCVHdzrZTkNOAND12/view?usp=shar
e_link",
```

```
"https://drive.google.com/file/d/1l8XIOyoxlciHbmKS4fux4nMSoX0JOYSP/view?usp=share
_link",

"https://drive.google.com/file/d/1jYIa9CodvohecAVthNyfrEAPSPiwDfCX/view?usp=share_
link",

"https://drive.google.com/file/d/12ITQ0i8mT4mR4tmqlSibUeTsRoSxnN6s/view?usp=share_
link",
        "https://drive.google.com/file/d/16-
dhQItvudp5HMX82Tru3vf19CO5G7q7/view?usp=share_link"
    };
    private String[] bio_url={

"https://drive.google.com/file/d/1K4FKj2AtrCl9ETEPZx5BLfogFGrjvYeV/view?usp=share_
link",

"https://drive.google.com/file/d/12WaYMKF9s2w7AriSLocOyM1mnl_AVTIT/view?usp=sh
are_link",

"https://drive.google.com/file/d/12WaYMKF9s2w7AriSLocOyM1mnl_AVTIT/view?usp=sh
are_link",

"https://drive.google.com/file/d/1K4FKj2AtrCl9ETEPZx5BLfogFGrjvYeV/view?usp=share_
link",
        "https://drive.google.com/file/d/16-
dhQItvudp5HMX82Tru3vf19CO5G7q7/view?usp=share_link"
    };
    private String[] nonfic_url={

"https://drive.google.com/file/d/1rkLfpC9zvzVGtb9RCVHdzrZTkNOAND12/view?usp=shar
e_link",

"https://drive.google.com/file/d/1l8XIOyoxlciHbmKS4fux4nMSoX0JOYSP/view?usp=share
```

_link",

"https://drive.google.com/file/d/1jYIa9CodvohecAVthNyfrEAPSPiwDfCX/view?usp=share_
link",

"https://drive.google.com/file/d/12ITQ0i8mT4mR4tmqlSibUeTsRoSxnN6s/view?usp=share_
link",
        "https://drive.google.com/file/d/16-
dhQItvudp5HMX82Tru3vf19CO5G7q7/view?usp=share_link"

```
    };
    private String[] books = {};
    private String[] poem_des={
```
        "This best selling poetry book by Nikita Gill is about the journey of healing from
trauma and becoming whole again. Directions: apply to your soul gently, whilst sitting under
the stars.",
"Her is a collection of poetry and prose about women, their strengths and beauty. Every
woman should know the feelings of being loved and radiating those feelings back to her
mate. This is a beautiful expression of heartfelt emotion using short, gratifying sentiments. If
there is a lover in you, you will not get enough of Her.",
        "Pillow Thoughts is a collection of poetry and prose about heartbreak, love and raw
emotions. It is divided into sections to read when you feel you need them most. Make a cup
of tea and let yourself feel.",
        "A transcendent journey about growth and healing, ancestry and honoring one's roots
and expatriation, and rising up to find a home within yourself.",
    "This best selling poetry book by Nikita Gill is about the journey of healing from trauma
and becoming whole again. Directions: apply to your soul gently, whilst sitting under the
stars."

