

BOOK TAP

A

Mini Project Report

Submitted in the partial fulfilment of the

Requirements for the Degree of

BACHELOR OF ENGINEERING

IN

INFORMATION TECHNOLOGY

BY

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DECLARATION BY CANDIDATE

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This is a record of bonafide work carried out by me and the results embodied in this project report have not been submitted to any other university or institute for the award of any other degree or diploma.

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ABSTRACT

In this fast-paced world, many people don't have the time to go to a bookstore and choose a book. Keeping in mind the current pandemic, we have developed an application to bring the traditional bookstore to your device.

The intention behind this project is to design and implement a platform where multiple users can view different books of various genres, including the book's summary, author and rating. Users can post their opinions on books they've read and give a rating out of 5. They can also like and comment on other users' posts and can view the top trending books based on the genre.

Essentially, this application will simplify the exhausting process of selecting a book to read and help connect bibliophiles.

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1. REQUIREMENT ANALYSIS

1.1. LIST OF TABLES

- Users
- Liked genres
- Genres
- Books
- Posts
- Trending

1.2. LIST OF ATTRIBUTES WITH THEIR DOMAIN TYPES

1.2.1. USERS TABLE

- USERNAME VARCHAR2(100)
- FIRSTNAME VARCHAR2(100)
- LASTNAME VARCHAR2(100)
- EMAIL VARCHAR2(200)
- PASSWORD VARCHAR2(100)

1.2.2. LIKED GENRES

- USERNAME VARCHAR2(100)
- INTERESTS VARCHAR2(50)

1.2.3. GENRES

- BOOKID NUMBER(4)
- GENRENAME VARCHAR2(50)

1.2.4. BOOKS

- BOOKID NUMBER(4)
- BOOKNAME VARCHAR2(200)
- AUTHORNAME VARCHAR2(200)
- BOOKSUMMARY CLOB
- RATING NUMBER(3,2)

- PUBLISHER VARCHAR2(100)
- IMAGE BLOB

1.2.5. POSTS

- NAME VARCHAR2(200)
- AUTHOR VARCHAR2(200)
- GENRE VARCHAR2(30)
- REVIEW VARCHAR2(255)
- RATING NUMBER(2,1)
- IMAGE BLOB
- USERNAME VARCHAR2(100)
- TIME TIMESTAMP(6)

1.2.6. TRENDING

- NAME VARCHAR2(200)
- AUTHOR VARCHAR2(100)
- GENRE VARCHAR2(50)
- RATING VARCHAR2(10)
- IMAGE BLOB

2. ARCHITECTURE

2.1. JAVA SWINGS

Java swing tutorial is a part of Java Foundation Classes (JFC) that is used to create window-based applications. It is built on the top of AWT (Abstract Windowing Toolkit) API and entirely written in java. Java swing provides platform independent and lightweight components. The javax.swing package provides classes for Java swing API such as JButton, JTextField, JTextArea, JCheckbox, JOptionPane etc. which we have used to perform various functions in our project

2.2. SQL

Structured Query Language (SQL) is a database query language used for storing and managing data in Relational DBMS. SQL was the first commercial language introduced for E.F Codd's Relational model of database. Today almost all RDBMS (MySQL, Oracle, Infomix, Sybase, MS Access) use SQL as the standard database query language. SQL is used to perform all types of data operations in RDBMS. We have used Oracle database to implement our project.

3. TECHNOLOGY

3.1. SOFTWARE REQUIREMENTS

The following are the software used in our project –

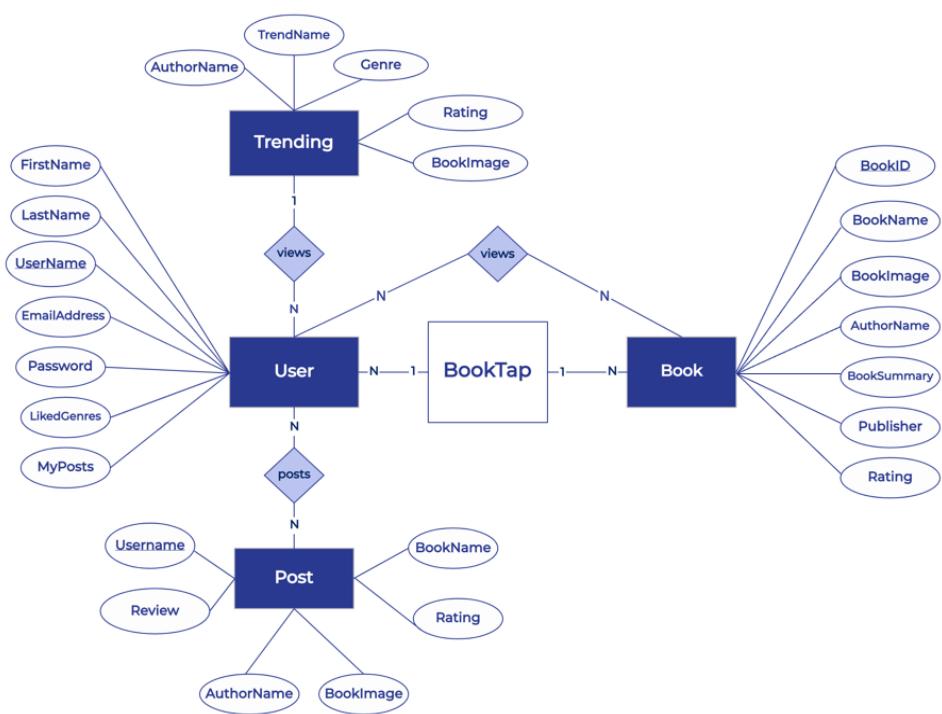
- Java SE version 15.0.2
- Oracle 11g database – SQLPLUS 11.2.0.2.0

3.2. HARDWARE REQUIREMENTS

The hardware interface requirements ensure the software executes all requests given by the user efficiently. They are –

- Processor – Intel core i5 and above
- RAM – Minimum 2GB/4GB and above

4. ER DIAGRAM



5. CARDINALITY

- A Booktap application can have many users ,hence it is a one- to -many relationship(1-N).
- A Booktap application can have many genre related books in it. Hence it is one-to-many relationship(1-N).
- All the users registered in the booktap can view a specific trendlist common to all.Hence it is a many to one relationship(N-1).
- All the users registered in booktap can post about any number of books.Hence it is a many- to- many relationship(N-N).
- All the users registered in booktap can view many number of specific genre related books.Hence it is a many-to-many relationship(N-N).

6. TABLES USED IN DATABASE

6.1. USERS TABLE

SQL> DESC USERS		Null?	Type
Name			

USERNAME			VARCHAR2(100)
FIRSTNAME			VARCHAR2(100)
LASTNAME			VARCHAR2(100)
EMAIL			VARCHAR2(200)
PASSWORD			VARCHAR2(100)

#	USERNAME	FIRSTNAME	LASTNAME	EMAIL	PASSWORD
1	pallavi	Guggilla	Shri Pallavi	pallavi@gmail.com	pallavi
2	srilekhya	Srilekhya	Turlapati	srilekhya@gmail.com	booktap21
3	shriya	Shriya	Sharma	shriya@gmail.com	shriya20
4	sravya	Sravya	Reddy	sravya@gmail.com	pass@21
5	nikitha	Nikitha	Maramraj	nikitha@gmail.com	nik8502

6.2. LIKED GENRES TABLE

SQL> DESC LIKEDGENRES		Null?	Type
Name			

USERNAME			VARCHAR2(100)
INTERESTS			VARCHAR2(50)

#	USERNAME	INTERESTS
1	sravya	Romance
2	sravya	Mystery
3	sravya	Fiction
4	nikitha	Mystery
5	nikitha	Adventure
6	nikitha	Horror
7	nikitha	Fiction
8	pallavi	Poetry
9	pallavi	Poetry
10	pallavi	Fantasy
11	srilekhya	Fantasy
12	srilekhya	Fiction
13	shriya	Non-Fiction
14	shriya	Horror

6.3. GENRES TABLE

SQL> DESC GENRES		
Name	Null?	Type
BOOKID		NUMBER(4)
GENRENAME		VARCHAR2(50)

#	BOOKID	GENRENAME
1	1	Adventure
2	1	Fiction
3	2	Fantasy
4	2	Children
5	3	Fantasy
6	3	Children
7	4	Fantasy
8	4	Children
9	5	Adventure
10	6	Classics
11	6	Romance
12	7	Adventure
13	7	Fantasy
14	7	Fantasy
15	7	Mystery
16	8	Adventure
17	8	Fantasy
18	8	Fiction
19	8	Mystery
20	9	Adventure
21	9	Fiction
22	10	Adventure
23	11	Adventure
24	11	Mystery
25	11	Fantasy
26	11	Fiction
27	12	Children
28	12	Fiction
29	12	Classics
30	13	Children
31	13	Adventure
32	14	Children
33	14	Fantasy
34	14	Fiction
35	15	Classics
36	15	Romance
37	16	Classics
38	17	Classics
39	18	Classics
40	19	Fiction
41	19	Fantasy
42	19	Adventure
43	20	Adventure
44	20	Fiction
45	20	Children
46	21	Mystery
47	21	Horror
48	21	Fiction

6.4. BOOKS TABLE

SQL> DESC BOOKS			
Name	Null?	Type	
BOOKID		NUMBER(4)	<BLOB 14 kB>
BOOKNAME		VARCHAR2(200)	<BLOB 9 kB>
AUTHORNAME		VARCHAR2(200)	<BLOB 19 kB>
BOOKSUMMARY		CLOB	<BLOB 15 kB>
RATING		NUMBER(3,2)	<BLOB 17 kB>
PUBLISHER		VARCHAR2(100)	<BLOB 18 kB>
IMAGE		BLOB	<BLOB 14 kB>

1	29 Alexander Hamilton	Ron Chernow	It is a 2004 biography of American statesm...	5 Penguin Press	<BLOB 14 kB>
2	30 The Rumi Collection	Jalal ad-Din Muhammad Rumi	Jalal ad-Din Muhammad Rumi was a 13th...	5 OneWorld Publications	<BLOB 9 kB>
3	31 The Complete Sonnets and Poems by William Shakespeare		This book combines his sonnets and unfor...	5 Oxford University Press	<BLOB 19 kB>
4	32 The Poetry of Robert Frost	Robert Frost	Appropriately, Robert Frost's Poems contai...	5 Vintage	<BLOB 15 kB>
5	33 Jane Eyre	Charlotte Bronte	This 1847 classic tells the tale of courageo...	5 Smith, Elder and Co.	<BLOB 15 kB>
6	34 The Notebook	Nicholas Sparks	The Notebook is a contemporary love story ...	5 Warner Books	<BLOB 17 kB>
7	35 Gone With The Wind	Margaret Mitchell	The story is set in Clayton County and Atla...	4.5 Macmillan Publishers	<BLOB 18 kB>
8	36 The Proposal	Jasmine Gullory	Freelance writer Nik's boyfriend proposes a...	5 Hachet UK	<BLOB 14 kB>
9	19 The Hobbit	J.R.R. Tolkien	One day while grading essays, JRR Tolkien ...	5 George Allen and Unwin	<BLOB 13 kB>
10	20 Gulliver's Travels	Jonathan Swift	Humorist Jonathan Swift chronicles the tra...	4.3 Benjamin Motte	<BLOB 18 kB>
11	21 Invisible Man	H.G. Wells	Published in 1897, this story concerns the li...	3.8 C. Arthur Pearson	<BLOB 8 kB>
12	22 The Haunting of Hill House	Shirley Jackson	The Haunting of Hill House is simply the be...	3.9 Viking	<BLOB 19 kB>
13	23 Dracula	Bram Stoker	This novel is told by multiple narrators in a ...	4.3 Archibald Constable and Company	<BLOB 18 kB>
14	24 The Shining	Stephen King	Published in 1977, this famous novel center...	5 Doubleday	<BLOB 12 kB>
15	25 The Exorcist	William Peter Blatty	Based on true events, The Exorcist is a 197...	5 Harper and Row	<BLOB 10 kB>
16	26 IT	Stephen King	The story follows the experiences of seven ...	5 Viking	<BLOB 13 kB>
17	27 A Brief History of Time	Stephen Hawking	It is a book on theoretical cosmology by En...	5 Bantam Dell Publishing Group	<BLOB 19 kB>
18	28 The Diary of a Young Girl	Anne Frank	It is a book of the writings from the Dutch-l...	5 Contact Publishing	<BLOB 16 kB>
19	9 Life of Pi	Yann Martel	Piscine Patel, nicknamed Pi, relates the sto...	5 Knopf Canada	<BLOB 16 kB>
20	10 Around the World in 80 Days	Jules Verne	If you had a spare 80 days, what would you ...	4.8 Pierre-Jules Hetzel	<BLOB 18 kB>
21	11 The Mysterious Island	Jules Verne	Another adventure story by Jules Verne, T...	4 Pierre-Jules Hetzel	<BLOB 14 kB>
22	12 Jungle Book	Rudyard Kipling	Rudyard Kipling published this book in 189...	4 Macmillan	<BLOB 24 kB>
23	13 The Adventures of Tom Sawyer	Mark Twain	The Adventures of Tom Sawyer is an 1876 ...	4.2 American Publishing Company	<BLOB 21 kB>
24	14 The Tale of Despereaux	Kate DiCamillo	You've probably never met a hero like Desp...	3.9 Candlewick Press	<BLOB 15 kB>
25	15 Little Women	Louisa May Alcott	In Little Women, Louisa May Alcott set out ...	5 Robert Brothers	<BLOB 17 kB>
26	16 A Tale of Two Cities	Charles Dickens	After 18 years in the Bastille, Dr Manette is...	4.7 London: Chapman and Hall	<BLOB 19 kB>
27	17 To Kill a Mockingbird	Harper Lee	A novel before its time, Harper Lee's Pult...	4.5 J.B. Lippincott and Co.	<BLOB 19 kB>
28	18 Oliver Twist	Charles Dickens	The story centres on orphan Oliver Twist, b...	4.8 Richard Bentley	<BLOB 19 kB>
29	1 Treasure Island	Robert Louis Stevenson	Treasure Island is an adventure novel by Sc...	3.38 Kingfisher	<BLOB 21 kB>
30	2 Harry Potter and the Sorcerer's Stone	J.K. Rowling	Harry Potter and the Sorcerer's Stone bring...	4.59 Scholastic Inc.	<BLOB 19 kB>
31	3 Alice's Adventures in Wonderland	Lewis Carroll	In this quintessential novel, seven-year-old...	4 Macmillan Publishers	<BLOB 21 kB>
32	4 The Lion, the Witch, and the Wardrobe	C.S. Lewis	As the first of seven novels in the series Th...	4.79 Geoffrey Bles	<BLOB 20 kB>
33	5 Twenty Thousand Leagues Under the Seas	Jules Verne	In this tale, the Atlantic Ocean is plagued b...	5 Pierre-Jules Hetzel	<BLOB 18 kB>
34	6 Pride and Prejudice	Jane Austen	Pride and Prejudice follows the character d...	4.3 Thomas Egerton	<BLOB 20 kB>
35	7 Moby Dick	Herman Melville	Call me Ishmael, begins this epic story. Acc...	5 Richard Bentley, Harper and Brothers	<BLOB 14 kB>
36	8 Journey to the Center of the Earth	Jules Verne	Journey to the Center of the Earth is exact...	4 Pierre-Jules Hetzel	<BLOB 14 kB>

6.5. POSTS TABLE

SQL> DESC POSTS			
Name	Null?	Type	
NAME		VARCHAR2(200)	<BLOB 20 kB>
AUTHOR		VARCHAR2(200)	<BLOB 19 kB>
GENRE		VARCHAR2(30)	<BLOB 19 kB>
REVIEW		VARCHAR2(255)	<BLOB 20 kB>
RATING		NUMBER(2,1)	<BLOB 20 kB>
IMAGE		BLOB	<BLOB 14 kB>
USERNAME		VARCHAR2(100)	<BLOB 19 kB>
TIME		TIMESTAMP(6)	<BLOB 19 kB>

#	NAME	AUTHOR	GENRE	REVIEW	RATING	IMAGE
1	A walk to remember	Nicholas Sparks	Romance	A Walk to Remember truly is a beautiful bo...	4.3	<BLOB 51 kB>
2	The Woman who saved my life	Himanshu Goel	Poetry	This is a collection of beautiful poetry writ...	4.3	<BLOB 20 kB>
3	Where the crawdads sing	Della Owens	Fiction	This wonderful novel has a bit of everythin...	4.4	<BLOB 36 kB>
4	Alice's adventures in wonderland	Lewis Carroll	Classics	The book is brilliant for children, but with e...	4.3	<BLOB 38 kB>
5	These violent delights	Chloe Gong	Fantasy	This is a strong, epic debut novel from pro...	4.2	<BLOB 31 kB>
6	Near the bone	Christina Henry	Horror	A woman trapped on a mountain attempts ...	4.2	<BLOB 19 kB>
7	Becoming	Michelle Obama	Non-fiction	Becoming Is the deeply personal reckoning ...	4.7	<BLOB 21 kB>
8	Life of Pi	Yann Martel	Adventure	"Life of Pi" is a beautiful, emotionally reson...	4.8	<BLOB 32 kB>
9	The Guest List	Lucy Foley	Mystery	Clever!	4.3	<BLOB 34 kB>

6.6. TRENDING TABLE

SQL> DESC TRENDING		
Name	Null?	Type
NAME		VARCHAR2(200)
AUTHOR		VARCHAR2(100)
GENRE		VARCHAR2(50)
RATING		VARCHAR2(10)
IMAGE		BLOB

#	NAME	AUTHOR	GENRE	RATING	IMAGE
1	Little Women	Louisa May Alcott	Classics	4.6	<BLOB 47 kB>
2	Six of Crows	Leigh Bardugo	Fantasy	4.6	<BLOB 34 kB>
3	Angels and Demons	Dan Brown	Adventure	4.6	<BLOB 24 kB>
4	The Night Circus	Erin Morgenstern	Fantasy	4.7	<BLOB 27 kB>
5	Serpent and Dove	Shelby Mahurin	Fantasy	4.4	<BLOB 34 kB>
6	Where the moon sets	Eden V. Smith	Poetry	4.5	<BLOB 9 kB>
7	Leaves of Grass	Walt Whitman	Poetry	4.3	<BLOB 32 kB>
8	All this wild hope	Sabina Laura	Poetry	4.6	<BLOB 15 kB>
9	Such Pretty Things	Lisa Heathfield	Horror	4.2	<BLOB 21 kB>
10	The Midnight Library	Matt Haig	Fiction	4.7	<BLOB 28 kB>
11	The Hating Game	Sally Thorne	Fiction	4.4	<BLOB 31 kB>
12	Beach Read	Emily Henry	Romance	4.6	<BLOB 26 kB>
13	Love the way you lie	Lisa Unger	Horror	4.3	<BLOB 38 kB>
14	Paradox Lake	Vincent Zandri	Horror	4.5	<BLOB 30 kB>
15	Truly Devious	Maureen Johnson	Mystery	4.5	<BLOB 36 kB>
16	Sharp Objects	Gillyan Flynn	Mystery	4.6	<BLOB 18 kB>
17	The Woman in the Window	A. J. Finn	Mystery	4.8	<BLOB 43 kB>
18	Homo Deus	Yuval Noah Harari	Non-fiction	4.8	<BLOB 23 kB>
19	Tuesdays with Morrie	Mitch Albom	Non-fiction	4.6	<BLOB 20 kB>
20	The Diary of a Young Girl	Anne Frank	Non-fiction	4.8	<BLOB 29 kB>
21	Anxious People	Fredrik Backman	Fiction	4.5	<BLOB 35 kB>
22	It ends with us	Colleen Hoover	Romance	4.4	<BLOB 38 kB>
23	Eleanor and Park	Rainbow Rowell	Romance	4.8	<BLOB 28 kB>
24	Treasure Island	Robert Louis Stevenson	Adventure	4.2	<BLOB 31 kB>
25	Life of Pi	Yann Martel	Adventure	4.6	<BLOB 32 kB>
26	Heidi	Johanna Spyri	Classics	4.5	<BLOB 44 kB>
27	Macbeth	William Shakespeare	Classics	4.3	<BLOB 16 kB>

7. IMPLEMENTATION

7.1. FRONT END PROGRAMMING AND CONNECTIVITY

Java Database Connectivity (JDBC) is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Java-based data access technology used for Java database connectivity. It is a part of the Java Edition platform, from Oracle Corporation. It provides methods to query and update data in a database and is oriented towards relational databases.

The connection to the database can be performed using Java programming (JDBC API) as –

```
import java.sql.*;
public class Connection {
    public static void main (String[] args) {
        try {
            //step1 load the driver class
            Class.forName("oracle.jdbc.driver.OracleDriver");

            //step2 create the connection object
            Connection con = DriverManager.getConnection("jdbc:oracle:thin:@"
                "localhost:1521:xe", "it175", "sravya");

            //step3 create the statement object
            Statement stmt = con.createStatement();

            Statement.executeUpdate("COMMIT");

            //close the connection
            con.close();
        }
        catch (Exception e){
            JOptionPane.showMessageDialog(null, e);
        }
    }
}
```

Connection to Oracle database through Java frontend has now been done. Now you can update your tables directly in your database through Java.