```
    };
    private String[] moti_des={"This best selling poetry book by Nikita Gill is about the
```
journey of healing from trauma and becoming whole again. Directions: apply to your soul
gently, whilst sitting under the stars.",
        "This best selling poetry book by Nikita Gill is about the journey of healing from

trauma and becoming whole again. Directions: apply to your soul gently, whilst sitting under the stars.",

"This best selling poetry book by Nikita Gill is about the journey of healing from trauma and becoming whole again. Directions: apply to your soul gently, whilst sitting under the stars.",

"This best selling poetry book by Nikita Gill is about the journey of healing from trauma and becoming whole again. Directions: apply to your soul gently, whilst sitting under the stars.",

"This best selling poetry book by Nikita Gill is about the journey of healing from trauma and becoming whole again. Directions: apply to your soul gently, whilst sitting under the stars."
    };

    private String[] fic_des={
"Lieutenant Up had spent his life alone, a soldier, devoting himself to a war that has spanned centuries. He can't explain why he feels so drawn to the fiery Mexican girl, this tiny creature who can scream like a banshee in the face of certain death.",
"In this \"brave and heartbreaking novel that digs its claws into you and doesn't let go, long after you've finished it\" (Anna Todd, New York Times bestselling author) from the #1 New York Times bestselling author of All Your Perfects, a workaholic with a too-good-to-be-true romance can't stop thinking about her first love.",

"Once upon a time, there was a Bihari boy called Madhav. He fell in love with girl called Riya. Madhav didn't speak English well. Riya did. Madhav wanted a relationship. Riya didn't. Riya just wanted friendship. ",

"If you eat to help manage your emotions, you may have discovered that it doesn't work. Once you're done eating, you might even feel worse. Eating can all too easily become a strategy for coping with depression, anxiety, boredom, stress, and anger, and a reliable reward when it's time to celebrate.",

"Rooted in traditional Toltec wisdom beliefs, four agreements in life are essential steps on the path to personal freedom. As beliefs are transformed through maintaining these agreements, shamanic teacher and healer don Miguel Ruiz asserts lives will \"become filled with grace, peace, and unconditional love.\""
    };

    private String[] bio_des={"This best selling poetry book by Nikita Gill is about the journey

of healing from trauma and becoming whole again. Directions: apply to your soul gently, whilst sitting under the stars.",

"This best selling poetry book by Nikita Gill is about the journey of healing from trauma and becoming whole again. Directions: apply to your soul gently, whilst sitting under the stars.",

"This best selling poetry book by Nikita Gill is about the journey of healing from trauma and becoming whole again. Directions: apply to your soul gently, whilst sitting under the stars.",

"This best selling poetry book by Nikita Gill is about the journey of healing from trauma and becoming whole again. Directions: apply to your soul gently, whilst sitting under the stars.",

"This best selling poetry book by Nikita Gill is about the journey of healing from trauma and becoming whole again. Directions: apply to your soul gently, whilst sitting under the stars."
   };
   private String[] bus_des={
      "TMel Robbins will explain the power of a "push moment." Then, she'll give you one simple tool you can use to become your greatest self.\n" +
            "It takes just five seconds to use this tool, and every time you do you'll be in great company",
"Some people are simply great at their job; they always seem to say or do the right thing. They are mentioned in every conversation. Everybody likes them. They get promoted. They get pay raises. They get along with the boss. ",
"The first and most complete book by the motivational master, The Law of Success is now available in a durable keepsake volume designed for display, rereading, and note taking. Here is Napoleon Hill's most complete and comprehensive study of the principles that will make you a success, suited to a lifetime of study. ",
"A groundbreaking New York Times and Wall Street Journal bestseller that is captivating readers of Malcolm Gladwell, Daniel Pink, The Power of Habit, and Quiet For generations, we have focused on the individual drivers of success: passion, hard work, talent, and luck.",
"From Jim Holt, the New York Times bestselling author of Why Does the World Exist?, comes an entertaining and accessible guide to the most profound scientific and mathematical ideas of recent centuries in When Einstein Walked with Gödel Excursions to the Edge of Thought.",