7.2. CODE

7.2.1. WelcomeSplashScreen.java

```
package booktap;

public class WelcomeSplashScreen extends javax.swing.JFrame {

    public WelcomeSplashScreen() {
        initComponents();
    }

    private void initComponents() {

        jPanel_Background = new javax.swing.JPanel();
        jProgressBar>LoadingBar = new javax.swing.JProgressBar();
        jLabel_Percent = new javax.swing.JLabel();
        jPanel_Heading = new javax.swing.JPanel();
        BookTapHeadingLabel = new javax.swing.JLabel();
        jLabel_BackgroundImage = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("WELCOME SPLASH SCREEN");
        setSize(new java.awt.Dimension(998, 570));

        jPanel_Background.setBackground(new java.awt.Color(255, 255, 255));
        jPanel_Background.setMinimumSize(new java.awt.Dimension(998, 570));
        jPanel_Background.setPreferredSize(new java.awt.Dimension(998, 570));
        jPanel_Background.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

        jProgressBar>LoadingBar.setForeground(new java.awt.Color(139, 69, 19));
        jPanel_Background.add(jProgressBar>LoadingBar, new org.netbeans.lib.awtextra.AbsoluteConstraints(70, 470, 880, 20));

        jLabel_Percent.setBackground(new java.awt.Color(255, 102, 153));
```

```
jLabel_Percent.setFont(new java.awt.Font("Century Gothic", 1, 24)); // NOI18N
jLabel_Percent.setForeground(new java.awt.Color(255, 102, 0));
jLabel_Percent.setText("%");
jPanel_Background.add(jLabel_Percent, new org.netbeans.lib.awtextra.AbsoluteConstraints(480, 390, 200, 90));

jPanel_Heading.setBackground(new java.awt.Color(139, 69, 19));
jPanel_Heading.setPreferredSize(new java.awt.Dimension(640, 180));

BookTapHeadingLabel.setBackground(new java.awt.Color(0, 0, 0));
BookTapHeadingLabel.setFont(new java.awt.Font("Malgun Gothic", 0, 100)); // NOI18N
BookTapHeadingLabel.setText("BookTap");

javax.swing.GroupLayout jPanel_HeadingLayout = new javax.swing.GroupLayout(jPanel_Heading);
jPanel_Heading.setLayout(jPanel_HeadingLayout);
jPanel_HeadingLayout.setHorizontalGroup(
    jPanel_HeadingLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel_HeadingLayout.createSequentialGroup()
            .addContainerGap()
            .addComponent(BookTapHeadingLabel)
            .addContainerGap())
);

jPanel_HeadingLayout.setVerticalGroup(
    jPanel_HeadingLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel_HeadingLayout.createSequentialGroup()
            .addContainerGap()
            .addComponent(BookTapHeadingLabel)
            .addContainerGap())
);

.jaddGroup(jPanel_HeadingLayout.createSequentialGroup()
    .addGap(123, Short.MAX_VALUE)
    .addComponent(BookTapHeadingLabel)
    .addGap(103, 103, 103))
);
jPanel_HeadingLayout.setVerticalGroup(jPanel_HeadingLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING))

.jaddGroup(jPanel_HeadingLayout.createSequentialGroup()
    .addGap(27, 27, 27)
    .addComponent(BookTapHeadingLabel, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(32, Short.MAX_VALUE))
);
jPanel_HeadingLayout.setVerticalGroup(jPanel_HeadingLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING))

.jaddGroup(jPanel_HeadingLayout.createSequentialGroup()
    .addGap(27, 27, 27)
    .addComponent(BookTapHeadingLabel, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(32, Short.MAX_VALUE))
);
jPanel_HeadingLayout.setVerticalGroup(jPanel_HeadingLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING))
```

```

        jPanel_Background.add(jPanel_Heading,           new
org.netbeans.lib.awtextra.AbsoluteConstraints(190, 60, 620, -1));

        jLabel_BackgroundImage.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Login_Interests
images/BookFlip.gif"))); // NOI18N
        jPanel_Background.add(jLabel_BackgroundImage,   new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 998, 570));

        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addContainerGap()
                    .addComponent(jPanel_Background,
                    javax.swing.GroupLayout.PREFERRED_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(0, 0, Short.MAX_VALUE))
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addContainerGap()
                    .addComponent(jPanel_Background,
                    javax.swing.GroupLayout.PREFERRED_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(0, 0, Short.MAX_VALUE))
        );

        pack();
        setLocationRelativeTo(null);
    }

    public static void main(String args[]) {
        WelcomeSplashScreen mysplash=new
WelcomeSplashScreen();
        mysplash.setVisible(true);
        try
        {

```

```

        for(int i=0;i<=100;i++)
        {
            Thread.sleep(40);

            mysplash.jProgressBar_LoadingBar.setValue(i);

            mysplash.jLabel_Percent.setText(Integer.t
oString(i)+"% ");
        }
    catch(Exception e)
    {
    }
    new MainOptionsScreen().setVisible(true);
    mysplash.dispose();
}

private javax.swing.JLabel BookTapHeadingLabel;
private javax.swing.JLabel jLabel_BackgroundImage;
private javax.swing.JLabel jLabel_Percent;
private javax.swing.JPanel jPanel_Background;
private javax.swing.JPanel jPanel_Heading;
private javax.swing.JProgressBar jProgressBar_LoadingBar;
}

```

7.2.2. MainOptionsScreen.java

```

package booktap;

public class MainOptionsScreen extends javax.swing.JFrame {

    public MainOptionsScreen() {
        initComponents();
    }

    private void initComponents() {

        Outerpane = new javax.swing.JLayeredPane();
        Outerpanel = new javax.swing.JPanel();
        jLayeredPane_InnerPane = new javax.swing.JLayeredPane();
        JPanel_InnerPanel = new javax.swing.JPanel();

```

```

jLabel_BookTap = new javax.swing.JLabel();
jLabel_Login = new javax.swing.JButton();
jButton_Register = new javax.swing.JButton();
jButton_Exit = new javax.swing.JButton();
jLabel_Logo = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.
EXIT_ON_CLOSE);
setTitle("MAIN OPTIONS");
setSize(new java.awt.Dimension(1000, 600));

Outerpane.setPreferredSize(new
java.awt.Dimension(1000, 600));

Outerpanel.setBackground(new java.awt.Color(43, 37,
56));
Outerpanel.setPreferredSize(new
java.awt.Dimension(1000, 600));

javax.swing.GroupLayout
jLayeredPane_InnerPaneLayout = new
javax.swing.GroupLayout(jLayeredPane_InnerPane);
jLayeredPane_InnerPane.setLayout(jLayeredPane_
InnerPaneLayout);
jLayeredPane_InnerPaneLayout.setHorizontalGroup(
jLayeredPane_InnerPaneLayout.createParallelGroup(javax.swing.GroupLayout.
layout.Alignment.LEADING)
.addGap(0, 921, Short.MAX_VALUE)
);
jLayeredPane_InnerPaneLayout.setVerticalGroup(
jLayeredPane_InnerPaneLayout.createParallelGroup(javax.swing.GroupLayout.
layout.Alignment.LEADING)
.addGap(0, 529, Short.MAX_VALUE)
);

jPanel_InnerPanel.setBackground(new java.awt.Color(17,
94, 111));

jLabel_BookTap.setBackground(new java.awt.Color(255,
102, 153));
jLabel_BookTap.setFont(new java.awt.Font("Malgun
Gothic", 0, 90)); // NOI18N
jLabel_BookTap.setForeground(new java.awt.Color(255,
255, 255));

```

```

        jLabel_BookTap.setText("BookTap");

        jLabel_Login.setBackground(new java.awt.Color(255, 182, 28));
        jLabel_Login.setFont(new java.awt.Font("Malgun Gothic", 1, 18)); // NOI18N
        jLabel_Login.setForeground(new java.awt.Color(43, 37, 56));
        jLabel_Login.setText("LOGIN");
        jLabel_Login.setBorder(null);
        jLabel_Login.setFocusPainted(false);

        jLabel_Login.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                jLabel_LoginActionPerformed(evt);
            }
        });

        jButton_Exit.setBackground(new java.awt.Color(255, 182, 28));
        jButton_Exit.setFont(new java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
        jButton_Exit.setForeground(new java.awt.Color(43, 37, 56));
        jButton_Exit.setText("Exit");
        jButton_Exit.setBorder(null);
        jButton_Exit.setFocusPainted(false);
        jButton_Exit.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                jButton_ExitActionPerformed(evt);
            }
        });

        jLabel_Logo.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Login_Interests
images/LOGO.PNG"))); // NOI18N
        jLabel_Logo.setPreferredSize(new
java.awt.Dimension(87, 87));

        javax.swing.GroupLayout jPanel_InnerPanelLayout = new
javax.swing.GroupLayout(jPanel_InnerPanel);

```

```

jPanel_InnerPanel.setLayout(jPanel_InnerPanelLayout);
jPanel_InnerPanelLayout.setHorizontalGroup (
jPanel_InnerPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jPanel_InnerPanelLayout.createSequentialGroup()
.addContainerGap(229, Short.MAX_VALUE)

.addGroup(jPanel_InnerPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jPanel_InnerPanelLayout.createSequentialGroup()
.addGroup(jPanel_InnerPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, 218,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jButton_Register,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jLabel_Login,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(337, 337, 337))

.addGroup(jPanel_InnerPanelLayout.createSequentialGroup()
.addGroup(jPanel_InnerPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, 218,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jLabel_Logo,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(30, 30, 30)

.addComponent(jLabel_BookTap)
.addGap(214, 214, 214))

.addGroup(jPanel_InnerPanelLayout.createSequentialGroup()
.addGroup(jPanel_InnerPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, 95,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jButton_Exit,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(59, 59, 59)))
);


```

```

        jPanel_InnerPanelLayout.setVerticalGroup(
jPanel_InnerPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel_InnerPanelLayout.createSequentialGroup()

.addGroup(jPanel_InnerPanelLayout.createParallelGroup(
javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel_InnerPanelLayout.createSequentialGroup()

.addGap(43, 43, 43)

.addComponent(jLabel_BookTap))

.addGroup(jPanel_InnerPanelLayout.createSequentialGroup()
up()

.addGap(61, 61, 61)

.addComponent(jLabel_Logo,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))

.addGap(76, 76, 76)

.addComponent(jLabel_Login,
javax.swing.GroupLayout.PREFERRED_SIZE,           52,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(46, 46, 46)

.addComponent(jButton_Register,
javax.swing.GroupLayout.PREFERRED_SIZE,           52,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
60, Short.MAX_VALUE)

.addComponent(jButton_Exit,
javax.swing.GroupLayout.PREFERRED_SIZE,           38,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(36, 36, 36))

});

javax.swing.GroupLayout OuterpanelLayout = new
javax.swing.GroupLayout(Outerpanel);

```

```

        Outerpanel.setLayout(OuterpanelLayout);
        OuterpanelLayout.setHorizontalGroup(
OuterpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(OuterpanelLayout.createSequentialGroup()
        .addGap(44, 44, 44)
        .addComponent(jPanel_InnerPanel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jLayeredPane_InnerPane,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);

        OuterpanelLayout.setVerticalGroup(
OuterpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(OuterpanelLayout.createSequentialGroup()
        .addGap(47, 47, 47)
        .addComponent(jLayeredPane_InnerPane,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
OuterpanelLayout.createSequentialGroup()
        .addGroup(OuterpanelLayout.createSequentialGroup()
        .addContainerGap(39, Short.MAX_VALUE)

```

```

        .addComponent(jPanel_InnerPanel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap(38, Short.MAX_VALUE))

);

Outerpane.setLayer(Outerpanel,
javax.swing.JLayeredPane.DEFAULT_LAYER);

javax.swing.GroupLayout OuterpaneLayout = new
javax.swing.GroupLayout(Outerpane);

Outerpane.setLayout(OuterpaneLayout);

OuterpaneLayout.setHorizontalGroup(
OuterpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
OuterpaneLayout.createSequentialGroup()

.addComponent(Outerpanel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(0, 0, Short.MAX_VALUE))

);

OuterpaneLayout.setVerticalGroup(
OuterpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
OuterpaneLayout.createSequentialGroup()

.addComponent(Outerpanel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(0, 0, Short.MAX_VALUE))

```

```

);

        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(Outerpane,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
);
        layout.setVerticalGroup(
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(Outerpane,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
);
        pack();
        setLocationRelativeTo(null);
    }

    private void jButton_RegisterActionPerformed(java.awt.event.ActionEvent evt) {
        Register r=new Register();
        r.show();
        dispose();
    }

    private void jLabel_LoginActionPerformed(java.awt.event.ActionEvent evt) {
        Login l = new Login();

```

```

        l.show();
        dispose();
    }

    private void
jButton_ExitActionPerformed(java.awt.event.ActionEvent evt) {
    System.exit(0);
}

public static void main(String args[]) {
    try {
        for(javax.swing.UIManager.LookAndFeelInfo info
: javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Metal".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(MainOptionsS
creen.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
    }
    catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(MainOptionsS
creen.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
    }
    catch (IllegalAccessException ex) {

```

```

        java.util.logging.Logger.getLogger(MainOptionsS
creen.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);

    }

    catch (javax.swing.UnsupportedLookAndFeelException
ex) {

        java.util.logging.Logger.getLogger(MainOptionsS
creen.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);

    }

    java.awt.EventQueue.invokeLater(new Runnable() {

        public void run() {

            new MainOptionsScreen().setVisible(true);

        }

    });

}

private javax.swing.JLayeredPane Outerpane;
private javax.swing.JPanel Outerpanel;
private javax.swing.JButton jButton_Exit;
private javax.swing.JButton jButton_Register;
private javax.swing.JLabel jLabel_BookTap;
private javax.swing.JButton jLabel_Login;
private javax.swing.JLabel jLabel_Logo;
private javax.swing.JLayeredPane jLayeredPane_InnerPane;
private javax.swing.JPanel jPanel_InnerPanel;

}

```

7.2.3. Login.java

```
package booktap;

import java.sql.*;
import javax.swing.JOptionPane;

public class Login extends javax.swing.JFrame {

    public Login() {
        Connection con = null;
        PreparedStatement pstmt = null;
        ResultSet rs = null;
        initComponents();
    }

    private void initComponents() {

        jPanel_Login = new javax.swing.JPanel();
        jLabel_Login = new javax.swing.JLabel();
        jLabel_Username = new javax.swing.JLabel();
        jLabel_Password = new javax.swing.JLabel();
        jTextField_Username = new javax.swing.JTextField();
        jPasswordField_Password = new javax.swing.JPasswordField();
        jButton_Login = new javax.swing.JButton();
        jButton_GoBack = new javax.swing.JButton();
        jLabel_Background = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("LOGIN");
        setSize(new java.awt.Dimension(1000, 600));
        getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

        jPanel_Login.setBackground(new java.awt.Color(0, 0, 0));
        jPanel_Login.setForeground(new java.awt.Color(255, 255, 255));
        jPanel_Login.setOpaque(true);

        jLabel_Login.setBackground(new java.awt.Color(255, 200, 90));
        jLabel_Login.setOpaque(true);

        javax.swing.GroupLayout jPanel_LoginLayout = new javax.swing.GroupLayout(jPanel_Login);
        jPanel_Login.setLayout(jPanel_LoginLayout);
        jPanel_LoginLayout.setHorizontalGroup(
            jPanel_LoginLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel_LoginLayout.createSequentialGroup()
                .addGap(100, 100, 100)
                .addComponent(jLabel_Login)
                .addGap(100, 100, 100)
                .addComponent(jTextField_Username, javax.swing.GroupLayout.PREFERRED_SIZE, 200, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(100, 100, 100)
                .addComponent(jPasswordField_Password, javax.swing.GroupLayout.PREFERRED_SIZE, 200, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(100, 100, 100)
                .addComponent(jButton_Login)
                .addGap(100, 100, 100)
                .addComponent(jButton_GoBack)
                .addGap(100, 100, 100)
                .addComponent(jLabel_Background)
                .addGap(100, 100, 100))
        );
        jPanel_LoginLayout.setVerticalGroup(
            jPanel_LoginLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel_LoginLayout.createSequentialGroup()
                .addGap(100, 100, 100)
                .addComponent(jLabel_Login)
                .addGap(100, 100, 100)
                .addComponent(jTextField_Username, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(100, 100, 100)
                .addComponent(jPasswordField_Password, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(100, 100, 100)
                .addComponent(jButton_Login)
                .addGap(100, 100, 100)
                .addComponent(jButton_GoBack)
                .addGap(100, 100, 100)
                .addComponent(jLabel_Background)
                .addGap(100, 100, 100))
        );

        getContentPane().add(jPanel_Login, "center");

        pack();
    }
}
```

```

        jLabel_Login.setFont(new java.awt.Font("Malgun
Gothic", 1, 45)); // NOI18N
        jLabel_Login.setForeground(new java.awt.Color(255,
200, 90));
        jLabel_Login.setText(" LOGIN");

        jLabel_Username.setBackground(new
java.awt.Color(255, 200, 90));
        jLabel_Username.setFont(new java.awt.Font("Malgun
Gothic", 1, 20)); // NOI18N
        jLabel_Username.setForeground(new java.awt.Color(255,
200, 90));
        jLabel_Username.setText("Username ");

        jLabel_Password.setBackground(new java.awt.Color(255,
200, 90));
        jLabel_Password.setFont(new java.awt.Font("Malgun
Gothic", 1, 20)); // NOI18N
        jLabel_Password.setForeground(new java.awt.Color(255,
200, 90));
        jLabel_Password.setText("Password ");

        jTextField_Username.setBackground(new
java.awt.Color(255, 200, 90));
        jTextField_Username.setFont(new java.awt.Font("Malgun
Gothic", 1, 14)); // NOI18N

        jTextField_Username.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 5, 1, 1));

        jPasswordField_Password.setBackground(new
java.awt.Color(255, 200, 90));
        jPasswordField_Password.setFont(new
java.awt.Font("Malgun Gothic", 1, 14)); // NOI18N

        jPasswordField_Password.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 5, 1, 1));
        jPasswordField_Password.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                jPasswordField_PasswordActionPerformed(evt);
            }
        });
    });

```



```

    .addGap(63, 63, 63)
    .addGroup(jPanel_LoginLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING))
    .addComponent(jLabel_Username)
    .addComponent(jLabel_Password))
    .addGap(15, 15, 15)
    .addGroup(jPanel_LoginLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false))
    .addComponent(jTextField_Username,
        javax.swing.GroupLayout.DEFAULT_SIZE, 215, Short.MAX_VALUE)
    .addComponent(jPasswordField_Password)))
    .addGroup(jPanel_LoginLayout.createSequentialGroup()
    .addGap(199, 199, 199)
    .addComponent(jButton_Login,
        javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
        Short.MAX_VALUE))

    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
        jPanel_LoginLayout.createSequentialGroup()
        .addContainerGap(168, Short.MAX_VALUE)
        .addGroup(jPanel_LoginLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel_LoginLayout.createSequentialGroup()
                .addComponent(jLabel_Login,
                    javax.swing.GroupLayout.PREFERRED_SIZE,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addGroup(jPanel_LoginLayout.createSequentialGroup()
                    .addComponent(jButton_Login,
                        javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addGroup(jPanel_LoginLayout.createSequentialGroup()
                        .addComponent(jButton_GoBack,
                            javax.swing.GroupLayout.PREFERRED_SIZE,
                            javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addGroup(jPanel_LoginLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addGroup(jPanel_LoginLayout.createSequentialGroup()
                                .addGap(25, 25, 25)))
                            .addContainerGap())))
                .addGap(166, 166, 166)))
            .addGroup(jPanel_LoginLayout.setVerticalGroup(
                jPanel_LoginLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel_LoginLayout.createSequentialGroup()
                    .addGroup(jPanel_LoginLayout.createSequentialGroup()
                        .addComponent(jButton_Login,
                            javax.swing.GroupLayout.PREFERRED_SIZE,
                            javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addGroup(jPanel_LoginLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addGroup(jPanel_LoginLayout.createSequentialGroup()
                                .addGap(28, 28, 28)))
                            .addContainerGap())))
                .addGroup(jPanel_LoginLayout.createSequentialGroup()
                    .addGap(28, 28, 28)
                    .addGap(28, 28, 28)))))));

```

```

.addComponent(jLabel_Login)
.addGap(48, 48, 48)

.addGroup(jPanel_LoginLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(jLabel_Username)
.addComponent(jTextField_Username,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(29, 29, 29) 27,

.addGroup(jPanel_LoginLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(jLabel_Password)
.addComponent(jPasswordField_Password,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)) 27,

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 54, Short.MAX_VALUE)
.addComponent(jButton_Login,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE) 35,

```

```

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addComponent(jButton_GoBack,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(25, 25, 25)) 35,
);
```

```

getContentPane().add(jPanel_Login, new
org.netbeans.lib.awtextra.AbsoluteConstraints(260, 120, 500, 380));
```

```

jLabel_Background.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Login_Interests
images/LoginCoverImage.jpg"))); // NOI18N
getContentPane().add(jLabel_Background, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, -1, -1)); 85
```

```

setSize(new java.awt.Dimension(1011, 632));
setLocationRelativeTo(null);
}
```

```

        private void
jPasswordField_PasswordActionPerformed(java.awt.event.ActionEvent evt) {

}

        private void
jButton_LoginActionPerformed(java.awt.event.ActionEvent evt) {
    try{
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","it
175","sravya");
        String Username=jTextField_Username.getText();
        String
Password=jPasswordField_Password.getText();
        Statement stmt = con.createStatement();
        ResultSet rs=stmt.executeQuery("SELECT
USERNAME,PASSWORD FROM USERS WHERE USERNAME = "
+Username+ " AND PASSWORD = " +Password+ "'");
        int flag=0,temp=0;
        if(Username == "" || Password.equals(""))
        {
            temp=1;
        }

        while(rs.next())
        {
            flag=1;
            break;
        }

        if(temp==1)
        {

JOptionPane.showMessageDialog(this,"Please enter all details.");
        }
        else if(flag==0)
        {
            JOptionPane.showMessageDialog(this,"Incorrect
username or password!");
        }

        else
        {

```

```

        HomePage h = new HomePage(Username);
        h.show();
        dispose();
    }
    con.close();
}
catch(Exception e)
{
    JOptionPane.showMessageDialog(null, e);
}

}

private void jButton_GoBackActionPerformed(java.awt.event.ActionEvent evt) {

    MainOptionsScreen var=new MainOptionsScreen();
    var.show();
    dispose();
}

public static void main(String args[]) {

    try {
        for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Metal".equals(info.getName())) {

                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

        java.util.logging.Logger.getLogger(Login.class.get
tName()).log(java.util.logging.Level.SEVERE,
null, ex);
    }
    catch (InstantiationException ex) {

        java.util.logging.Logger.getLogger(Login.class.get
tName()).log(java.util.logging.Level.SEVERE,
null, ex);
    }
}

```

```

        }
        catch (IllegalAccessException ex) {

            java.util.logging.Logger.getLogger(Login.class.get
tName()).log(java.util.logging.Level.SEVERE,
null, ex);
        }
        catch (javax.swing.UnsupportedLookAndFeel
ex) {

            java.util.logging.Logger.getLogger(Login.class.get
tName()).log(java.util.logging.Level.SEVERE,
null, ex);
        }

        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Login().setVisible(true);
            }
        });
    }
}

private javax.swing.JButton jButton_GoBack;
private javax.swing.JButton jButton_Login;
private javax.swing.JLabel jLabel_Background;
private javax.swing.JLabel jLabel_Login;
private javax.swing.JLabel jLabel_Password;
private javax.swing.JLabel jLabel_Username;
private javax.swing.JPanel jPanel_Login;
private javax.swing.JPasswordField jPasswordField_Password;
private javax.swing.JTextField jTextField_Username;

}

```

7.2.4. Register.java

```

package booktap;

import java.sql.*;
import javax.swing.JOptionPane;

public class Register extends javax.swing.JFrame {
    Connection con = null;

```

```

PreparedStatement pstmt = null;
ResultSet rs = null;
String username;

public Register() {
    this.username = username;
    initComponents();
}

RegisterPanel = new javax.swing.JPanel();
Registerlabel = new javax.swing.JLabel();
UsernameLabel = new javax.swing.JLabel();
PasswordLabel = new javax.swing.JLabel();
UsernameTextField = new javax.swing.JTextField();
PasswordField = new javax.swing.JPasswordField();
jButton_GoBack = new javax.swing.JButton();
firstnameLabel = new javax.swing.JLabel();
lastnameLabel = new javax.swing.JLabel();
emaillabel = new javax.swing.JLabel();
LastNameTextField = new javax.swing.JTextField();
FirstNameTextField = new javax.swing.JTextField();
EmailTextField = new javax.swing.JTextField();
ReenterPassLabel = new javax.swing.JLabel();
ReenterPassTextField = new javax.swing.JPasswordField();
jButton_Confirm = new javax.swing.JButton();
BackgroundImageLabel = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setTitle("REGISTER");
setSize(new java.awt.Dimension(1000, 600));
getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

RegisterPanel.setBackground(new java.awt.Color(0,0,0,200));

Registerlabel.setBackground(new java.awt.Color(255, 200, 90));
Registerlabel.setFont(new java.awt.Font("Malgun Gothic", 1, 45)); // NOI18N
Registerlabel.setForeground(new java.awt.Color(255, 200, 90));
Registerlabel.setText("REGISTER");

UsernameLabel.setFont(new java.awt.Font("Malgun Gothic", 1, 18)); // NOI18N

```

```

        UsernameLabel.setForeground(new java.awt.Color(255, 200,
90));
        UsernameLabel.setText("Username ");

        PasswordLabel.setFont(new java.awt.Font("Malgun Gothic", 1,
18)); // NOI18N
        PasswordLabel.setForeground(new java.awt.Color(255, 200, 90));
        PasswordLabel.setText("Password ");

        UsernameTextField.setBackground(new java.awt.Color(255, 200,
90));
        UsernameTextField.setFont(new java.awt.Font("Malgun Gothic",
1, 14)); // NOI18N

        UsernameTextField.setBorder(javax.swing.BorderFactory.create
EmptyBorder(1, 5, 1, 1));
        UsernameTextField.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                UsernameTextFieldActionPerformed(evt);
            }
        });
    });

    PasswordTextField.setBackground(new java.awt.Color(255, 200,
90));
    PasswordTextField.setFont(new java.awt.Font("Malgun Gothic",
1, 14)); // NOI18N

    PasswordTextField.setBorder(javax.swing.BorderFactory.createE
mptyBorder(1, 5, 1, 1));
    PasswordTextField.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                PasswordTextFieldActionPerformed(evt);
            }
        });
    });

    jButton_GoBack.setBackground(new java.awt.Color(255, 182,
28));
    jButton_GoBack.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
    jButton_GoBack.setText("Go Back");
    jButton_GoBack.setBorder(null);

```

```

        jButton_GoBack.setFocusPainted(false);
        jButton_GoBack.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jButton_GoBackActionPerformed(evt);
            }
        });
    });

    firstnameLabel.setFont(new java.awt.Font("Malgun Gothic", 1,
18)); // NOI18N
    firstnameLabel.setForeground(new java.awt.Color(255, 200, 90));
    firstnameLabel.setText("First Name ");

    lastnameLabel.setFont(new java.awt.Font("Malgun Gothic", 1,
18)); // NOI18N
    lastnameLabel.setForeground(new java.awt.Color(255, 200, 90));
    lastnameLabel.setText("Last Name ");

    emaillabel.setFont(new java.awt.Font("Malgun Gothic", 1, 18)); // NOI18N
    emaillabel.setForeground(new java.awt.Color(255, 200, 90));
    emaillabel.setText("Email Address ");

    LastNameTextField.setBackground(new java.awt.Color(255, 200,
90));
    LastNameTextField.setFont(new java.awt.Font("Malgun Gothic",
1, 14)); // NOI18N

    LastNameTextField.setBorder(javax.swing.BorderFactory.create
EmptyBorder(1, 5, 1, 1));

    FirstNameTextField.setBackground(new java.awt.Color(255,
200, 90));
    FirstNameTextField.setFont(new java.awt.Font("Malgun Gothic",
1, 14)); // NOI18N

    FirstNameTextField.setBorder(javax.swing.BorderFactory.create
EmptyBorder(1, 5, 1, 1));
    FirstNameTextField.addActionListener(new
java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            FirstNameTextFieldActionPerformed(evt);
        }
    });

```

```

    });

    EmailTextField.setBackground(new java.awt.Color(255, 200,
90));
    EmailTextField.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N

    EmailTextField.setBorder(javax.swing.BorderFactory.createEmpt
yBorder(1, 5, 1, 1));

    ReenterPassLabel.setFont(new java.awt.Font("Malgun Gothic", 1,
18)); // NOI18N
    ReenterPassLabel.setForeground(new java.awt.Color(255, 200,
90));
    ReenterPassLabel.setText("Re-Enter Password ");

    ReenterPassTextField.setBackground(new java.awt.Color(255,
200, 90));
    ReenterPassTextField.setFont(new java.awt.Font("Malgun
Gothic", 1, 13)); // NOI18N

    ReenterPassTextField.setBorder(javax.swing.BorderFactory.creat
eEmptyBorder(1, 5, 1, 1));
    ReenterPassTextField.addActionListener(new
java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            ReenterPassTextFieldActionPerformed(evt);
        }
    });
}

jButton_Confirm.setBackground(new java.awt.Color(255, 182,
28));
jButton_Confirm.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
jButton_Confirm.setForeground(new java.awt.Color(43, 37, 56));
jButton_Confirm.setText("Confirm");
jButton_Confirm.setBorder(null);
jButton_Confirm.setFocusPainted(false);
jButton_Confirm.addActionListener(new
java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            jButton_ConfirmActionPerformed(evt);
        }
    });
}

```

```
});  
  
javax.swing.GroupLayout RegisterPanelLayout = new  
javax.swing.GroupLayout(RegisterPanel);  
RegisterPanel.setLayout(RegisterPanelLayout);  
RegisterPanelLayout.setHorizontalGroup(  
  
RegisterPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
RegisterPanelLayout.createSequentialGroup()  
.addGap(0, 0, Short.MAX_VALUE)  
.addComponent(Registerlabel)  
.addGap(232, 232, 232))  
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
RegisterPanelLayout.createSequentialGroup()  
.addGap(131, 131, 131),  
.addGroup(RegisterPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
.addComponent(UsernameLabel)  
.addComponent(lastnameLabel)  
.addComponent(PasswordLabel)  
.addComponent(ReenterPassLabel)  
.addComponent(emaiilabel)  
.addComponent(firstnameLabel))  
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 63, Short.MAX_VALUE)  
.addGroup(RegisterPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
.addComponent(FirstNameTextField,  
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE) 202,  
.addComponent(UsernameTextField,  
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE) 202,  
.addComponent(LastNameTextField,  
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE) 202,  
.addComponent(EmailTextField,  
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE) 202,  
.addComponent(PasswordField,  
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE) 202,
```

```

        .addComponent(ReenterPassTextField,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(125, 125, 125))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
RegisterPanelLayout.createSequentialGroup()
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(jButton_Confirm,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE) 93,
        .addGap(160, 160, 160)
        .addComponent(jButton_GoBack,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE) 105,
        .addGap(36, 36, 36))
    );
    RegisterPanelLayout.setVerticalGroup(

```

RegisterPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

        .addGroup(RegisterPanelLayout.createSequentialGroup()
        .addGap(32, 32, 32)
        .addComponent(Registerlabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE) 45,
        .addGap(36, 36, 36) 36)
        .addGroup(RegisterPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(UsernameLabel)
        .addComponent(UsernameTextField,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)) 25,
        .addGap(20, 20, 20)

```

```

        .addGroup(RegisterPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(FirstNameTextField,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE) 25,
        .addComponent(firstnameLabel))

        .addGroup(RegisterPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(RegisterPanelLayout.createSequentialGroup()

```

```

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
        .RELATED, javax.swing.GroupLayout.DEFAULT_SIZE,
        Short.MAX_VALUE)
        .addComponent(jButton_GoBack,
javax.swing.GroupLayout.PREFERRED_SIZE, 33,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(30, 30, 30))
        .addGroup(RegisterPanelLayout.createSequentialGroup()
        .addGap(20, 20, 20)

        .addGroup(RegisterPanelLayout.createParallelGroup(javax.swing
        .GroupLayout.Alignment.BASELINE)
        .addComponent(lastnameLabel,
javax.swing.GroupLayout.PREFERRED_SIZE, 20,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(LastNameTextField,
javax.swing.GroupLayout.PREFERRED_SIZE, 25,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(20, 20, 20)

        .addGroup(RegisterPanelLayout.createParallelGroup(javax.swing
        .GroupLayout.Alignment.LEADING)
        .addComponent(emaiilabel,
javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(EmailTextField,
javax.swing.GroupLayout.PREFERRED_SIZE, 25,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(20, 20, 20)

        .addGroup(RegisterPanelLayout.createParallelGroup(javax.swing
        .GroupLayout.Alignment.LEADING, false)
        .addComponent(PasswordLabel)
        .addGroup(RegisterPanelLayout.createSequentialGroup()
        .addComponent(PasswordField,
javax.swing.GroupLayout.DEFAULT_SIZE, 25, Short.MAX_VALUE)
        .addGap(1, 1, 1)))
        .addGap(20, 20, 20)

        .addGroup(RegisterPanelLayout.createParallelGroup(javax.swing
        .GroupLayout.Alignment.LEADING, false)
        .addComponent(ReenterPassLabel)
        .addGroup(RegisterPanelLayout.createSequentialGroup()

```

```

        .addComponent(ReenterPassTextField,
javax.swing.GroupLayout.DEFAULT_SIZE, 25, Short.MAX_VALUE)
        .addGap(1, 1, 1)))
        .addGap(31, 31, 31)
        .addComponent(jButton_Confirm,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(62, Short.MAX_VALUE))))
);
}

getContentPane().add(RegisterPanel, new
org.netbeans.lib.awtextra.AbsoluteConstraints(160, 50, 690, 500));

BackgroundImageLabel.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Login_Interests
images/LoginCoverImage.jpg"))); // NOI18N
getContentPane().add(BackgroundImageLabel, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, -1, -1));

setSize(new java.awt.Dimension(1014, 637));
setLocationRelativeTo(null);
}

private void
PasswordTextFieldActionPerformed(java.awt.event.ActionEvent evt) {

}

private void
jButton_GoBackActionPerformed(java.awt.event.ActionEvent evt) {

    MainOptionsScreen var=new MainOptionsScreen();
    var.show();
    dispose();
}

private void
FirstNameTextFieldActionPerformed(java.awt.event.ActionEvent evt) {

}

private void
ReenterPassTextFieldActionPerformed(java.awt.event.ActionEvent evt) {

}

```

```

        private void
        UsernameTextFieldActionPerformed(java.awt.event.ActionEvent evt) {

    }

        private void
        jButton_ConfirmActionPerformed(java.awt.event.ActionEvent evt) {
            int flag = 0;
            String username = UsernameTextField.getText();
            String firstname = FirstNameTextField.getText();
            String lastname = LastNameTextField.getText();
            String email = EmailTextField.getText();
            String password = PasswordTextField.getText();
            String repass = ReenterPassTextField.getText();
            if(username.isEmpty() || firstname.isEmpty() || lastname.isEmpty()
            || email.isEmpty() || password.isEmpty() || repass.isEmpty()){
                JOptionPane.showMessageDialog(this, "Incomplete
details. Please enter details again.");
                UsernameTextField.setText("");
                FirstNameTextField.setText("");
                LastNameTextField.setText("");
                EmailTextField.setText("");
                PasswordTextField.setText("");
                ReenterPassTextField.setText("");
            }
            else{
                if(password.equals(repass)){
                    try{
                        Class.forName("oracle.jdbc.driver.OracleDriver");
                        Connection con =
                        DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","it
175","sravya");
                        PreparedStatement pstmt =
                        con.prepareStatement("INSERT INTO USERS VALUES(?,?,?,?,?)");
                        Statement stmt1 = con.createStatement();
                        ResultSet
                        rs=stmt1.executeQuery("SELECT USERNAME FROM USERS WHERE
USERNAME = '" + username + "'");
                        while(rs.next())
                        {
                            flag = 1;
                        }
                    }
                }
            }
        }
    }
}

```

```

                if(flag == 1){
                    JOptionPane.showMessageDialog(this,"Username
already exists. Please enter details again.");
                    UsernameTextField.setText("");
                    FirstNameTextField.setText("");
                    LastNameTextField.setText("");
                    EmailTextField.setText("");
                    PasswordTextField.setText("");
                    ReenterPassTextField.setText("");
                }
            } else{
                pstmt.setString(1, username);
                pstmt.setString(2, firstname);
                pstmt.setString(3, lastname);
                pstmt.setString(4, email);
                pstmt.setString(5, password);
                ResultSet rs1 = pstmt.executeQuery();
                JOptionPane.showMessageDialog(this, "Successfully registered!");
            }
        } catch(Exception e){
            JOptionPane.showMessageDialog(null,e);
        }
    } else{
        JOptionPane.showMessageDialog(this,
        "Passwords do not match. Please enter details again.");
    }
}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
        javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Metal".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

```

```

        java.util.logging.Logger.getLogger(Login.class.get
tName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (InstantiationException ex) {

        java.util.logging.Logger.getLogger(Login.class.get
tName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (IllegalAccessException ex) {

        java.util.logging.Logger.getLogger(Login.class.get
tName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException
ex) {

        java.util.logging.Logger.getLogger(Login.class.get
tName()).log(java.util.logging.Level.SEVERE,
null, ex);
    }

    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new Register().setVisible(true);
        }
    });
}

private javax.swing.JLabel BackgoundImageLabel;
private javax.swing.JTextField EmailTextField;
private javax.swing.JTextField FirstNameTextField;
private javax.swing.JTextField LastNameTextField;
private javax.swing.JLabel PasswordLabel;
private javax.swing.JPasswordField PasswordTextField;
private javax.swing.JLabel ReenterPassLabel;
private javax.swing.JPasswordField ReenterPassTextField;
private javax.swing.JPanel RegisterPanel;
private javax.swing.JLabel Registerlabel;
private javax.swing.JLabel UsernameLabel;
private javax.swing.JTextField UserNameTextField;
private javax.swing.JLabel emaillabel;
private javax.swing.JLabel firstnameLabel;
private javax.swing.JButton jButton_Confirm;
private javax.swing.JButton jButton_GoBack;

```

```
    private javax.swing.JLabel lastnameLabel;  
}
```

7.2.5. Interests.java

```
package booktap;  
import java.sql.*;  
  
public class Interests extends javax.swing.JFrame {  
  
    public Interests(String Username) {  
        initComponents();  
        this.uname = Username;  
    }  
  
    private void initComponents() {  
  
        jLabel15 = new javax.swing.JLabel();  
        jCheckBox2 = new javax.swing.JCheckBox();  
        scrollpane = new javax.swing.JScrollPane();  
        outerlayeredpane = new javax.swing.JLayeredPane();  
        outerpanel = new javax.swing.JPanel();  
        innerlayeredpane = new javax.swing.JLayeredPane();  
        innerpanel = new javax.swing.JPanel();  
        Headinglabel = new javax.swing.JLabel();  
        Captionlabel = new javax.swing.JLabel();  
        saveandnextbutton = new javax.swing.JButton();  
        mysteryImagelabel = new javax.swing.JLabel();  
        mysterycb = new javax.swing.JCheckBox();  
        mysterylabel = new javax.swing.JLabel();  
        romanceimagelabel = new javax.swing.JLabel();  
        romancecb = new javax.swing.JCheckBox();  
        romancelabel = new javax.swing.JLabel();  
        nonfictioncb = new javax.swing.JCheckBox();  
        nonfictionimagelabel = new javax.swing.JLabel();  
        nonfictionlabel = new javax.swing.JLabel();  
        Adventurecb = new javax.swing.JCheckBox();  
        Adventureimagelabel = new javax.swing.JLabel();  
        poetryimagelabel = new javax.swing.JLabel();  
        horrorcb = new javax.swing.JCheckBox();  
        horrorlabel = new javax.swing.JLabel();  
        horrorimagelabel = new javax.swing.JLabel();  
        Adventurelabel = new javax.swing.JLabel();  
        fictionlabel = new javax.swing.JLabel();
```

```

fictioncb = new javax.swing.JCheckBox();
fictionimagelabel = new javax.swing.JLabel();
poetrylabel = new javax.swing.JLabel();
poetrycb = new javax.swing.JCheckBox();
childrencb = new javax.swing.JCheckBox();
childrenlabel = new javax.swing.JLabel();
classicsimagelabel = new javax.swing.JLabel();
fantasycb = new javax.swing.JCheckBox();
fantasylabel = new javax.swing.JLabel();
fantasyimagelabel = new javax.swing.JLabel();
classicscb = new javax.swing.JCheckBox();
classicslabel = new javax.swing.JLabel();
childrenimagelabel = new javax.swing.JLabel();

jLabel15.setFont(new java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
jLabel15.setForeground(new java.awt.Color(255, 255, 255));
jLabel15.setText("Adventure");

jCheckBox2.setBackground(new java.awt.Color(43, 37, 56));
jCheckBox2.setForeground(new java.awt.Color(43, 37, 56));