```java
    };
    private String[] nonfic_des={"This best selling poetry book by Nikita Gill is about the
journey of healing from trauma and becoming whole again. Directions: apply to your soul
gently, whilst sitting under the stars.",
        "This best selling poetry book by Nikita Gill is about the journey of healing from
trauma and becoming whole again. Directions: apply to your soul gently, whilst sitting under
the stars.",
        "This best selling poetry book by Nikita Gill is about the journey of healing from
trauma and becoming whole again. Directions: apply to your soul gently, whilst sitting under
the stars.",
        "This best selling poetry book by Nikita Gill is about the journey of healing from
trauma and becoming whole again. Directions: apply to your soul gently, whilst sitting under
the stars.",
        "This best selling poetry book by Nikita Gill is about the journey of healing from
trauma and becoming whole again. Directions: apply to your soul gently, whilst sitting under
the stars."
    };
    TextView tv;
    String[][] book_details = {};
    String[] url={};
    ArrayList list;
    SimpleAdapter sa;
    HashMap<String, String> item;
    private int[]
bus_img={R.drawable.fsecrule,R.drawable.ruleofwork,R.drawable.lawofs,R.drawable.givean
dtake,R.drawable.moonei};
    private int[]
fic_img={R.drawable.learntodanec,R.drawable.endsus,R.drawable.halfgf,R.drawable.emoeat
ing,R.drawable.fouragr};
    private int[]
nonfic_img={R.drawable.fsecrule,R.drawable.ruleofwork,R.drawable.lawofs,R.drawable.give
andtake,R.drawable.moonei};
    private int[]
mot_img={R.drawable.fsecrule,R.drawable.ruleofwork,R.drawable.lawofs,R.drawable.givean
```

```
dtake,R.drawable.moonei};
    private int[]
bio_img={R.drawable.fsecrule,R.drawable.ruleofwork,R.drawable.lawofs,R.drawable.givean
dtake,R.drawable.moonei};
    private int[]
poem_img={R.drawable.soulriver,R.drawable.her,R.drawable.pillowtho,R.drawable.sunadnfl
ow,R.drawable.milkandhoney};
    private int[] img={};


    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_see_books);
        tv = findViewById(R.id.textViewBKTitle);
        Intent it = getIntent();
        String title = it.getStringExtra("title");
        tv.setText(title);
        if(title.compareTo("Fictional")==0){
            book_details=fictional;
            url=fic_url;
            books=fic_des;
            img=fic_img;
        }
        else if(title.compareTo("Motivational")==0){
            book_details=motivational;
            url=motiv_url;
            books=moti_des;
            img=mot_img;
        }
        else if(title.compareTo("Non-Fictional")==0){
            book_details=nonfic;
            url=nonfic_url;
```

```
        books=nonfic_des;

        img=nonfic_img;

    }

    else if(title.compareTo("Business")==0){

        book_details=business;

        url=bus_url;

        books=bus_des;

        img=bus_img;

    }

    else if(title.compareTo("Biographies")==0){

        book_details=bio;

        url=bio_url;

        books=bio_des;

        img=bio_img;

    }

    else{

        url=poem_url;

        book_details=poems;

        books=poem_des;

        img=poem_img;

    }


    list = new ArrayList();

    for (int i = 0; i < book_details.length; i++) {

        item = new HashMap<String, String>();

        item.put("images", img[i] + "");

        item.put("line1", book_details[i][0]);

        item.put("line2", book_details[i][1]);

        item.put("line3", book_details[i][2]);

        item.put("line4", book_details[i][3]);

        item.put("line5", book_details[i][4]);

        list.add(item);