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setTitle("INTERESTS");
setPreferredSize(new java.awt.Dimension(1000, 600));
setSize(new java.awt.Dimension(1000, 600));

scrollpane.setPreferredSize(new java.awt.Dimension(1300, 1158));

outerlayeredpane.setPreferredSize(new
java.awt.Dimension(1290, 1156));

outerpanel.setBackground(new java.awt.Color(43, 37, 56));

innerpanel.setBackground(new java.awt.Color(17, 94, 111));
innerpanel.setPreferredSize(new java.awt.Dimension(884, 496));

Headinglabel.setFont(new java.awt.Font("Malgun Gothic", 0, 58)); // NOI18N
Headinglabel.setForeground(new java.awt.Color(255, 255, 255));
Headinglabel.setText("Choose Interests");

```

```

        Captionlabel.setFont(new java.awt.Font("Malgun Gothic", 1, 18));
// NOI18N
        Captionlabel.setForeground(new java.awt.Color(255, 255, 255));
        Captionlabel.setText("Select all the genres that you like");

        saveandnextbutton.setBackground(new java.awt.Color(255, 182,
28));
        saveandnextbutton.setFont(new java.awt.Font("Malgun Gothic",
1, 16)); // NOI18N
        saveandnextbutton.setForeground(new java.awt.Color(43, 37,
56));
        saveandnextbutton.setText("Save and Next");
        saveandnextbutton.setBorder(null);
        saveandnextbutton.setFocusPainted(false);
        saveandnextbutton.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                saveandnextbuttonActionPerformed(evt);
            }
        });
    });

    mysteryImagelabel.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Login_Interests
images/Mystery.PNG"))); // NOI18N

    mysterycb.setBackground(new java.awt.Color(43, 37, 56));
    mysterycb.setForeground(new java.awt.Color(43, 37, 56));

    mysterylabel.setFont(new java.awt.Font("Malgun  Gothic", 1,
16)); // NOI18N
    mysterylabel.setForeground(new java.awt.Color(255, 255, 255));
    mysterylabel.setText("Mystery");

    romanceimagelabel.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Login_Interests
images/Romance.jpg"))); // NOI18N

    romancecb.setBackground(new java.awt.Color(43, 37, 56));
    romancecb.setForeground(new java.awt.Color(43, 37, 56));

    romancelabel.setFont(new java.awt.Font("Malgun  Gothic", 1,
16)); // NOI18N
    romancelabel.setForeground(new java.awt.Color(255, 255, 255));
    romancelabel.setText("Romance");

```

```

nonfictioncb.setBackground(new java.awt.Color(43, 37, 56));
nonfictioncb.setForeground(new java.awt.Color(43, 37, 56));

    nonfictionimagelabel.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Login_Interests
images/Non-fiction.jpg"))); // NOI18N

    nonfictionlabel.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
    nonfictionlabel.setForeground(new java.awt.Color(255, 255,
255));
    nonfictionlabel.setText("Non-fiction");

Adventurecb.setBackground(new java.awt.Color(43, 37, 56));
Adventurecb.setForeground(new java.awt.Color(43, 37, 56));

    Adventureimagelabel.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Login_Interests
images/Adventure.jpg"))); // NOI18N
    Adventureimagelabel.setToolTipText("");

poetryimagelabel.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Login_Interests
images/Poetry.jpg"))); // NOI18N

horrorcb.setBackground(new java.awt.Color(43, 37, 56));
horrorcb.setForeground(new java.awt.Color(43, 37, 56));

horrorlabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16));
// NOI18N
horrorlabel.setForeground(new java.awt.Color(255, 255, 255));
horrorlabel.setText("Horror");

horrorimagelabel.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Login_Interests
images/Horror.PNG"))); // NOI18N

    Adventurelabel.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
    Adventurelabel.setForeground(new java.awt.Color(255, 255,
255));
    Adventurelabel.setText("Adventure");

```

```

fictionlabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16));
// NOI18N
fictionlabel.setForeground(new java.awt.Color(255, 255, 255));

fictionlabel.setHorizontalAlignment(javax.swing.SwingConstants.LEFT);
fictionlabel.setText("Fiction");

fictioncb.setBackground(new java.awt.Color(43, 37, 56));
fictioncb.setForeground(new java.awt.Color(43, 37, 56));

fictionimagelabel.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Login_Interests
images/Fiction.jpg"))); // NOI18N

poetrylabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16));
// NOI18N
poetrylabel.setForeground(new java.awt.Color(255, 255, 255));
poetrylabel.setText("Poetry");

poetrycb.setBackground(new java.awt.Color(43, 37, 56));
poetrycb.setForeground(new java.awt.Color(43, 37, 56));

childrencb.setBackground(new java.awt.Color(43, 37, 56));
childrencb.setForeground(new java.awt.Color(43, 37, 56));

childrenlabel.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
childrenlabel.setForeground(new java.awt.Color(255, 255, 255));
childrenlabel.setText("Children");

classicsimagelabel.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Login_Interests
images/Classics.jpg"))); // NOI18N

fantasycb.setBackground(new java.awt.Color(43, 37, 56));
fantasycb.setForeground(new java.awt.Color(43, 37, 56));

fantasylabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16));
// NOI18N
fantasylabel.setForeground(new java.awt.Color(255, 255, 255));
fantasylabel.setText("Fantasy");

fantasyimagelabel.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Login_Interests
images/Fantasy.jpg"))); // NOI18N

```

```

classicscb.setBackground(new java.awt.Color(43, 37, 56));
classicscb.setForeground(new java.awt.Color(43, 37, 56));

classicslabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16));
// NOI18N
classicslabel.setForeground(new java.awt.Color(255, 255, 255));
classicslabel.setText("Classics");

childrenimagelabel.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Login_Interests
images/Children.jpg"))); // NOI18N

javax.swing.GroupLayout innerpanelLayout = new
javax.swing.GroupLayout(innerpanel);
innerpanel.setLayout(innerpanelLayout);
innerpanelLayout.setHorizontalGroup(
innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.
Alignment.LEADING)
.addGroup(innerpanelLayout.createSequentialGroup()
.addContainerGap()

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.Gr
oupLayout.Alignment.LEADING)
.addGroup(innerpanelLayout.createSequentialGroup()

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.Gr
oupLayout.Alignment.TRAILING)
.addGroup(innerpanelLayout.createSequentialGroup()

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.Gr
oupLayout.Alignment.LEADING)
.addComponent(mysteryImagelabel)
.addGroup(innerpanelLayout.createSequentialGroup()
.addGap(107, 107, 107)
.addComponent(mysterycb)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
.UNRELATED)
.addComponent(mysterylabel,
javax.swing.GroupLayout.PREFERRED_SIZE, 71,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addGroup(innerpanelLayout.createSequentialGroup()
.addGap(116, 116, 116)

```

```

.addComponent(nonfictioncb)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
.UNRELATED)
.addComponent(nonfictionlabel,
javax.swing.GroupLayout.PREFERRED_SIZE, 102,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addComponent(nonfictionimagelabel,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 350,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(6, 6, 6)

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(innerpanelLayout.createSequentialGroup()
.addGap(1, 1, 1)
.addComponent(fictionimagelabel,
javax.swing.GroupLayout.PREFERRED_SIZE, 253,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(18, 18, 18)
.addComponent(childrenimagelabel))
.addGroup(innerpanelLayout.createSequentialGroup()

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(innerpanelLayout.createSequentialGroup()
.addGap(69, 69, 69)
.addComponent(Adventurecb)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addComponent(Adventurelabel))
.addComponent(horrorimagelabel,
javax.swing.GroupLayout.PREFERRED_SIZE, 266,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(Adventureimagelabel))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                  .addComponent(classicsimagelabel,
                               javax.swing.GroupLayout.DEFAULT_SIZE,
                               javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                  .addComponent(poetryimagelabel,
                               javax.swing.GroupLayout.DEFAULT_SIZE,
                               javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                  .addComponent(fantasyimagelabel,
                               javax.swing.GroupLayout.DEFAULT_SIZE,
                               javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
                  innerpanelLayout.createSequentialGroup()
                  .addComponent(poetrycb)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(poetrylabel,
                     javax.swing.GroupLayout.PREFERRED_SIZE,
                     javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(97, 97, 97))))))
        .addGroup(innerpanelLayout.createSequentialGroup()
                  .addComponent(Captionlabel)
                  .addGap(293, 293, 293)))

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
                        Short.MAX_VALUE))
        .addGroup(innerpanelLayout.createSequentialGroup()

        .addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                  .addComponent(romanceimagelabel,
                               javax.swing.GroupLayout.PREFERRED_SIZE,
                               javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addGroup(innerpanelLayout.createSequentialGroup()
                            .addComponent(romanceccb)
                            .addGap(120, 120, 120)
                            .addComponent(romanceccb)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(romancelabel,
                     javax.swing.GroupLayout.PREFERRED_SIZE,
                     javax.swing.GroupLayout.PREFERRED_SIZE)))

```

59, 363, 93,

```

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
innerpanelLayout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
innerpanelLayout.createSequentialGroup()
.addComponent(classicscb)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addComponent(classicslabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(92, 92, 92))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
innerpanelLayout.createSequentialGroup()
.addComponent(fantasycb)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addComponent(fantasylabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(93, 93, 93))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
innerpanelLayout.createSequentialGroup()
.addComponent(childrencb)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addComponent(childrenlabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(93, 93, 93))

```

73,

67,

73,

```

.addGap(94, 94, 94)))
.addGroup(innerpanelLayout.createSequentialGroup()

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(innerpanelLayout.createSequentialGroup()
.addGap(81, 81, 81)
.addComponent(fictioncb)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addComponent(fictionlabel))

.addGroup(innerpanelLayout.createSequentialGroup()
.addGap(72, 72, 72)
.addComponent(horrorcb)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addComponent(horrorlabel,
javax.swing.GroupLayout.PREFERRED_SIZE, 99,
javax.swing.GroupLayout.PREFERRED_SIZE)))
.addContainerGap()))
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
innerpanelLayout.createSequentialGroup()
.addGap(0, 0, Short.MAX_VALUE)
.addComponent(Headinglabel)
.addGap(221, 221, 221)))
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
innerpanelLayout.createSequentialGroup()
.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
.addComponent(saveandnextbutton,
javax.swing.GroupLayout.PREFERRED_SIZE, 154,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(360, 360, 360))
);
innerpanelLayout.setVerticalGroup(
innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(innerpanelLayout.createSequentialGroup()

```

```

.addComponent(Headinglabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE) 90,

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
.RELATED)
.addComponent(Captionlabel,
javax.swing.GroupLayout.PREFERRED_SIZE, 25,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(innerpanelLayout.createSequentialGroup()
.addGap(62, 62, 62)
.addComponent(mysteryImagelabel,
javax.swing.GroupLayout.PREFERRED_SIZE, 164,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
.RELATED)

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(mysterylabel)
.addComponent(mysterycb))
.addGap(18, 18, 18)
.addComponent(nonfictionimagelabel)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
.UNRELATED)

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(nonfictionlabel)
.addComponent(nonfictioncb))
.addGap(18, 18, 18)
.addComponent(romanceimagelabel,
javax.swing.GroupLayout.PREFERRED_SIZE, 294,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
.UNRELATED)

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```
.addComponent(romancecb)
.addComponent(romancelabel)))
.addGroup(innerpanelLayout.createSequentialGroup()

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(innerpanelLayout.createSequentialGroup()
.addGap(66, 66, 66)
.addComponent(poetryimagelabel)
.addGap(7, 7, 7)

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(poetrycb)
.addComponent(poetrylabel)
.addGap(18, 18, 18)
.addComponent(fantasyimagelabel)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(fantasylabel)
.addComponent(fantasycb))
.addGap(17, 17, 17)
.addComponent(classicsimagelabel)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(classicslabel)
.addComponent(classicscb))
.addGap(29, 29, 29)
.addComponent(childrenimagelabel))
.addGroup(innerpanelLayout.createSequentialGroup()
.addGap(49, 49, 49)
.addComponent(Adventureimagelabel)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
.addComponent(Adventurecb)
.addComponent(Adventurelabel))
.addGap(20, 20, 20)
.addComponent(horrorimagelabel)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
.addComponent(horrorcb)
.addComponent(horrorlabel))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addComponent(fictionimagelabel)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(fictionlabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(fictioncb)))))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(innerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
.addComponent(childrenlabel)
.addComponent(childrencb)))))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
.addComponent(saveandnextbutton,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(65, 65, 65))

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23,

47,

```
    );  
  
    innerlayeredpane.setLayer(innerpanel,  
        javax.swing.JLayeredPane.DEFAULT_LAYER);  
  
    javax.swing.GroupLayout innerlayeredpaneLayout = new  
    javax.swing.GroupLayout(innerlayeredpane);  
    innerlayeredpane.setLayout(innerlayeredpaneLayout);  
    innerlayeredpaneLayout.setHorizontalGroup(  
  
        innerlayeredpaneLayout.createParallelGroup(javax.swing.GroupLayout.  
            Alignment.LEADING)  
        .addGroup(innerlayeredpaneLayout.createSequentialGroup()  
            .addComponent(innerpanel,  
                javax.swing.GroupLayout.PREFERRED_SIZE,  
                javax.swing.GroupLayout.PREFERRED_SIZE)  
            .addGap(0, 148, Short.MAX_VALUE))  
    );  
    innerlayeredpaneLayout.setVerticalGroup(  
  
        innerlayeredpaneLayout.createParallelGroup(javax.swing.GroupLayout.  
            Alignment.LEADING)  
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
            innerlayeredpaneLayout.createSequentialGroup()  
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,  
                    Short.MAX_VALUE)  
                .addComponent(innerpanel,  
                    javax.swing.GroupLayout.PREFERRED_SIZE,  
                    javax.swing.GroupLayout.PREFERRED_SIZE)  
                .addContainerGap())  
    );  
  
    javax.swing.GroupLayout outerpanelLayout = new  
    javax.swing.GroupLayout(outerpanel);  
    outerpanel.setLayout(outerpanelLayout);  
    outerpanelLayout.setHorizontalGroup(  
  
        outerpanelLayout.createParallelGroup(javax.swing.GroupLayout.  
            Alignment.LEADING)  
        .addGroup(outerpanelLayout.createSequentialGroup()  
            .addGap(15, 15, 15)  
            .addComponent(innerlayeredpane,  
                javax.swing.GroupLayout.PREFERRED_SIZE,  
                javax.swing.GroupLayout.DEFAULT_SIZE,  
                javax.swing.GroupLayout.PREFERRED_SIZE))
```

```

    .addContainerGap(192, Short.MAX_VALUE))
);
outerpanelLayout.setVerticalGroup(
    outerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(outerpanelLayout.createSequentialGroup()
        .addGap(30, 30, 30)
        .addComponent(innerlayeredpane,
            javax.swing.GroupLayout.PREFERRED_SIZE, 1100,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(26, Short.MAX_VALUE))
);
}

outerlayeredpane.setLayer(outerpanel,
    javax.swing.JLayeredPane.DEFAULT_LAYER);

javax.swing.GroupLayout outerlayeredpaneLayout = new
    javax.swing.GroupLayout(outerlayeredpane);
    outerlayeredpane.setLayout(outerlayeredpaneLayout);
    outerlayeredpaneLayout.setHorizontalGroup(
        outerlayeredpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(outerpanel,
            javax.swing.GroupLayout.DEFAULT_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
    outerlayeredpaneLayout.setVerticalGroup(
        outerlayeredpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(outerpanel,
            javax.swing.GroupLayout.DEFAULT_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
}

scrollpane.setViewportView(outerlayeredpane);

javax.swing.GroupLayout layout = new
    javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(

```

```

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
.addComponent(scrollpane,
javax.swing.GroupLayout.DEFAULT_SIZE, 1006, Short.MAX_VALUE)
);
layout.setVerticalGroup(
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
.addComponent(scrollpane,
javax.swing.GroupLayout.DEFAULT_SIZE, 1175, Short.MAX_VALUE)
);

pack();
 setLocationRelativeTo(null);
}

private void
saveandnextbuttonActionPerformed(java.awt.event.ActionEvent evt) {

String array[];
array=new String[10];

if(mysterycb.isSelected())
{
    array[0]="Mystery";
}
else
{
    array[0]=";";
}

if(Adventurecb.isSelected())
{
    array[1]="Adventure";
}
else
{
    array[1]=";";
}

if(poetrycb.isSelected())
{
    array[2]="Poetry";
}

```

```

        }
    else
    {
        array[2] = ";";
    }

    if(nonfictioncb.isSelected())
    {
        array[3] = "Non-Fiction";
    }
    else
    {
        array[3] = ";";
    }

    if(horrorcb.isSelected())
    {
        array[4] = "Horror";
    }
    else
    {
        array[4] = ";";
    }

    if(poetrycb.isSelected())
    {
        array[5] = "Poetry";
    }
    else
    {
        array[5] = ";";
    }

    if(fantasycb.isSelected())
    {
        array[6] = "Fantasy";
    }
    else
    {
        array[6] = ";";
    }

    if(romancecb.isSelected())
    {
        array[7] = "Romance";
    }

```

```

        }
        else
        {
            array[7] = ",";
        }

        if(fictioncb.isSelected())
        {
            array[8] = "Fiction";
        }
        else
        {
            array[8] = ",";
        }

        if(childrencb.isSelected())
        {
            array[9] = "Children";
        }
        else
        {
            array[9] = ",";
        }

    try {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con =
        DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","it1
75","sravya");
        for (int j = 0; j < 10; j++) {
            if (array[j] != ",") {

                String query = "INSERT INTO
LIKEDGENRES (USERNAME,INTERESTS) " + " values (?, ?)";
                PreparedStatement pst =
con.prepareStatement(query);
                pst.setString(1, this.uname);
                pst.setString(2, array[j]);
                pst.execute();

            }
        }
        con.close();
    }
    catch (Exception exc) {

```

```

        System.out.println(exc);
    }

    HomePage hp=new HomePage(this.uname);
    hp.show();
    dispose();
}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Metal".equals(info.getName())) {

                javax.swing.UIManager.setLookAndFeel(i
                    nfo.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

        java.util.logging.Logger.getLogger(Interests.class.getNam
            e()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

        java.util.logging.Logger.getLogger(Interests.class.getNam
            e()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

        java.util.logging.Logger.getLogger(Interests.class.getNam
            e()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

        java.util.logging.Logger.getLogger(Interests.class.getNam
            e()).log(java.util.logging.Level.SEVERE, null, ex);
    }
}

private javax.swing.JCheckBox Adventurecb;
private javax.swing.JLabel Adventureimagelabel;
private javax.swing.JLabel Adventurelabel;
private javax.swing.JLabel Captionlabel;
private javax.swing.JLabel Headinglabel;

```

```

private javax.swing.JCheckBox childrencb;
private javax.swing.JLabel childrenimagelabel;
private javax.swing.JLabel childrenlabel;
private javax.swing.JCheckBox classicscb;
private javax.swing.JLabel classicsimagelabel;
private javax.swing.JLabel classicslabel;
private javax.swing.JCheckBox fantasycb;
private javax.swing.JLabel fantasyimagelabel;
private javax.swing.JLabel fantasylabel;
private javax.swing.JCheckBox fictioncb;
private javax.swing.JLabel fictionimagelabel;
private javax.swing.JLabel fictionlabel;
private javax.swing.JCheckBox horrorcb;
private javax.swing.JLabel horrorimagelabel;
private javax.swing.JLabel horrorlabel;
private javax.swing.JLayeredPane innerlayeredpane;
private javax.swing.JPanel innerpanel;
private javax.swing.JCheckBox jCheckBox2;
private javax.swing.JLabel jLabel15;
private javax.swing.JLabel mysteryImagelabel;
private javax.swing.JCheckBox mysterycb;
private javax.swing.JLabel mysterylabel;
private javax.swing.JCheckBox nonfictioncb;
private javax.swing.JLabel nonfictionimagelabel;
private javax.swing.JLabel nonfictionlabel;
private javax.swing.JLayeredPane outerlayeredpane;
private javax.swing.JPanel outerpanel;
private javax.swing.JCheckBox poetrycb;
private javax.swing.JLabel poetryimagelabel;
private javax.swing.JLabel poetrylabel;
private javax.swing.JCheckBox romancecb;
private javax.swing.JLabel romanceimagelabel;
private javax.swing.JLabel romancelabel;
private javax.swing.JButton saveandnextbutton;
private javax.swing.JScrollPane scrollpane;
}

}

```

7.2.6. HomePage.java

```

package booktap;

public class HomePage extends javax.swing.JFrame {

    String username;
    public HomePage(String u) {

```

```

        this.username = u;
        initComponents();
    }

private void initComponents() {

    jPanel_Main = new javax.swing.JPanel();
    jPanel_Sub = new javax.swing.JPanel();
    jScrollPane_Main = new javax.swing.JScrollPane();
    jPanel_Information = new javax.swing.JPanel();
    jScrollPane_TA = new javax.swing.JScrollPane();
    jTextArea_Introduction = new javax.swing.JTextArea();
    jLabel1_Image = new javax.swing.JLabel();
    jLabel1_Genres = new javax.swing.JLabel();
    jPanel_Genres = new javax.swing.JPanel();
    jPanel_Adventure = new javax.swing.JPanel();
    advLabel = new javax.swing.JLabel();
    advImage = new javax.swing.JLabel();
    jPanel_Children = new javax.swing.JPanel();
    childrenLabel = new javax.swing.JLabel();
    childrenImage = new javax.swing.JLabel();
    jPanel_Classics = new javax.swing.JPanel();
    classicsLabel = new javax.swing.JLabel();
    classicsImage = new javax.swing.JLabel();
    jPanel_NonFiction = new javax.swing.JPanel();
    nfLabel = new javax.swing.JLabel();
    nfImage = new javax.swing.JLabel();
    jPanel_Fantasy = new javax.swing.JPanel();
    fantasyLabel = new javax.swing.JLabel();
    fantasyImage = new javax.swing.JLabel();
    jPanel_Fiction = new javax.swing.JPanel();
    fictionLabel = new javax.swing.JLabel();
    fictionImage = new javax.swing.JLabel();
    jPanel_Horror = new javax.swing.JPanel();
    horrorLabel = new javax.swing.JLabel();
    horrorImage = new javax.swing.JLabel();
    jPanel_Romance = new javax.swing.JPanel();
    romLabel = new javax.swing.JLabel();
    romImage = new javax.swing.JLabel();
    jPanel_Mystery = new javax.swing.JPanel();
    mysLabel = new javax.swing.JLabel();
    mysImage = new javax.swing.JLabel();
    jPanel_Poetry = new javax.swing.JPanel();
    poetryLabel = new javax.swing.JLabel();
    poetryImage = new javax.swing.JLabel();
}

```

```

TopNav = new javax.swing.JPanel();
jButton_Home = new javax.swing.JButton();
jButton_Books = new javax.swing.JButton();
jButton_Posts = new javax.swing.JButton();
jButton_Trending = new javax.swing.JButton();
jLabel_Welcome = new javax.swing.JLabel();
jButton_Settings = new javax.swing.JButton();
jButton_Profile = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setTitle("HOME");
setSize(new java.awt.Dimension(1000, 600));

jPanel_Main.setPreferredSize(new java.awt.Dimension(1000, 600));

jScrollPane_Main.setPreferredSize(new java.awt.Dimension(1000, 600));

jPanel_Information.setBackground(new java.awt.Color(43, 37, 56));

jTextArea_Introduction.setEditable(false);
jTextArea_Introduction.setBackground(new java.awt.Color(43, 37, 56));
jTextArea_Introduction.setColumns(20);
jTextArea_Introduction.setFont(new java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
jTextArea_Introduction.setForeground(new java.awt.Color(255, 255, 255));
jTextArea_Introduction.setLineWrap(true);
jTextArea_Introduction.setRows(5);
jTextArea_Introduction.setText("BookTap is a community for book lovers to come together and share their ideas and thoughts. It is THE application for bibliophiles. You have thousands of books at touch of your finger and can see what the rest of the community is thinking about a book. Some awesome features you can explore are: Posting: You can post about your favorite books and check out other posts as well! Books: If you want to view information regarding a book, head on over to the Books tab! Trending: Just like songs, we have compiled the top trending books in every genre.");
jTextArea_Introduction.setWrapStyleWord(true);
jTextArea_Introduction.setBorder(null);

```

```

jScrollPane_TA.setViewportView(jTextArea_Introduction);

jLabel_Image.setHorizontalAlignment(javax.swing.SwingConstants_CONSTANTS.CENTER);
jLabel_Image.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Homepage_images/HomePageMainImage.PNG"))); // NOI18N

jLabel_Genres.setFont(new java.awt.Font("Malgun Gothic", 1, 24)); // NOI18N
jLabel_Genres.setForeground(new java.awt.Color(255, 255, 255));
jLabel_Genres.setText("Available Genres...");

jPanel_Genres.setBackground(new java.awt.Color(17, 94, 111));

jPanel_Adventure.setBackground(new java.awt.Color(255, 255, 255));

jPanel_Adventure.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

advLabel.setBackground(new java.awt.Color(255, 255, 255));
advLabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
advLabel.setForeground(new java.awt.Color(43, 37, 56));

advLabel.setHorizontalAlignment(javax.swing.SwingConstants_CONSTANTS.CENTER);
advLabel.setText("Adventure");
advLabel.setOpaque(true);

advImage.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Homepage_images/Adventure.PNG"))); // NOI18N

javax.swing.GroupLayout jPanel_AdventureLayout = new javax.swing.GroupLayout(jPanel_Adventure);
jPanel_Adventure.setLayout(jPanel_AdventureLayout);
jPanel_AdventureLayout.setHorizontalGroup(
    jPanel_AdventureLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
)

```

```

        .addComponent(advLabel,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(advImage)
);
jPanel_AdventureLayout.setVerticalGroup(
jPanel_AdventureLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel_AdventureLayout.createSequentialGroup()
.addComponent(advImage,
javax.swing.GroupLayout.PREFERRED_SIZE,           107,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponentPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
.RELATED)
.addComponent(advLabel,
javax.swing.GroupLayout.PREFERRED_SIZE,           30,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
);

jPanel_Children.setBackground(new java.awt.Color(255, 255,
255));

jPanel_Children.setBorder(javax.swing.BorderFactory.createLine
Border(new java.awt.Color(0, 0, 0)));

childrenLabel.setBackground(new java.awt.Color(255, 255,
255));
childrenLabel.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
childrenLabel.setForeground(new java.awt.Color(43, 37, 56));

childrenLabel.setHorizontalAlignment(javax.swing.SwingConstantsConsta
nts.CENTER);
childrenLabel.setText("Children");

childrenImage.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Homepage_images/Chil
dren.PNG"))); // NOI18N

```

```

        javax.swing.GroupLayout jPanel_ChildrenLayout = new
        javax.swing.GroupLayout(jPanel_Children);
        jPanel_Children.setLayout(jPanel_ChildrenLayout);
        jPanel_ChildrenLayout.setHorizontalGroup(
            jPanel_ChildrenLayout.createParallelGroup(javax.swing.GroupLayout.
                layout.Alignment.LEADING)
            .addComponent(childrenLabel,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(childrenImage,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );
        jPanel_ChildrenLayout.setVerticalGroup(
            jPanel_ChildrenLayout.createParallelGroup(javax.swing.GroupLayout.
                layout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
                jPanel_ChildrenLayout.createSequentialGroup()
                    .addComponent(childrenImage,
                        javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.PREFERRED_SIZE, Short.MAX_VALUE)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.
                        RELATED)
                    .addComponent(childrenLabel,
                        javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.PREFERRED_SIZE))
        );
    }

    jPanel_Classics.setBackground(new java.awt.Color(255, 255,
        255));
    jPanel_Classics.setBorder(javax.swing.BorderFactory.createLine
        Border(new java.awt.Color(0, 0, 0)));
    classicsLabel.setBackground(new java.awt.Color(255, 255, 255));
    classicsLabel.setFont(new java.awt.Font("Malgun Gothic", 1,
        16)); // NOI18N
    classicsLabel.setForeground(new java.awt.Color(43, 37, 56));
    classicsLabel.setHorizontalAlignment(javax.swing.SwingConstantsConsta
        nts.CENTER);
    classicsLabel.setText("Classics");

```

```
    classicsImage.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Homepage_images/Clas
sics.PNG"))); // NOI18N

        javax.swing.GroupLayout jPanel_ClassicsLayout = new
javax.swing.GroupLayout(jPanel_Classics);
        jPanel_Classics.setLayout(jPanel_ClassicsLayout);
        jPanel_ClassicsLayout.setHorizontalGroup(
            jPanel_ClassicsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel_ClassicsLayout.createSequentialGroup()
                    .addComponent(classicsLabel,
                        javax.swing.GroupLayout.DEFAULT_SIZE,
                        javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(classicsImage,
                        javax.swing.GroupLayout.DEFAULT_SIZE,
                        javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                );
        jPanel_ClassicsLayout.setVerticalGroup(
            jPanel_ClassicsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel_ClassicsLayout.createSequentialGroup()
                    .addComponent(classicsImage,
                        javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(107, 107, 107)
                    .addComponent(classicsLabel,
                        javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(jPanel_ClassicsLayout.createSequentialGroup()
                    .addGap(30, 30, 30)
                    .addComponent(classicsLabel,
                        javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.PREFERRED_SIZE)))
        );
    }

    jPanel_NonFiction.setBackground(new java.awt.Color(255, 255,
255));

    jPanel_NonFiction.setBorder(javax.swing.BorderFactory.createLi
neBorder(new java.awt.Color(0, 0, 0)));

    nfLabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
    nfLabel.setForeground(new java.awt.Color(43, 37, 56));
```

```
nfLabel.setHorizontalAlignment(javax.swing.SwingConstantsConstants.C
ENTER);
nfLabel.setText("Non-Fiction");

nfImage.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Homepage_images/Non
-Fiction.PNG"))); // NOI18N

javax.swing.GroupLayout jPanel_NonFictionLayout = new
javax.swing.GroupLayout(jPanel_NonFiction);
jPanel_NonFiction.setLayout(jPanel_NonFictionLayout);
jPanel_NonFictionLayout.setHorizontalGroup(
jPanel_NonFictionLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(nfLabel,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(nfImage,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
jPanel_NonFictionLayout.setVerticalGroup(
jPanel_NonFictionLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel_NonFictionLayout.createSequentialGroup()
.createSequentialGroup()
.addComponent(nfImage,
javax.swing.GroupLayout.PREFERRED_SIZE, 105,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
.RELATED)
.addComponent(nfLabel,
javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE))
);
jPanel_Fantasy.setBackground(new java.awt.Color(255, 255,
255));
jPanel_Fantasy.setBorder(javax.swing.BorderFactory.createLine
Border(new java.awt.Color(0, 0, 0)));
```

```

        fantasyLabel.setBackground(new java.awt.Color(255, 255, 255));
        fantasyLabel.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
        fantasyLabel.setForeground(new java.awt.Color(43, 37, 56));

        fantasyLabel.setHorizontalAlignment(javax.swing.SwingConstantsConstan
ts.CENTER);
        fantasyLabel.setText("Fantasy");

        fantasyImage.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Homepage_images/Fant
asy.PNG"))); // NOI18N

        javax.swing.GroupLayout jPanel_FantasyLayout = new
javax.swing.GroupLayout(jPanel_Fantasy);
        jPanel_Fantasy.setLayout(jPanel_FantasyLayout);
        jPanel_FantasyLayout.setHorizontalGroup(
            jPanel_FantasyLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel_FantasyLayout.createSequentialGroup()
                    .addGap(10, 10, 10)
                    .addComponent(fantasyLabel, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10)
                    .addComponent(fantasyImage, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10))
                .addGroup(jPanel_FantasyLayout.createSequentialGroup()
                    .addGap(10, 10, 10)
                    .addComponent(fantasyImage, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10)
                    .addComponent(fantasyLabel, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10))
            )
        );
        jPanel_FantasyLayout.setVerticalGroup(
            jPanel_FantasyLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel_FantasyLayout.createSequentialGroup()
                    .addGap(10, 10, 10)
                    .addComponent(fantasyImage, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10)
                    .addComponent(fantasyLabel, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10))
                .addGroup(jPanel_FantasyLayout.createSequentialGroup()
                    .addGap(10, 10, 10)
                    .addComponent(fantasyLabel, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10)
                    .addComponent(fantasyImage, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10))
            )
        );

        jPanel_FantasyLayout.setHorizontalGroup(
            jPanel_FantasyLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel_FantasyLayout.createSequentialGroup()
                    .addGap(10, 10, 10)
                    .addComponent(fantasyImage, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10)
                    .addComponent(fantasyLabel, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10))
                .addGroup(jPanel_FantasyLayout.createSequentialGroup()
                    .addGap(10, 10, 10)
                    .addComponent(fantasyLabel, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10)
                    .addComponent(fantasyImage, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10))
            )
        );

        jPanel_FantasyLayout.setVerticalGroup(
            jPanel_FantasyLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel_FantasyLayout.createSequentialGroup()
                    .addGap(10, 10, 10)
                    .addComponent(fantasyImage, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10)
                    .addComponent(fantasyLabel, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10))
                .addGroup(jPanel_FantasyLayout.createSequentialGroup()
                    .addGap(10, 10, 10)
                    .addComponent(fantasyLabel, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10)
                    .addComponent(fantasyImage, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10))
            )
        );
    }
}

```

```

        jPanel_Fiction.setBackground(new java.awt.Color(255, 255,
255));

        jPanel_Fiction.setBorder(javax.swing.BorderFactory.createLineB
order(new java.awt.Color(0, 0, 0)));

        fictionLabel.setBackground(new java.awt.Color(255, 255, 255));
        fictionLabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16));
// NOI18N
        fictionLabel.setForeground(new java.awt.Color(43, 37, 56));

        fictionLabel.setHorizontalAlignment(javax.swing.SwingConstantsConstant
s.CENTER);
        fictionLabel.setText("Fiction");

        fictionImage.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Homepage_images/Ficti
on.PNG"))); // NOI18N

        javax.swing.GroupLayout jPanel_FictionLayout = new
javax.swing.GroupLayout(jPanel_Fiction);
        jPanel_Fiction.setLayout(jPanel_FictionLayout);
        jPanel_FictionLayout.setHorizontalGroup(
        jPanel_FictionLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel_FictionLayout.createSequentialGroup()
                .addComponent(fictionLabel,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(fictionImage,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            );
        jPanel_FictionLayout.setVerticalGroup(
        jPanel_FictionLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel_FictionLayout.createSequentialGroup()
                .addComponent(fictionLabel)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(fictionImage))
        );
        jPanel_FictionLayout.setVerticalGroup(
        jPanel_FictionLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel_FictionLayout.createSequentialGroup()
                .addGroup(jPanel_FictionLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(fictionImage)
                    .addComponent(fictionLabel))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(fictionImage,
                javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(jPanel_FictionLayout.createSequentialGroup()
                .addGap(10, 10, 10)
                .addComponent(fictionLabel,
                javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(10, 10, 10)
                .addComponent(fictionImage,
                javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
        );
    
```

```

        .addComponent(fictionLabel,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);

jPanel_Horror.setBackground(new java.awt.Color(255, 255,
255));

jPanel_Horror.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

horrorLabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16));
// NOI18N
horrorLabel.setForeground(new java.awt.Color(43, 37, 56));

horrorLabel.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
horrorLabel.setText("Horror");

horrorImage.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Homepage_images/Horr
or.PNG"))); // NOI18N

javax.swing.GroupLayout jPanel_HorrorLayout = new
javax.swing.GroupLayout(jPanel_Horror);
jPanel_Horror.setLayout(jPanel_HorrorLayout);
jPanel_HorrorLayout.setHorizontalGroup(
jPanel_HorrorLayout.createParallelGroup(javax.swing.GroupLayout
.Alignment.LEADING)
.addComponent(horrorLabel,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(horrorImage,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
jPanel_HorrorLayout.setVerticalGroup(
jPanel_HorrorLayout.createParallelGroup(javax.swing.GroupLayout
Alignment.LEADING)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel_HorrorLayout.createSequentialGroup()
.addComponent(horrorImage,
javax.swing.GroupLayout.PREFERRED_SIZE, 0, Short.MAX_VALUE)
);

```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addComponent(horrorLabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
);

jPanel_Romance.setBackground(new java.awt.Color(255, 255, 255));
```

30,

```
jPanel_Romance.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));


romLabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
romLabel.setForeground(new java.awt.Color(43, 37, 56));

romLabel.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
romLabel.setText("Romance");

romImage.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Homepage_images/Romance.PNG"))); // NOI18N
```

18

```
javax.swing.GroupLayout jPanel_RomanceLayout = new javax.swing.GroupLayout(jPanel_Romance);
jPanel_Romance.setLayout(jPanel_RomanceLayout);
jPanel_RomanceLayout.setHorizontalGroup(
jPanel_RomanceLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(romLabel,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(romImage,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
jPanel_RomanceLayout.setVerticalGroup(
jPanel_RomanceLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel_RomanceLayout.createSequentialGroup()
.addComponent(romImage,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
.RELATED)
.addComponent(romLabel,
javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE))
);

jPanel_Mystery.setBackground(new java.awt.Color(255, 255,
255));

jPanel_Mystery.setBorder(javax.swing.BorderFactory.createLine
Border(new java.awt.Color(0, 0, 0)));

mysLabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
mysLabel.setForeground(new java.awt.Color(43, 37, 56));

mysLabel.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
mysLabel.setText("Mystery");

mysImage.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Homepage_images/Mys
tery.PNG"))); // NOI18N

javax.swing.GroupLayout jPanel_MysteryLayout = new
javax.swing.GroupLayout(jPanel_Mystery);
jPanel_Mystery.setLayout(jPanel_MysteryLayout);
jPanel_MysteryLayout.setHorizontalGroup(
jPanel_MysteryLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(mysLabel,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(mysImage,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);

```



```
.addComponent(poetryLabel,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(poetryImage,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
jPanel_PoetryLayout.setVerticalGroup(
jPanel_PoetryLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel_PoetryLayout.createSequentialGroup()
.addComponent(poetryImage,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE, Short.MAX_VALUE)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addComponent(poetryLabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
);
30,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
);

javax.swing.GroupLayout jPanel_GenresLayout = new
javax.swing.GroupLayout(jPanel_Genres);
jPanel_Genres.setLayout(jPanel_GenresLayout);
jPanel_GenresLayout.setHorizontalGroup(
jPanel_GenresLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jPanel_GenresLayout.createSequentialGroup()
.addGap(65, 65, 65)
.addGroup(jPanel_GenresLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
.addComponent(jPanel_Adventure,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(jPanel_Fiction,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
.addGap(65, 65, 65)
```

```

        .addGroup(jPanel_GenresLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(jPanel_Children,
                javax.swing.GroupLayout.Alignment.TRAILING,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jPanel_Horror,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jPanel_Poetry,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGap(65, 65, 65)

        .addGroup(jPanel_GenresLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(jPanel_Mystery,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jPanel_Classics,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jPanel_Romance,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGap(65, 65, 65)

        .addGroup(jPanel_GenresLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(jPanel_Fantasy,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jPanel_NonFiction,
                javax.swing.GroupLayout.Alignment.TRAILING,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addContainerGap(65, Short.MAX_VALUE))
    );
    jPanel_GenresLayout.setVerticalGroup(
        jPanel_GenresLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel_GenresLayout.createSequentialGroup()
        .addGap(24, 24, 24)

```

```

        .addGroup(jPanel_GenresLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(jPanel_Classics,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jPanel_Children,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jPanel_Adventure,
                javax.swing.GroupLayout.PREFERRED_SIZE, 0, Short.MAX_VALUE)
            .addComponent(jPanel_Fantasy,
                javax.swing.GroupLayout.Alignment.TRAILING,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGap(36, 36, 36)

        .addGroup(jPanel_GenresLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
            .addComponent(jPanel_NonFiction,
                javax.swing.GroupLayout.Alignment.LEADING,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jPanel_Fiction,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jPanel_Horror,
                javax.swing.GroupLayout.Alignment.LEADING,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jPanel_Mystery,
                javax.swing.GroupLayout.Alignment.LEADING,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGap(35, 35, 35)

        .addGroup(jPanel_GenresLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(jPanel_Poetry,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jPanel_Romance,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addContainerGap(43, Short.MAX_VALUE))

```



```

        .addComponent(jLabel_Image,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)) 450,

        .addGroup(jPanel_InformationLayout.createSequentialGroup()
        .addGap(58, 58, 58)
        .addComponent(jScrollPane_TA,
javax.swing.GroupLayout.PREFERRED_SIZE, 357,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(60, 60, 60)
        .addComponent(jLabel_Genres,
javax.swing.GroupLayout.PREFERRED_SIZE, 51,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)
        .addComponent(jPanel_Genres,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGap(33, 33, 33))
);

jScrollPane_TA.setBorder(null);

jScrollPane_Main.setViewportView(jPanel_Information);

javax.swing.GroupLayout jPanel_SubLayout = new
javax.swing.GroupLayout(jPanel_Sub);
jPanel_Sub.setLayout(jPanel_SubLayout);
jPanel_SubLayout.setHorizontalGroup(
jPanel_SubLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel_Main,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
jPanel_SubLayout.setVerticalGroup(
jPanel_SubLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel_Main,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, 418, Short.MAX_VALUE)
);
jPanel_SubLayout.setVerticalGroup(
TopNav.setBackground(new java.awt.Color(43, 37, 56));

```