    }
```

```
        sa = new SimpleAdapter(this, list,
                R.layout.multi_lines,
                new String[]{"images","line1", "line2", "line3", "line4", "line5"},
                new int[]{R.id.imageView,R.id.line_a, R.id.line_b, R.id.line_c, R.id.line_d,
R.id.line_e}
            );
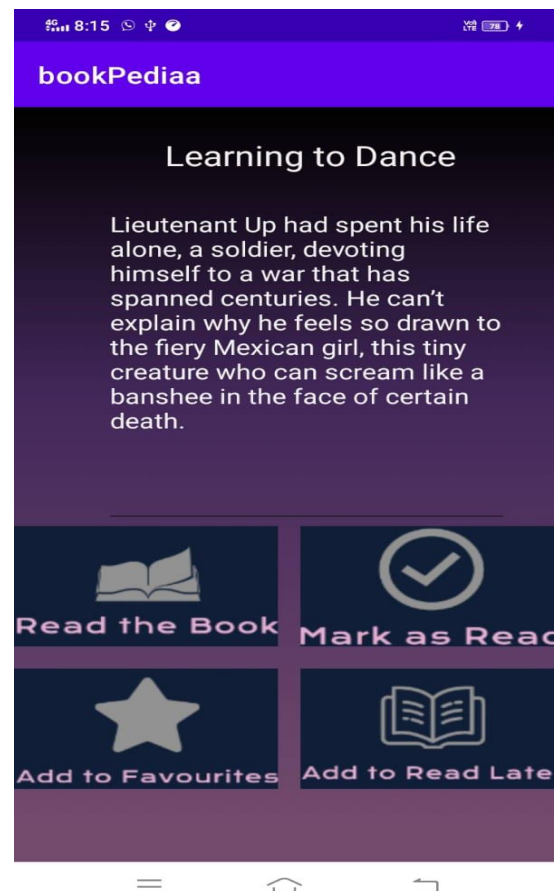
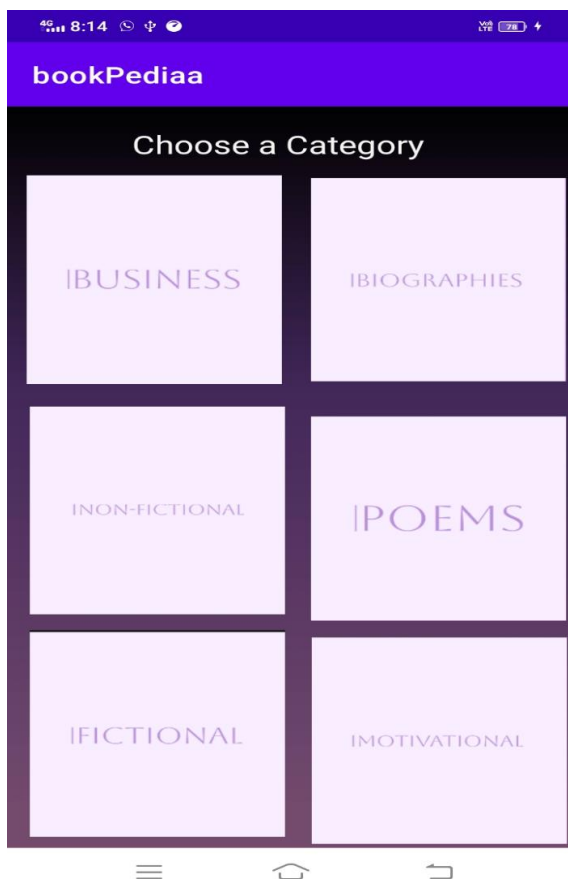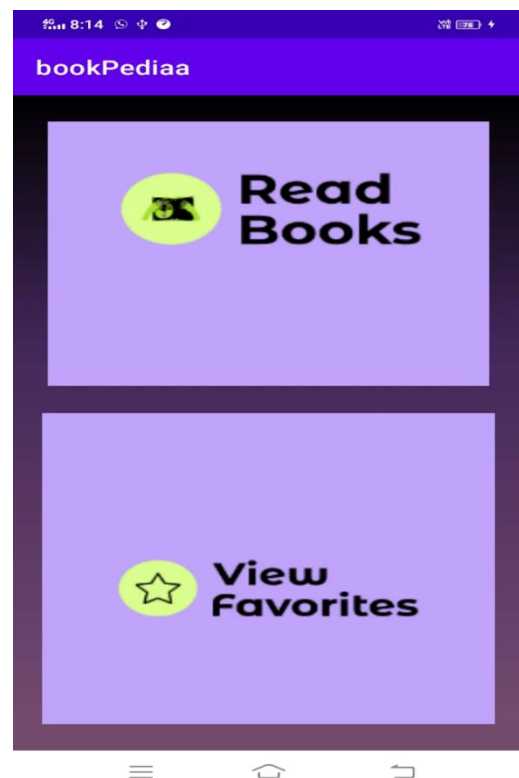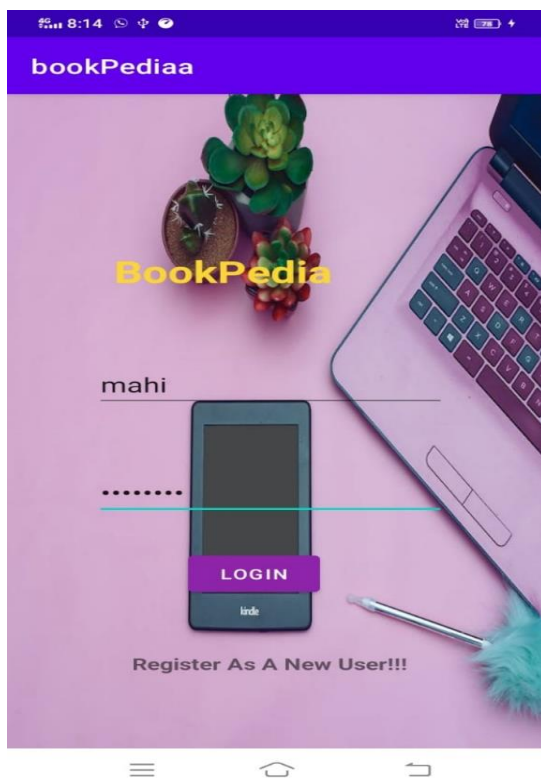
        ListView lst = findViewById(R.id.listViewBK);
        lst.setAdapter(sa);