```

        jButton_Home.setBackground(new java.awt.Color(255, 182,
28));
        jButton_Home.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
        jButton_Home.setText("Home");
        jButton_Home.setBorder(null);
        jButton_Home.setBorderPainted(false);
        jButton_Home.setFocusPainted(false);
        jButton_Home.setPreferredSize(new java.awt.Dimension(80,
35));
        jButton_Home.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jButton_HomeActionPerformed(evt);
            }
        });
    });

    jButton_Books.setBackground(new java.awt.Color(255, 182,
28));
    jButton_Books.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
    jButton_Books.setText("Books");
    jButton_Books.setBorder(null);
    jButton_Books.setBorderPainted(false);
    jButton_Books.setFocusPainted(false);
    jButton_Books.setPreferredSize(new java.awt.Dimension(80,
35));
    jButton_Books.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jButton_BooksActionPerformed(evt);
            }
        });
    });

    jButton_Posts.setBackground(new java.awt.Color(255, 182, 28));
    jButton_Posts.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
    jButton_Posts.setText("Posts");
    jButton_Posts.setBorder(null);
    jButton_Posts.setBorderPainted(false);
    jButton_Posts.setFocusPainted(false);

```

```

        jButton_Posts.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jButton_PostsActionPerformed(evt);
            }
        });
    });

    jButton_Trending.setBackground(new java.awt.Color(255, 182,
28));
    jButton_Trending.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
    jButton_Trending.setText("Trending");
    jButton_Trending.setBorder(null);
    jButton_Trending.setBorderPainted(false);
    jButton_Trending.setFocusPainted(false);
    jButton_Trending.addActionListener(new
java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            jButton_TrendingActionPerformed(evt);
        }
    });
}

jLabel_Welcome.setBackground(new java.awt.Color(17, 94,
111));
jLabel_Welcome.setFont(new java.awt.Font("Malgun Gothic", 1,
28)); // NOI18N
jLabel_Welcome.setForeground(new java.awt.Color(255, 255,
255));

jLabel_Welcome.setHorizontalAlignment(javax.swing.SwingConstantsCon
stants.CENTER);
);
jLabel_Welcome.setText("Welcome to BookTap!");
jLabel_Welcome.setOpaque(true);

jButton_Settings.setBackground(new java.awt.Color(255, 182,
28));
jButton_Settings.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
jButton_Settings.setForeground(new java.awt.Color(43, 37, 56));
jButton_Settings.setText("Settings");
jButton_Settings.setBorder(null);
jButton_Settings.setFocusPainted(false)

```

```

        jButton_Settings.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jButton_SettingsActionPerformed(evt);
            }
        });
    });

    jButton_Profile.setBackground(new java.awt.Color(255, 182,
28));
    jButton_Profile.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
    jButton_Profile.setForeground(new java.awt.Color(43, 37, 56));
    jButton_Profile.setText("Profile");
    jButton_Profile.setBorder(null);
    jButton_Profile.setFocusPainted(false);
    jButton_Profile.addActionListener(new
java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton_ProfileActionPerformed(evt);
        }
    });
}

javax.swing.GroupLayout TopNavLayout = new
javax.swing.GroupLayout(TopNav);
TopNav.setLayout(TopNavLayout);
TopNavLayout.setHorizontalGroup(
    TopNavLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(TopNavLayout.createSequentialGroup()
        .addGap(34, 34, 34)
        .addComponent(jButton_Home,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(jButton_Books,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(jButton_Posts,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
    )
);

TopNavLayout.setVerticalGroup(
    TopNavLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(TopNavLayout.createSequentialGroup()
        .addGap(34, 34, 34)
        .addGroup(TopNavLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jButton_Home,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jButton_Books,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jButton_Posts,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)
        )
    )
);

```

```

        .addComponent(jButton_Trending,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE) 95,

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPl
acement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(jButton_Profile,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE) 84,
        .addGap(18, 18, 18)
        .addComponent(jButton_Settings,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE) 94,
        .addGap(40, 40, 40))
        .addComponent(jLabel_Welcome,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
    TopNavLayout.setVerticalGroup(
        TopNavLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(TopNavLayout.createSequentialGroup())
        .addGap(25, 25, 25)

        .addGroup(TopNavLayout.createParallelGroup(javax.swi
ng.GroupLayout.Alignment.LEADING, false)
        .addComponent(jButton_Posts,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE) 36,
        .addComponent(jButton_Home,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE) 35,
        .addComponent(jButton_Books,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE) 35,
        .addComponent(jButton_Trending,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)) 36,

```

```

        .addComponent(jButton_Settings,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jButton_Profile,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGap(25, 25, 25)
        .addComponent(jLabel_Welcome,
javax.swing.GroupLayout.DEFAULT_SIZE, 85, Short.MAX_VALUE)
        .addContainerGap()
);

        javax.swing.GroupLayout jPanel_MainLayout = new
javax.swing.GroupLayout(jPanel_Main);
jPanel_Main.setLayout(jPanel_MainLayout);
jPanel_MainLayout.setHorizontalGroup(
jPanel_MainLayout.createParallelGroup(javax.swing.Gro
upLayout.Alignment.LEADING)
.addComponent(jPanel_Sub,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(TopNav,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
jPanel_MainLayout.setVerticalGroup(
jPanel_MainLayout.createParallelGroup(javax.swing.Gro
upLayout.Alignment.LEADING)
.addGroup(jPanel_MainLayout.createSequentialGroup()
.addComponent(TopNav,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(0, 0, 0)
.addComponent(jPanel_Sub,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);

```

javix.swing.GroupLayout layout = new

```

javix.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(

```

```

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel_Main,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
        layout.setVerticalGroup(
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jPanel_Main,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);

        pack();
setLocationRelativeTo(null);
}

private void
jButton_BooksActionPerformed(java.awt.event.ActionEvent evt) {

    BooksPage b = new BooksPage(this.username);
    b.show();
    dispose();
}

private void
jButton_HomeActionPerformed(java.awt.event.ActionEvent evt) {

}

private void
jButton_PostsActionPerformed(java.awt.event.ActionEvent evt) {

    Posts p = new Posts(this.username);
    p.show();
    dispose();
}

private void
jButton_TrendingActionPerformed(java.awt.event.ActionEvent evt) {

```

```

        Trending t = new Trending(this.username);
        t.show();
        dispose();
    }

    private void jButton_ProfileActionPerformed(java.awt.event.ActionEvent evt) {

        Profile p = new Profile(this.username);
        p.show();
        dispose();
    }

    private void jButton_SettingsActionPerformed(java.awt.event.ActionEvent evt) {

        Settings s = new Settings(this.username);
        s.show();
        dispose();
    }

    private javax.swing.JPanel TopNav;
    private javax.swing.JLabel advImage;
    private javax.swing.JLabel advLabel;
    private javax.swing.JLabel childrenImage;
    private javax.swing.JLabel childrenLabel;
    private javax.swing.JLabel classicsImage;
    private javax.swing.JLabel classicsLabel;
    private javax.swing.JLabel fantasyImage;
    private javax.swing.JLabel fantasyLabel;
    private javax.swing.JLabel fictionImage;
    private javax.swing.JLabel fictionLabel;
    private javax.swing.JLabel horrorImage;
    private javax.swing.JLabel horrorLabel;
    private javax.swing.JButton jButton_Books;
    private javax.swing.JButton jButton_Home;
    private javax.swing.JButton jButton_Posts;
    private javax.swing.JButton jButton_Profile;
    private javax.swing.JButton jButton_Settings;
    private javax.swing.JButton jButton_Trending;
    private javax.swing.JLabel jLabel_Genres;
    private javax.swing.JLabel jLabel_Image;
    private javax.swing.JLabel jLabel_Welcome;
    private javax.swing.JPanel jPanel_Adventure;
    private javax.swing.JPanel jPanel_Children;

```

```

private javax.swing.JPanel jPanel_Classics;
private javax.swing.JPanel jPanel_Fantasy;
private javax.swing.JPanel jPanel_Fiction;
private javax.swing.JPanel jPanel_Genres;
private javax.swing.JPanel jPanel_Horror;
private javax.swing.JPanel jPanel_Information;
private javax.swing.JPanel jPanel_Main;
private javax.swing.JPanel jPanel_Mystery;
private javax.swing.JPanel jPanel_NonFiction;
private javax.swing.JPanel jPanel_Poetry;
private javax.swing.JPanel jPanel_Romance;
private javax.swing.JPanel jPanel_Sub;
private javax.swing.JScrollPane jScrollPane_Main;
private javax.swing.JScrollPane jScrollPane_TA;
private javax.swing.JTextArea jTextArea_Introduction;
private javax.swing.JLabel mysImage;
private javax.swing.JLabel mysLabel;
private javax.swing.JLabel nfImage;
private javax.swing.JLabel nfLabel;
private javax.swing.JLabel poetryImage;
private javax.swing.JLabel poetryLabel;
private javax.swing.JLabel romImage;
private javax.swing.JLabel romLabel;

}

```

7.2.7. BooksPage.java

```

package booktap;

import java.awt.Color;
import java.awt.Font;
import java.sql.*;

import javax.swing.BorderFactory;
import javax.swing.ImageIcon;

public class BooksPage extends javax.swing.JFrame {

    String username;

    public BooksPage(String u) {
        this.username = u;
        initComponents();
    }
}

```

```

private void initComponents() {

    OuterPanel = new javax.swing.JPanel();
    jScrollPane_Main = new javax.swing.JScrollPane();
    jPanel_Inner = new javax.swing.JPanel();
    genresList = new javax.swing.JComboBox<>();
    filter = new javax.swing.JButton();
    BooksHolder = new javax.swing.JScrollPane();
    BooksHolderPanel = new javax.swing.JPanel();
    BookInfoHolder = new javax.swing.JPanel();
    bookNameLabel = new javax.swing.JLabel();
    authorNameLabel = new javax.swing.JLabel();
    genreLabel = new javax.swing.JLabel();
    publisherLabel = new javax.swing.JLabel();
    bookSummaryLabel = new javax.swing.JLabel();
    bookNameTF = new javax.swing.JTextField();
    authorNameTF = new javax.swing.JTextField();
    genreTF = new javax.swing.JTextField();
    publisherTF = new javax.swing.JTextField();
    bookSummaryHolder = new javax.swing.JScrollPane();
    bookSummaryTA = new javax.swing.JTextArea();
    jLabel_Image = new javax.swing.JLabel();
    TopNav = new javax.swing.JPanel();
    jButton_Books = new javax.swing.JButton();
    jButton_Posts = new javax.swing.JButton();
    jButton_Trending = new javax.swing.JButton();
    jButton_Profile = new javax.swing.JButton();
    jButton1 = new javax.swing.JButton();
    jButton_Home = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.
EXIT_ON_CLOSE);
    setTitle("BOOKS ");
    setPreferredSize(new java.awt.Dimension(1000, 600));

    OuterPanel.setPreferredSize(new
java.awt.Dimension(1000, 600));

    jPanel_Inner.setBackground(new java.awt.Color(43, 37,
56));
    jPanel_Inner.setPreferredSize(new
java.awt.Dimension(1000, 1261));

```

```

        genresList.setBackground(new java.awt.Color(17, 94,
111));
        genresList.setEditable(true);
        genresList.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
        genresList.setForeground(new java.awt.Color(255, 255,
255));
        genresList.setModel(new
javax.swing.DefaultComboBoxModel<>(new String[] { "Select a
Genre...", "Adventure", "Children", "Classics", "Fantasy", "Fiction",
"Horror", "Mystery", "Non-Fiction", "Poetry", "Romance" }));
        genresList.setBorder(javax.swing.BorderFactory.createLi
neBorder(new java.awt.Color(0, 0, 0)));
        filter.setBackground(new java.awt.Color(17, 94, 111));
        filter.setFont(new java.awt.Font("Malgun Gothic", 1, 16));
// NOI18N
        filter.setForeground(new java.awt.Color(255, 255, 255));
        filter.setText("Apply Filter");
        filter.setBorderPainted(false);
        filter.setFocusPainted(false);
        filter.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                filterActionPerformed(evt);
            }
        });
        displayAllBooks();
        BooksHolderPAnel.setBackground(new
java.awt.Color(43,37,56));
        BooksHolderPanel.setLayout(new java.awt.GridLayout(0,
2));
        BooksHolder.setViewportView(BooksHolderPanel);
        BookInfoHolder.setBackground(new java.awt.Color(17,
94, 111));
        BookInfoHolder.setToolTipText("");
        bookNameLabel.setFont(new java.awt.Font("Malgun
Gothic", 1, 16)); // NOI18N
        bookNameLabel.setForeground(new java.awt.Color(255,
255, 255));

```

```

        bookNameLabel.setText("Book Name:");

        authorNameLabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
        authorNameLabel.setForeground(new java.awt.Color(255, 255, 255));
        authorNameLabel.setText("Author Name:");

        genreLabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
        genreLabel.setForeground(new java.awt.Color(255, 255, 255));
        genreLabel.setText("Genre:");

        publisherLabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
        publisherLabel.setForeground(new java.awt.Color(255, 255, 255));
        publisherLabel.setText("Publisher:");

        bookSummaryLabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
        bookSummaryLabel.setForeground(new java.awt.Color(255, 255, 255));
        bookSummaryLabel.setText("Book Summary:");

        bookNameTF.setFont(new java.awt.Font("Malgun Gothic", 1, 14)); // NOI18N
        bookNameTF.setForeground(new java.awt.Color(0, 51, 102));
        bookNameTF.setToolTipText("");

        bookNameTF.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 5, 1, 1));
        bookNameTF.setMargin(new java.awt.Insets(5, 5, 5, 5));
        bookNameTF.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                bookNameTFACTIONPERFORMED(evt);
            }
        });

        authorNameTF.setFont(new java.awt.Font("Malgun Gothic", 1, 14)); // NOI18N

```

```

        authorNameTF.setForeground(new java.awt.Color(0, 51,
102));

        authorNameTF.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 5, 1, 1));
        authorNameTF.setMargin(new java.awt.Insets(5, 5, 5, 5));
        authorNameTF.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                authorNameTFActionPerformed(evt);
            }
        });
    }

    genreTF.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
    genreTF.setForeground(new java.awt.Color(0, 51, 102));

    genreTF.setBorder(javax.swing.BorderFactory.createEmp
tyBorder(1, 5, 1, 1));
    genreTF.setMargin(new java.awt.Insets(5, 5, 5, 5));
    genreTF.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                genreTFActionPerformed(evt);
            }
        });
}

publisherTF.setFont(new java.awt.Font("Malgun Gothic",
1, 14)); // NOI18N
publisherTF.setForeground(new java.awt.Color(0, 51,
102));

publisherTF.setBorder(javax.swing.BorderFactory.create
EmptyBorder(1, 5, 1, 1));
publisherTF.setMargin(new java.awt.Insets(5, 5, 5, 5));
publisherTF.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                publisherTFActionPerformed(evt);
            }
        });
}

```

```

        bookSummaryTA.setColumns(20);
        bookSummaryTA.setFont(new java.awt.Font("Malgun
Gothic", 1, 14)); // NOI18N
        bookSummaryTA.setForeground(new java.awt.Color(0,
51, 102));
        bookSummaryTA.setLineWrap(true);
        bookSummaryTA.setRows(5);
        bookSummaryTA.setWrapStyleWord(true);

        bookSummaryTA.setBorder(javax.swing.BorderFactory.c
reateEmptyBorder(1, 5, 1, 1));
        bookSummaryTA.setMargin(new java.awt.Insets(5, 5, 5,
5));
        bookSummaryHolder.setViewportView(bookSummaryTA);

        jLabel_Image.setPreferredSize(new
java.awt.Dimension(200, 300));

        javax.swing.GroupLayout BookInfoHolderLayout = new
javax.swing.GroupLayout(BookInfoHolder);
        BookInfoHolder.setLayout(BookInfoHolderLayout);
        BookInfoHolderLayout.setHorizontalGroup(
            BookInfoHolderLayout.createParallelGroup(javax.Swing.GroupLayout.Alignment.LEADING)
                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
BookInfoHolderLayout.createSequentialGroup()
                    .addGap(32, 32, 32)
                    .addGroup(BookInfoHolderLayout.createParallelGroup(jer
v.swing.GroupLayout.Alignment.TRAILING)
                        .addGroup(BookInfoHolderLayout.createSequentialGroup()
                            .addGap(32, 32, 32)
                            .addGroup(BookInfoHolderLayout.createParallelGroup(jer
v.swing.GroupLayout.Alignment.TRAILING)
                                .addComponent(bookSummaryLabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addGroup(BookInfoHolderLayout.createSequentialGroup()
                                    .addGap(0, 0, Short.MAX_VALUE))
                                .addComponent(bookSummaryHolder)
                            )
                        )
                        .addGroup(BookInfoHolderLayout.createSequentialGroup()
                            .addGap(32, 32, 32)
                            .addGroup(BookInfoHolderLayout.createParallelGroup(jer
v.swing.GroupLayout.Alignment.TRAILING)
                                .addComponent(bookSummaryLabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addGroup(BookInfoHolderLayout.createSequentialGroup()
                                    .addGap(0, 0, Short.MAX_VALUE))
                                .addComponent(bookSummaryHolder)
                            )
                        )
                    )
                )
            )
        );
        BookInfoHolderLayout.setVerticalGroup(
            BookInfoHolderLayout.createParallelGroup(javax.Swing.GroupLayout.Alignment.LEADING)
                .addGroup(BookInfoHolderLayout.createSequentialGroup()
                    .addGap(32, 32, 32)
                    .addGroup(BookInfoHolderLayout.createParallelGroup(jer
v.swing.GroupLayout.Alignment.TRAILING)
                        .addGroup(BookInfoHolderLayout.createSequentialGroup()
                            .addGap(32, 32, 32)
                            .addGroup(BookInfoHolderLayout.createParallelGroup(jer
v.swing.GroupLayout.Alignment.TRAILING)
                                .addComponent(bookSummaryLabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addGroup(BookInfoHolderLayout.createSequentialGroup()
                                    .addGap(0, 0, Short.MAX_VALUE))
                                .addComponent(bookSummaryHolder)
                            )
                        )
                        .addGroup(BookInfoHolderLayout.createSequentialGroup()
                            .addGap(32, 32, 32)
                            .addGroup(BookInfoHolderLayout.createParallelGroup(jer
v.swing.GroupLayout.Alignment.TRAILING)
                                .addComponent(bookSummaryLabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addGroup(BookInfoHolderLayout.createSequentialGroup()
                                    .addGap(0, 0, Short.MAX_VALUE))
                                .addComponent(bookSummaryHolder)
                            )
                        )
                    )
                )
            )
        );
        BookInfoHolderLayout.setHorizontalGroup(
            BookInfoHolderLayout.createParallelGroup(javax.Swing.GroupLayout.Alignment.LEADING)
                .addGroup(BookInfoHolderLayout.createSequentialGroup()
                    .addGap(32, 32, 32)
                    .addGroup(BookInfoHolderLayout.createParallelGroup(jer
v.swing.GroupLayout.Alignment.TRAILING)
                        .addGroup(BookInfoHolderLayout.createSequentialGroup()
                            .addGap(32, 32, 32)
                            .addGroup(BookInfoHolderLayout.createParallelGroup(jer
v.swing.GroupLayout.Alignment.TRAILING)
                                .addComponent(bookSummaryLabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addGroup(BookInfoHolderLayout.createSequentialGroup()
                                    .addGap(0, 0, Short.MAX_VALUE))
                                .addComponent(bookSummaryHolder)
                            )
                        )
                        .addGroup(BookInfoHolderLayout.createSequentialGroup()
                            .addGap(32, 32, 32)
                            .addGroup(BookInfoHolderLayout.createParallelGroup(jer
v.swing.GroupLayout.Alignment.TRAILING)
                                .addComponent(bookSummaryLabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addGroup(BookInfoHolderLayout.createSequentialGroup()
                                    .addGap(0, 0, Short.MAX_VALUE))
                                .addComponent(bookSummaryHolder)
                            )
                        )
                    )
                )
            )
        );
        BookInfoHolderLayout.setVerticalGroup(
            BookInfoHolderLayout.createParallelGroup(javax.Swing.GroupLayout.Alignment.LEADING)
                .addGroup(BookInfoHolderLayout.createSequentialGroup()
                    .addGap(32, 32, 32)
                    .addGroup(BookInfoHolderLayout.createParallelGroup(jer
v.swing.GroupLayout.Alignment.TRAILING)
                        .addGroup(BookInfoHolderLayout.createSequentialGroup()
                            .addGap(32, 32, 32)
                            .addGroup(BookInfoHolderLayout.createParallelGroup(jer
v.swing.GroupLayout.Alignment.TRAILING)
                                .addComponent(bookSummaryLabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addGroup(BookInfoHolderLayout.createSequentialGroup()
                                    .addGap(0, 0, Short.MAX_VALUE))
                                .addComponent(bookSummaryHolder)
                            )
                        )
                        .addGroup(BookInfoHolderLayout.createSequentialGroup()
                            .addGap(32, 32, 32)
                            .addGroup(BookInfoHolderLayout.createParallelGroup(jer
v.swing.GroupLayout.Alignment.TRAILING)
                                .addComponent(bookSummaryLabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addGroup(BookInfoHolderLayout.createSequentialGroup()
                                    .addGap(0, 0, Short.MAX_VALUE))
                                .addComponent(bookSummaryHolder)
                            )
                        )
                    )
                )
            )
        );
    }
}

```

```

        .addComponent(genreLabel,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(authorNameLabel,
javax.swing.GroupLayout.DEFAULT_SIZE, 117, Short.MAX_VALUE))
        .addGap(56, 56, 56)

        .addGroup(BookInfoHolderLayout.createParallelGroup(ja
vax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(authorNameTF)
        .addComponent(genreTF)))
        .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
BookInfoHolderLayout.createSequentialGroup()

        .addGroup(BookInfoHolderLayout.createParallelGroup(ja
vax.swing.GroupLayout.Alignment.TRAILING, false)
        .addComponent(bookNameLabel,
javax.swing.GroupLayout.DEFAULT_SIZE, 135, Short.MAX_VALUE)
        .addComponent(publisherLabel,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGap(38, 38, 38)

        .addGroup(BookInfoHolderLayout.createParallelGroup(ja
vax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(publisherTF)
        .addComponent(bookNameTF)))
        .addGap(71, 71, 71)
        .addComponent(jLabel_Image,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(56, 56, 56))
    );
    BookInfoHolderLayout.setVerticalGroup(
        BookInfoHolderLayout.createParallelGroup(javax.swing.
        GroupLayout.Alignment.LEADING)
        .addGroup(BookInfoHolderLayout.createSequentialGroup()
        .addGap(28, 28, 28)

        .addGroup(BookInfoHolderLayout.createParallelGroup(ja
vax.swing.GroupLayout.Alignment.BASELINE)

```

```
.addComponent(bookNameLabel,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
.addComponent(bookNameTF))  
.addGap(18, 18, 18)  
  
.addGroup(BookInfoHolderLayout.createParallelGroup(ja  
vax.swing.GroupLayout.Alignment.LEADING)  
  
.addGroup(BookInfoHolderLayout.createSequentialGroup())  
.addComponent(jLabel_Image,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
  
.addContainerGap(javax.swing.GroupLayout.DEFAULT_  
SIZE, Short.MAX_VALUE))  
.addGroup(BookInfoHolderLayout.createSequentialGroup())  
  
.addGroup(BookInfoHolderLayout.createParallelGroup(ja  
vax.swing.GroupLayout.Alignment.BASELINE)  
.addComponent(authorNameLabel,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE) 32,  
.addComponent(authorNameTF))  
.addGap(18, 18, 18)  
  
.addGroup(BookInfoHolderLayout.createParallelGroup(ja  
vax.swing.GroupLayout.Alignment.BASELINE)  
.addComponent(genreLabel,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE) 32,  
.addComponent(genreTF))  
.addGap(18, 18, 18)  
  
.addGroup(BookInfoHolderLayout.createParallelGroup(ja  
vax.swing.GroupLayout.Alignment.BASELINE)  
.addComponent(publisherLabel,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE) 32,  
.addComponent(publisherTF))  
.addGap(28, 28, 28)  
.addComponent(bookSummaryLabel,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE) 32,
```

```

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(bookSummaryHolder,
        javax.swing.GroupLayout.PREFERRED_SIZE, 170,
        javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(255, 255, 255)))
    );
}

javax.swing.GroupLayout jPanel_InnerLayout = new
javax.swing.GroupLayout(jPanel_Inner);
jPanel_Inner.setLayout(jPanel_InnerLayout);
jPanel_InnerLayout.setHorizontalGroup(
jPanel_InnerLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jPanel_InnerLayout.createSequentialGroup()
.addGap(67, 67, 67)

.addGroup(jPanel_InnerLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
.addComponent(BookInfoHolder,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(BooksHolder,
javax.swing.GroupLayout.DEFAULT_SIZE, 857, Short.MAX_VALUE)
.addGroup(jPanel_InnerLayout.createSequentialGroup()
.addComponent(genresList,
javax.swing.GroupLayout.PREFERRED_SIZE, 255,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(82, 82, 82)
.addComponent(filter,
javax.swing.GroupLayout.PREFERRED_SIZE, 136,
javax.swing.GroupLayout.PREFERRED_SIZE)))
.addContainerGap(76, Short.MAX_VALUE))
);
jPanel_InnerLayout.setVerticalGroup(
jPanel_InnerLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jPanel_InnerLayout.createSequentialGroup()
.addGap(34, 34, 34)

.addGroup(jPanel_InnerLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

```

```

        .addComponent(genresList,
        javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(filter,
        javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(42, 42, 42)
            .addComponent(BooksHolder,
        javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(64, 64, 64)
            .addComponent(BookInfoHolder,
        javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(203, Short.MAX_VALUE))
    );
}

jScrollPane_Main.setViewportView(jPanel_Inner);

TopNav.setBackground(new java.awt.Color(43, 37, 56));

jButton_Books.setBackground(new java.awt.Color(255,
182, 28));
jButton_Books.setFont(new java.awt.Font("Malgun
Gothic", 1, 14)); // NOI18N
jButton_Books.setText("Books");
jButton_Books.setBorder(null);
jButton_Books.setBorderPainted(false);
jButton_Books.setFocusPainted(false);
jButton_Books.addActionListener(new
java.awt.event.ActionListener() {
    public void
actionPerformed(java.awt.event.ActionEvent evt) {
        jButton_BooksActionPerformed(evt);
    }
});

jButton_Posts.setBackground(new java.awt.Color(255,
182, 28));
jButton_Posts.setFont(new java.awt.Font("Malgun
Gothic", 1, 14)); // NOI18N
jButton_Posts.setText("Posts");
jButton_Posts.setBorder(null);
jButton_Posts.setBorderPainted(false);
jButton_Posts.setFocusPainted(false);

```

```

        jButton_Posts.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                jButton_PostsActionPerformed(evt);
            }
        });

        jButton_Trending.setBackground(new
java.awt.Color(255, 182, 28));
        jButton_Trending.setFont(new java.awt.Font("Malgun
Gothic", 1, 14)); // NOI18N
        jButton_Trending.setText("Trending");
        jButton_Trending.setBorder(null);
        jButton_Trending.setBorderPainted(false);
        jButton_Trending.setFocusPainted(false);
        jButton_Trending.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                jButton_TrendingActionPerformed(evt);
            }
        });

        jButton_Profile.setBackground(new java.awt.Color(255,
182, 28));
        jButton_Profile.setFont(new java.awt.Font("Malgun
Gothic", 1, 14)); // NOI18N
        jButton_Profile.setForeground(new java.awt.Color(43,
37, 56));
        jButton_Profile.setText("Profile");
        jButton_Profile.setBorder(null);
        jButton_Profile.setFocusPainted(false);
        jButton_Profile.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                jButton_ProfileActionPerformed(evt);
            }
        });

        jButton1.setBackground(new java.awt.Color(255, 182,
28));
        jButton1.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N

```

```

        jButton1.setForeground(new java.awt.Color(43, 37, 56));
        jButton1.setText("Settings");
        jButton1.setBorder(null);
        jButton1.setFocusPainted(false);
        jButton1.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });

        jButton_Home.setBackground(new java.awt.Color(255,
182, 28));
        jButton_Home.setFont(new java.awt.Font("Malgun
Gothic", 1, 14)); // NOI18N
        jButton_Home.setForeground(new java.awt.Color(43, 37,
56));
        jButton_Home.setText("Home");
        jButton_Home.setBorder(null);
        jButton_Home.setFocusPainted(false);
        jButton_Home.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                jButton_HomeActionPerformed(evt);
            }
        });

        javax.swing.GroupLayout TopNavLayout = new
javax.swing.GroupLayout(TopNav);
        TopNav.setLayout(TopNavLayout);
        TopNavLayout.setHorizontalGroup(
            TopNavLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(TopNavLayout.createSequentialGroup()
                .addGap(62, 62, 62)
                .addComponent(jButton_Home,
                javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jButton_Books,
                javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.PREFERRED_SIZE))
        );
    }

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        /* Set the Nimbus look and feel */
        //
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the
         * default look and feel.  For details see
         * http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(FrmMain.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(FrmMain.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(FrmMain.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(FrmMain.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        }
        //

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new FrmMain().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify//GEN-BEGIN:variables
    private javax.swing.JButton jButton_Home;
    private javax.swing.JButton jButton_Books;
    // End of variables declaration//GEN-END:variables
}

```

```

        .addGap(18, 18, 18)
        .addComponent(jButton_Posts,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE) 88,
        .addGap(18, 18, 18)
        .addComponent(jButton_Trending,
javax.swing.GroupLayout.PREFERRED_SIZE, 86,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPl
acement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(jButton_Profile,
javax.swing.GroupLayout.PREFERRED_SIZE, 85,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 85,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(73, 73, 73))
);

TopNavLayout.setVerticalGroup(
    TopNavLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(TopNavLayout.createSequentialGroup()
    .addGap(25, 25, 25)

    .addGroup(TopNavLayout.createParallelGroup(javax.swi
ng.GroupLayout.Alignment.BASELINE)
    .addComponent(jButton_Books,
javax.swing.GroupLayout.PREFERRED_SIZE, 35,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jButton_Posts,
javax.swing.GroupLayout.PREFERRED_SIZE, 35,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jButton_Trending,
javax.swing.GroupLayout.PREFERRED_SIZE, 35,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jButton_Profile,
javax.swing.GroupLayout.PREFERRED_SIZE, 35,
javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jButton_Home,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap(25, Short.MAX_VALUE))
);

        javax.swing.GroupLayout OuterPanelLayout = new
javax.swing.GroupLayout(OuterPanel);
        OuterPanel.setLayout(OuterPanelLayout);
        OuterPanelLayout.setHorizontalGroup(
OuterPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jScrollPane_Main,
javax.swing.GroupLayout.DEFAULT_SIZE, 1000, Short.MAX_VALUE)
.addComponent(TopNav,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
        OuterPanelLayout.setVerticalGroup(
OuterPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
OuterPanelLayout.createSequentialGroup()
.addComponent(TopNav,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(0, 0, 0)
.addComponent(jScrollPane_Main,
javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
);

```

1366,

```

        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addComponent(OuterPanel,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
layout.setVerticalGroup(
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(OuterPanel,
javax.swing.GroupLayout.DEFAULT_SIZE, 1451, Short.MAX_VALUE)
);

pack();
setLocationRelativeTo(null);
}

private void jButton_PostsActionPerformed(java.awt.event.ActionEvent evt) {

    Posts p = new Posts(this.username);
    p.show();
    dispose();
}

private void jButton_TrendingActionPerformed(java.awt.event.ActionEvent evt) {

    Trending t = new Trending(this.username);
    t.show();
    dispose();
}

private void jButton_ProfileActionPerformed(java.awt.event.ActionEvent evt) {

    Profile p = new Profile(this.username);
    p.show();
    dispose();
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    Settings s = new Settings(this.username);
    s.show();
}

```

```

        dispose();
    }

    private void jButton_BooksActionPerformed(java.awt.event.ActionEvent evt) {

    }

    private void jButton_HomeActionPerformed(java.awt.event.ActionEvent evt) {

        HomePage h = new HomePage(this.username);
        h.show();
        dispose();
    }

    private void bookNameTFACTIONPERFORMED(java.awt.event.ActionEvent evt) {

    }

    private void authorNameTFACTIONPERFORMED(java.awt.event.ActionEvent evt) {

    }

    private void genreTFACTIONPERFORMED(java.awt.event.ActionEvent evt) {

    }

    private void publisherTFACTIONPERFORMED(java.awt.event.ActionEvent evt) {

    }

    private void filterACTIONPERFORMED(java.awt.event.ActionEvent evt) {
        BooksHolderPanel.removeAll();
        revalidate();
        repaint();
        int index = genresList.getSelectedIndex();
        String genres[] = { "None Selected", "Adventure",
        "Children", "Classics", "Fantasy", "Fiction", "Horror",
        "Mystery", "Non-Fiction", "Poetry", "Romance" };
    }
}

```

```

        javax.swing.JButton[] buttons = new
        javax.swing.JButton[100];
        int i = 0;

        if (index != 0) {
            try {
                Class.forName("oracle.jdbc.driver.OracleDriver");

                Connection con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe",
                "it175",
                "sravya");

                Statement stmt = con.createStatement();
                ResultSet rs = stmt.executeQuery(
                    "SELECT * FROM Books INNER JOIN GENRES ON
Books.BOOKID=GENRES.BOOKID WHERE
GENRES.GENRENAME='"
                    + genres[index] + "'");
            }
        }

        String books[] = new String[100];

        while (rs.next()) {
            books[i] = rs.getString(2);
            i++;
        }
        if (i == 0) {
            BooksHolderPanel.setLayout(new
java.awt.FlowLayout(java.awt.FlowLayout.CENTER));
            javax.swing.JLabel message = new
javax.swing.JLabel("NO BOOKS IN THIS GENRE!");

            message.setAlignmentX(java.awt.Component.CENTER_ALIGNMENT);

            message.setAlignmentY(java.awt.Component.CENTER_ALIGNMENT);
            BooksHolderPanel.add(message);
            pack();
            setVisible(true);
        }
        else {
            BooksHolderPanel.setLayout(new
java.awt.GridLayout(0, 2));
            for (int j = 0; j < i; j++) {

```

```

                javax.swing.JButton temp =
new javax.swing.JButton(books[j]);
temp.setBackground(new
Color(17, 94, 111));
temp.setForeground(java.awt.Color.WHITE);
temp.setFocusPainted(false);
temp.setFont(new
java.awt.Font("Malgun Gothic", 1, 14));
temp.setVisible(true);

temp.addActionListener(new java.awt.event.ActionListener() {
@Override
public void
actionPerformed(java.awt.event.ActionEvent e) {
displaySelectedBook(e,
genres[index]);

}
});

buttons[j] = temp;

BooksHolderPanel.add(buttons[j]);
}

pack();
setVisible(true);
}

con.close();
} catch (Exception exc) {
System.out.println(exc);
}
} else {
displayAllBooks();
pack();
setVisible(true);
}

}

private void HomeActionPerformed(java.awt.event.ActionEvent evt) {

HomePage h = new HomePage(this.username);
h.show();
dispose();
}

```

```

    private void displaySelectedBook(java.awt.event.ActionEvent evt,
String genre) {

    try {
        Class.forName("oracle.jdbc.driver.OracleDriver");

        Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe",
"it175",
"sravya");

        String temp = evt.getActionCommand();
        String bname = temp.replaceAll("", "");

        Statement stmt = con.createStatement();
        ResultSet rs = stmt.executeQuery("SELECT * FROM
BOOKS WHERE BOOKNAME='" + bname + "'");

        int bid = 1;
        String fname = "", lname = "", bsummary = "";
        while (rs.next()) {
            bid = rs.getInt(1);
            fname = rs.getString(3);
            lname = rs.getString(6);
            bsummary = rs.getString(4);
            Blob b = rs.getBlob(7);
            byte barr[] = b.getBytes(1,(int)b.length());
            ImageIcon icon = new ImageIcon(barr);
            java.awt.Image img = icon.getImage();
            java.awt.Image scale = img.getScaledInstance(jLabel_Image.getWidth(),
jLabel_Image.getHeight(),java.awt.Image.SCALE_SMOOTH);
            ImageIcon scaled = new ImageIcon(scale);
            jLabel_Image.setIcon(scaled);
        }

        genre = getGenre(bid);

        bookNameTF.setText(bname);
        authorNameTF.setText(fname);
        genreTF.setText(genre);
        publisherTF.setText(lname);
        bookSummaryTA.setText(bsummary);

        con.close();
    }
}

```

```

        } catch (Exception e) {
            System.out.println(e.getStackTrace());
        }
    }

    public void displayAllBooks() {
        BooksHolderPanel.setLayout(new java.awt.GridLayout(0, 2));
        try {
            Class.forName("oracle.jdbc.driver.OracleDriver");

            Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe",
                "it175",
                "sravya");
            Statement stmt = con.createStatement();
            ResultSet rs = stmt.executeQuery("SELECT * FROM
Books");

            while (rs.next()) {
                String bname = rs.getString(2);
                String genre = rs.getString(6);

                if ("".equals(bname) || "".equals(genre)) {
                    break;
                }

                javax.swing.JButton b = new
                javax.swing.JButton(bname);
                b.setFont(new java.awt.Font("Malgun Gothic",
Font.PLAIN, 13));
                b.setForeground(java.awt.Color.WHITE);
                b.setBackground(new Color(17, 94, 111));
                b.setFocusPainted(false);

                b.setBorder(BorderFactory.createLineBorder(Colo
r.black));
                b.addActionListener(new
                java.awt.event.ActionListener() {
                    public void
actionPerformed(java.awt.event.ActionEvent e) {
                        displaySelectedBook(e, genre);
                    }
                });
            };
            BooksHolderPanel.add(b);
        }
    }
}

```

```

        }
        con.close();
    } catch (Exception exc) {
        System.out.println(exc);
    }
}

public String getGenre(int bookID) {
    String genre = "";
    try {
        Class.forName("oracle.jdbc.driver.OracleDriver");

        Connection con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe",
"it175",
"sravya");
        Statement stmt = con.createStatement();
        ResultSet rs = stmt.executeQuery("SELECT * FROM
Genres WHERE BOOKID=" + bookID);

        while (rs.next()) {
            genre += rs.getString(2) + " ";

        } catch (Exception e) {
            System.out.println(e.getStackTrace());
        }
        return genre;
    }

private javax.swing.JPanel BookInfoHolder;
private javax.swing.JScrollPane BooksHolder;
private javax.swing.JPanel BooksHolderPanel;
private javax.swing.JPanel OuterPanel;
private javax.swing.JPanel TopNav;
private javax.swing.JLabel authorNameLabel;
private javax.swing.JTextField authorNameTF;
private javax.swing.JLabel bookNameLabel;
private javax.swing.JTextField bookNameTF;
private javax.swing.JScrollPane bookSummaryHolder;
private javax.swing.JLabel bookSummaryLabel;
private javax.swing.JTextArea bookSummaryTA;
private javax.swing.JButton filter;
private javax.swing.JLabel genreLabel;
private javax.swing.JTextField genreTF;
private javax.swing.JComboBox<String> genresList;

```

```

private javax.swing.JButton jButton1;
private javax.swing.JButton jButton_Books;
private javax.swing.JButton jButton_Home;
private javax.swing.JButton jButton_Posts;
private javax.swing.JButton jButton_Profile;
private javax.swing.JButton jButton_Trending;
private javax.swing.JLabel jLabel_Image;
private javax.swing.JPanel jPanel_Inner;
private javax.swing.JScrollPane jScrollPane_Main;
private javax.swing.JLabel publisherLabel;
private javax.swing.JTextField publisherTF;

}

```

7.2.8. Posts.java

```

package booktap;

import java.io.FileInputStream;
import java.sql.*;
import javax.swing.*;
import java.awt.*;
import javax.swing.border.EmptyBorder;
public class Posts extends javax.swing.JFrame {

    String username;
    public Posts(String u) {
        this.username = u;
        initComponents();
    }

    private void initComponents() {

        jLayeredPane_PostsMain = new javax.swing.JLayeredPane();
        jPanel_Tabs = new javax.swing.JPanel();
        jLayeredPane_PostsSub = new javax.swing.JLayeredPane();
        jPanel_Posts = new javax.swing.JPanel();
        jButton_Home = new javax.swing.JButton();
        jButton_Books = new javax.swing.JButton();
        jButton_Posts = new javax.swing.JButton();
        jButton_Trending = new javax.swing.JButton();
        jButton_Settings = new javax.swing.JButton();
        jButton_AddPost = new javax.swing.JButton();

```

```

jButton_Profile = new javax.swing.JButton();
jScrollPane_Posts = new javax.swing.JScrollPane();
jPanel_Post = new javax.swing.JPanel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setTitle("POSTS");
setPreferredSize(new java.awt.Dimension(1000, 600));
setSize(new java.awt.Dimension(1000, 600));

jPanel_Tabs.setBackground(new java.awt.Color(43, 37, 56));

jLayeredPane_PostsSub.setBackground(new java.awt.Color(17, 94, 111));

jPanel_Posts.setBackground(new java.awt.Color(17, 94, 111));
jPanel_Posts.setPreferredSize(new java.awt.Dimension(925, 508));

jButton_Home.setBackground(new java.awt.Color(255, 182, 28));
jButton_Home.setFont(new java.awt.Font("Malgun Gothic", 1, 14)); // NOI18N
jButton_Home.setForeground(new java.awt.Color(43, 37, 56));
jButton_Home.setText("Home");
jButton_Home.setBorder(null);
jButton_Home.setFocusPainted(false);
jButton_Home.addActionListener(new
java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton_HomeActionPerformed(evt);
    }
});
jButton_Home.addActionListener(new java.awt.event.ActionListener() {

jButton_Books.setBackground(new java.awt.Color(255, 182, 28));
jButton_Books.setFont(new java.awt.Font("Malgun Gothic", 1, 14)); // NOI18N
jButton_Books.setForeground(new java.awt.Color(43, 37, 56));
jButton_Books.setText("Books");
jButton_Books.setBorder(null);
jButton_Books.setFocusPainted(false);
jButton_Books.addActionListener(new
java.awt.event.ActionListener() {

```