        lst.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
                Intent it = new Intent(SeeBooks.this, BookDetailsActivity.class);
                it.putExtra("text1", book_details[position][0]);
                it.putExtra("text2", books[position]);
                it.putExtra("text3", url[position]);
                startActivity(it);
            }
        });
    }
}
```

4.3 TEST CASES

Sr. No.	Module	Why	Input	Expected Output	Observed Output	Remark
1	User Login	To check if the access is granted to only to registered users.	Valid Credentials	Access is granted	Access was granted	PASS
2	User Login	To check if the access is granted to only to registered users.	Invalid Credentials	Access is denied alerting the users.	Access was denied and an alert message was displayed to the user.	PASS
3	User Login	To check if the access is granted to only to registered users.	Blank	Access is denied alerting the users.	Access was denied and an alert message was displayed to the user.	PASS
4	Add to favourites	To check if the users can add books to favourites.	Adding for the 1st time	Book is added and a message is displayed.	Book is added and a message is displayed.	PASS
5	Add to favourites	To check if the book is already added to favourites.	Adding for the 2nd time	Book is not added and a message is displayed.	Book is not added and a message is displayed.	PASS
6	Add to read later	To check if the users can add books to read later.	Adding for the 1st time	Book is added and a message is displayed.	Book is added and a message is displayed.	PASS
7	Add to read later	To check if the book is already added to favourites.	Adding for the 2nd time	Book is not added and a message is displayed.	Book is not added and a message is displayed.	PASS
8	Mark as read	To check if the users can mark books as read.	Adding for the 1st time	Book is added and a message is displayed.	Book is added and a message is displayed.	PASS
9	Mark as read	To check if the users can mark books as read.	Adding for the 2nd time	Book is not added and a message is displayed.	Book is not added and a message is displayed.	PASS

4.4 SCREEN LAYOUTS

5. FUTURE ENHANCEMENTS

In future, the users will be able to view the image of the book along with it's author's name and ratings for the user to get a much better overview of the books he is adding to either favourites, saving it to read later or marking it as done.