```

        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            jButton_BooksActionPerformed(evt);
        }
    });

    jButton_Posts.setBackground(new java.awt.Color(255, 182, 28));
    jButton_Posts.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
    jButton_Posts.setForeground(new java.awt.Color(43, 37, 56));
    jButton_Posts.setText("Posts");
    jButton_Posts.setBorder(null);
    jButton_Posts.setFocusPainted(false);
    jButton_Posts.addActionListener(new
java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            jButton_PostsActionPerformed(evt);
        }
    });

    jButton_Trending.setBackground(new java.awt.Color(255, 182,
28));
    jButton_Trending.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
    jButton_Trending.setForeground(new java.awt.Color(43, 37,
56));
    jButton_Trending.setText("Trending");
    jButton_Trending.setBorder(null);
    jButton_Trending.setFocusPainted(false);
    jButton_Trending.addActionListener(new
java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            jButton_TrendingActionPerformed(evt);
        }
    });

    jButton_Settings.setBackground(new java.awt.Color(255, 182,
28));
    jButton_Settings.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
    jButton_Settings.setForeground(new java.awt.Color(43, 37, 56));
    jButton_Settings.setText("Settings");
    jButton_Settings.setBorder(null);

```

```

        jButton_Settings.setFocusPainted(false);
        jButton_Settings.setPreferredSize(new java.awt.Dimension(80,
35));
        jButton_Settings.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jButton_SettingsActionPerformed(evt);
            }
        });
    });

    jButton_AddPost.setBackground(new java.awt.Color(255, 182,
28));
    jButton_AddPost.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
    jButton_AddPost.setText("+ Add Post");
    jButton_AddPost.setBorder(null);
    jButton_AddPost.setFocusPainted(false);
    jButton_AddPost.addActionListener(new
java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            jButton_AddPostActionPerformed(evt);
        }
    });
}

jButton_Profile.setBackground(new java.awt.Color(255, 182,
28));
jButton_Profile.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
jButton_Profile.setForeground(new java.awt.Color(43, 37, 56));
jButton_Profile.setText("Profile");
jButton_Profile.setBorder(null);
jButton_Profile.setFocusPainted(false);
jButton_Profile.setPreferredSize(new java.awt.Dimension(85,
35));
jButton_Profile.addActionListener(new
java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            jButton_ProfileActionPerformed(evt);
        }
    });
}

```

```

        javax.swing.GroupLayout jPanel_PostsLayout = new
        javax.swing.GroupLayout(jPanel_Posts);
        jPanel_Posts.setLayout(jPanel_PostsLayout);
        jPanel_PostsLayout.setHorizontalGroup(
            jPanel_PostsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel_PostsLayout.Alignment.TRAILING,
                    jPanel_PostsLayout.createSequentialGroup()
                        .addGap(40, 40, 40)
                        .addComponent(jButton_Home,
                            javax.swing.GroupLayout.PREFERRED_SIZE,
                            javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(18, 18, 18)
                        .addComponent(jButton_Books,
                            javax.swing.GroupLayout.PREFERRED_SIZE,
                            javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(18, 18, 18)
                        .addComponent(jButton_Posts,
                            javax.swing.GroupLayout.PREFERRED_SIZE,
                            javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(18, 18, 18)
                        .addComponent(jButton_Trending,
                            javax.swing.GroupLayout.PREFERRED_SIZE,
                            javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(18, 18, 18)
                        .addComponent(jButton_Profile,
                            javax.swing.GroupLayout.PREFERRED_SIZE,
                            javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(18, 18, 18)
                        .addComponent(jButton_Settings,
                            javax.swing.GroupLayout.PREFERRED_SIZE,
                            javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(40, 40, 40))
                .addGroup(jPanel_PostsLayout.Alignment.TRAILING,
                    jPanel_PostsLayout.createSequentialGroup()
                        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
                            Short.MAX_VALUE)
                        .addComponent(jButton_AddPost,
                            javax.swing.GroupLayout.PREFERRED_SIZE,
                            javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(83, 83, 83))
            );
    
```

```

jPanel_PostsLayout.setVerticalGroup(
    jPanel_PostsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel_PostsLayout.createSequentialGroup())
        .addGap(25, 25, 25)

    .addGroup(jPanel_PostsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jButton_Profile,
            javax.swing.GroupLayout.DEFAULT_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jButton_Settings,
            javax.swing.GroupLayout.DEFAULT_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addGroup(jPanel_PostsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jButton_Home,
                javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jButton_Books,
                javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jButton_Posts,
                javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jButton_Trending,
                javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jButton_AddPost,
            javax.swing.GroupLayout.PREFERRED_SIZE,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap()
    );
}

jLayeredPane_PostsSub.setLayer(jPanel_Posts,
    javax.swing.JLayeredPane.DEFAULT_LAYER);

javax.swing.GroupLayout jLayeredPane_PostsSubLayout = new
javax.swing.GroupLayout(jLayeredPane_PostsSub);
jLayeredPane_PostsSub.setLayout(jLayeredPane_PostsSubLayout);

```

```
jLayeredPane_PostsSubLayout.setHorizontalGroup(jLayeredPane_PostsSubLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jLayeredPane_PostsSubLayout.createSequentialGroup()
.addComponent(jPanel_Posts,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(0, 45, Short.MAX_VALUE))
);
jLayeredPane_PostsSubLayout.setVerticalGroup(jLayeredPane_PostsSubLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jLayeredPane_PostsSubLayout.createSequentialGroup()
.addComponent(jPanel_Posts,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(0, 20, Short.MAX_VALUE))
);
jPanel_Post.setBackground(new java.awt.Color(43, 37, 56));
jPanel_Post.setLayout(new java.awt.GridLayout(1, 0));
jScrollPane_Posts.setViewportView(jPanel_Post);

javax.swing.GroupLayout jPanel_TabsLayout = new javax.swing.GroupLayout(jPanel_Tabs);
jPanel_Tabs.setLayout(jPanel_TabsLayout);
jPanel_TabsLayout.setHorizontalGroup(jPanel_TabsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jScrollPane_Posts,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, 1125, Short.MAX_VALUE)
.addGroup(jPanel_TabsLayout.createSequentialGroup()
.addComponent(jLayeredPane_PostsSub,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jLayeredPane_PostsSub,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
);
jPanel_TabsLayout.setVerticalGroup(jPanel_TabsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jScrollPane_Posts,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, 1125, Short.MAX_VALUE)
.addGroup(jPanel_TabsLayout.createSequentialGroup()
.addComponent(jLayeredPane_PostsSub,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jLayeredPane_PostsSub,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
);
```

```

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
);
jPanel_TabsLayout.setVerticalGroup(
jPanel_TabsLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jPanel_TabsLayout.createSequentialGroup()
.addGap(20, 20, 20)
.addComponent(jLayeredPane_PostsSub,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
.RELATED)
.addComponent(jScrollPane_Posts,
javax.swing.GroupLayout.DEFAULT_SIZE, 461, Short.MAX_VALUE))
);

jLayeredPane_PostsMain.setLayer(jPanel_Tabs,
javax.swing.JLayeredPane.DEFAULT_LAYER);

javax.swing.GroupLayout jLayeredPane_PostsMainLayout = new
javax.swing.GroupLayout(jLayeredPane_PostsMain);

jLayeredPane_PostsMain.setLayout(jLayeredPane_PostsMainLa
yout);
jLayeredPane_PostsMainLayout.setHorizontalGroup(
jLayeredPane_PostsMainLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jPanel_Tabs,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
jLayeredPane_PostsMainLayout.setVerticalGroup(
jLayeredPane_PostsMainLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jPanel_Tabs,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);

```

```

        javax.swing.GroupLayout layout = new
        javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLayeredPane_PostsMain)
            );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLayeredPane_PostsMain)
            );

        pack();
        setLocationRelativeTo(null);
    }

    private void jButton_HomeActionPerformed(java.awt.event.ActionEvent evt) {

        HomePage h = new HomePage(this.username);
        h.show();
        dispose();
    }

    private void jButton_AddPostActionPerformed(java.awt.event.ActionEvent evt) {

        AddPost a = new AddPost(this.username);
        a.show();
        dispose();
    }

    private void jButton_TrendingActionPerformed(java.awt.event.ActionEvent evt) {

        Trending t = new Trending(this.username);
        t.show();
        dispose();
    }

```

```

    private void
jButton_SettingsActionPerformed(java.awt.event.ActionEvent evt) {

    Settings s = new Settings(this.username);
    s.show();
    dispose();
}

    private void
jButton_ProfileActionPerformed(java.awt.event.ActionEvent evt) {

    Profile p = new Profile(this.username);
    p.show();
    dispose();
}

    private void
jButton_BooksActionPerformed(java.awt.event.ActionEvent evt) {

    BooksPage b = new BooksPage(this.username);
    b.show();
    dispose();
}

    private void
jButton_PostsActionPerformed(java.awt.event.ActionEvent evt) {

}

public void displayPosts() {
    JPanel_Post.removeAll();

    validate();
    repaint();
    jScrollPane_Posts.validate();

    try {
        Class.forName("oracle.jdbc.driver.OracleDriver");

        Connection con=DriverManager.getConnection(
            "jdbc:oracle:thin:@localhost:1521:xe","it175","sravya");

        Statement stmt=con.createStatement();
        ResultSet rs = stmt.executeQuery("SELECT * FROM
        POSTS ORDER BY TIME DESC");
    }
}

```

```

        while(rs.next()) {
            JLabel BookLabel = new JLabel();
            String bookname = rs.getString(1);
            String authorName = rs.getString(2);
            String genre = rs.getString(3);
            String review = rs.getString(4);
            Float rating = rs.getFloat(5);
            String username = rs.getString(7);

            Blob b = rs.getBlob(6);
            byte barr[] = b.getBytes(1,(int)b.length());
            ImageIcon icon = new ImageIcon(barr);
            java.awt.Image img = icon.getImage();
            java.awt.Image scale = img.getScaledInstance(200,
300,java.awt.Image.SCALE_SMOOTH);
            ImageIcon scaled = new ImageIcon(scale);
            BookLabel.setIcon(scaled);

            JPanel mainPanel = new JPanel();
            mainPanel.setBackground(new
java.awt.Color(43,37,56));
            JPanel PostsPanel = new javax.swing.JPanel();

            JScrollPane SummaryScrollPane = new
javax.swing.JScrollPane();
            JTextArea SummaryTextArea = new
javax.swing.JTextArea();
            JLabel bookNameLabel = new
javax.swing.JLabel();
            JLabel authorNameLabel = new
javax.swing.JLabel();
            JLabel genreLabel = new javax.swing.JLabel();
            JLabel RatingLabel = new javax.swing.JLabel();
            JLabel ReviewLabel = new javax.swing.JLabel();
            JTextField BookTextField = new
javax.swing.JTextField();
            JTextField AuthorTextField = new
javax.swing.JTextField();
            JTextField GenreTextField = new
javax.swing.JTextField();
            JTextField jTextField1 = new
javax.swing.JTextField();
            JLabel Usernamelabel = new javax.swing.JLabel();

```

```

        JTextField usernametextfield = new
        javax.swing.JTextField();

        usernametextfield.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
        usernametextfield.setPreferredSize(new java.awt.Dimension(886,
        345));

        usernametextfield.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
        usernametextfield.setPreferredSize(new java.awt.Dimension(886,
        345));

        PostsPanel.setBackground(new java.awt.Color(17,
        94, 111));

        SummaryTextArea.setBackground(new
        java.awt.Color(43, 37, 56));
        SummaryTextArea.setColumns(20);
        SummaryTextArea.setFont(new
        java.awt.Font("Malgun Gothic", 1, 14)); // NOI18N
        SummaryTextArea.setText(review);
        SummaryTextArea.setBorder(new EmptyBorder(5,
        5, 5, 5));
        SummaryTextArea.setForeground(new
        java.awt.Color(255, 255, 255));
        SummaryTextArea.setLineWrap(true);
        SummaryTextArea.setRows(5);
        SummaryTextArea.setWrapStyleWord(true);

        SummaryScrollPane.setViewportView(SummaryTextArea);
        SummaryScrollPane.setBorder(null);

        bookNameLabel.setFont(new
        java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
        bookNameLabel.setForeground(new
        java.awt.Color(255, 255, 255));
        bookNameLabel.setText("Book");

```

```

        authorNameLabel.setFont(new
            java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
        authorNameLabel.setForeground(new
            java.awt.Color(255, 255, 255));
        authorNameLabel.setText("Author");

        genreLabel.setFont(new    java.awt.Font("Malgun
Gothic", 1, 16)); // NOI18N
        genreLabel.setForeground(new
            java.awt.Color(255, 255, 255));
        genreLabel.setText("Genre");

        RatingLabel.setFont(new   java.awt.Font("Malgun
Gothic", 1, 16)); // NOI18N
        RatingLabel.setForeground(new
            java.awt.Color(255, 255, 255));
        RatingLabel.setText("Rating");

        ReviewLabel.setFont(new  java.awt.Font("Malgun
Gothic", 1, 16)); // NOI18N
        ReviewLabel.setForeground(new
            java.awt.Color(255, 255, 255));
        ReviewLabel.setText("Review");

        BookTextField.setFont(new
            java.awt.Font("Malgun Gothic", 1, 11)); // NOI18N
        BookTextField.setForeground(Color.WHITE);
        BookTextField.setBackground(new
            java.awt.Color(43, 37, 56));
        BookTextField.setText(bookname);
        BookTextField.setBorder(new EmptyBorder(5, 5,
5, 5));

        AuthorTextField.setFont(new
            java.awt.Font("Malgun Gothic", 1, 11)); // NOI18N
        AuthorTextField.setForeground(Color.WHITE);
        AuthorTextField.setBackground(new
            java.awt.Color(43, 37, 56));
        AuthorTextField.setText(authorName);
        AuthorTextField.setBorder(new  EmptyBorder(5,
5, 5, 5));

        GenreTextField.setFont(new
            java.awt.Font("Malgun Gothic", 1, 11)); // NOI18N
        GenreTextField.setForeground(Color.WHITE);

```

```

        GenreTextField.setBackground(new
java.awt.Color(43, 37, 56));
        GenreTextField.setText(genre);
        GenreTextField.setBorder(new EmptyBorder(5, 5,
5, 5));

        jTextField1.setFont(new java.awt.Font("Malgun
Gothic", 1, 37)); // NOI18N
        jTextField1.setHorizontalAlignment(JTextField.CENTER);
        jTextField1.setForeground(Color.WHITE);
        jTextField1.setBackground(new
java.awt.Color(43, 37, 56));
        jTextField1.setText(rating.toString());
        jTextField1.setBorder(new EmptyBorder(5, 5, 5,
5));
        jTextField1.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                }
            });
        });

        usernamelabel.setFont(new
java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
        usernamelabel.setForeground(new
java.awt.Color(255, 255, 255));
        usernamelabel.setText("Username");

        usernametextfield.setBackground(new
java.awt.Color(43, 37, 56));
        usernametextfield.setBorder(new EmptyBorder(0,
5, 0, 0));
        usernametextfield.setFont(new
java.awt.Font("Malgun Gothic", 1, 11)); // NOI18N
        usernametextfield.setForeground(new
java.awt.Color(255, 255, 255));
        usernametextfield.setPreferredSize(new
Dimension(285,21));
        usernametextfield.setText(username);

        javax.swing.GroupLayout PostsPanelLayout = new
javax.swing.GroupLayout(PostsPanel);
        PostsPanel.setLayout(PostsPanelLayout);
        PostsPanelLayout.setHorizontalGroup(

```

```

        PostsPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(PostsPanelLayout.createSequentialGroup()
            .addGap(52, 52, 52)
            .addComponent(BookLabel,
                javax.swing.GroupLayout.PREFERRED_SIZE, 200,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(60, 60, 60)

            .addGroup(PostsPanelLayout.createParallelGroup(
                javax.swing.GroupLayout.Alignment.LEADING,
                false)
                .addComponent(ReviewLabel)
            .addGroup(PostsPanelLayout.createSequentialGroup()

                .addGroup(PostsPanelLayout.createParallelGroup(
                    javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(bookNameLabel,
                        javax.swing.GroupLayout.PREFERRED_SIZE, 46,
                        javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(authorNameLabel)
                .addComponent(genreLabel)
                .addComponent(Usernamelabel))
                .addGap(30, 30, 30)

                .addGroup(PostsPanelLayout.createParallelGroup(
                    javax.swing.GroupLayout.Alignment.LEADING,
                    false)
                    .addGroup(PostsPanelLayout.createSequentialGroup()
                        .addComponent(AuthorTextField,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 285,
                            javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(GenreTextField,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 285,
                            javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGroup(PostsPanelLayout.createSequentialGroup()
                        .addGap(65, 65, 65)
                        .addComponent(jTextField1,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 74,
                            javax.swing.GroupLayout.PREFERRED_SIZE)))
            )
        )
    )

```

```

        .addComponent(usernametextfield,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE) 285,

        .addGroup(PostsPanelLayout.createSequentialGro
up())
        .addComponent(BookTextField,
javax.swing.GroupLayout.PREFERRED_SIZE, 285,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.Comp
onentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(RatingLabel)
        .addGap(11, 11, 11)))
        .addComponent(SummaryScrollPane))
        .addContainerGap(44, Short.MAX_VALUE))
);

PostsPanelLayout.setVerticalGroup(
PostsPanelLayout.createParallelGroup(javax.swin
g.GroupLayout.Alignment.LEADING)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
PostsPanelLayout.createSequentialGroup()
.addContainerGap(83, Short.MAX_VALUE)

        .addGroup(PostsPanelLayout.createParallelGroup(
javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
PostsPanelLayout.createSequentialGroup()

        .addGroup(PostsPanelLayout.createParallelGroup(
javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(PostsPanelLayout.createSequentialGroup()
up()

        .addGroup(PostsPanelLayout.createParallelGroup(
javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(Usernamelabel)
.addComponent(usernametextfield,
javax.swing.GroupLayout.PREFERRED_SIZE,

```

```

javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(PostsPanelLayout.createParallelGroup(
javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(bookNameLabel)
.addComponent(BookTextField,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(PostsPanelLayout.createParallelGroup(
javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(authorNameLabel)
.addComponent(AuthorTextField,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(PostsPanelLayout.createParallelGroup(
javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(genreLabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(GenreTextField,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))

.addGroup(PostsPanelLayout.createSequentialGroup()
.addGap(39, 39, 39)
.addComponent(RatingLabel)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

```

21,

```

        .addComponent(jTextField1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
55,
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(ReviewLabel)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(SummaryScrollPane,
javax.swing.GroupLayout.PREFERRED_SIZE,
125,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addComponent(BookLabel,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE,
300,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(28, 28, 28))
);
mainPanel.add(PostsPanel);
JLabel gap = new JLabel();
gap.setBackground(Color.WHITE);
mainPanel.add(gap);
jPanel_Post.add(mainPanel);
}
} catch (Exception e) {
System.out.println(e);
}
pack();
setPreferredSize(new Dimension(1000, 600));
jPanel_Post.setBackground(new
java.awt.Color(43,37,56));
setVisible(true);
}

private javax.swing.JButton jButton_AddPost;
private javax.swing.JButton jButton_Books;
private javax.swing.JButton jButton_Home;
private javax.swing.JButton jButton_Posts;
private javax.swing.JButton jButton_Profile;
private javax.swing.JButton jButton_Settings;
private javax.swing.JButton jButton_Trending;
private javax.swing.JLayeredPane jLayeredPane_PostsMain;
private javax.swing.JLayeredPane jLayeredPane_PostsSub;

```

```

        private javax.swing.JPanel jPanel_Post;
        private javax.swing.JPanel jPanel_Posts;
        private javax.swing.JPanel jPanel_Tabs;
        private javax.swing.JScrollPane jScrollPane_Posts;
    }

}

```

7.2.9. AddPost.java

```

package booktap;

import java.awt.Image;
import java.io.File;
import java.io.InputStream;
import java.sql.*;
import javax.swing.ImageIcon;
import javax.swing.JFileChooser;
import javax.swing.JOptionPane;
import javax.swing.border.EmptyBorder;
import javax.swing.filechooser.FileNameExtensionFilter;

public class AddPost extends javax.swing.JFrame {

    String image_path = null;
    String username;
    public AddPost(String u) {
        this.username = u;
        initComponents();
    }

    private void initComponents() {

        jPanel_AddPost = new javax.swing.JPanel();
        jPanel_Inner = new javax.swing.JPanel();
        jLabel_Author = new javax.swing.JLabel();
        jLabel_Name = new javax.swing.JLabel();
        jLabel_Review = new javax.swing.JLabel();
        jLabel_Genre = new javax.swing.JLabel();
        jLabel_Rating = new javax.swing.JLabel();
        jLabel_Image = new javax.swing.JLabel();
        jButton_Upload = new javax.swing.JButton();
        jLabelImagePath = new javax.swing.JLabel();
        jButton_Submit = new javax.swing.JButton();
        jTextField_Author = new javax.swing.JTextField();

```

```

jTextField_Rating = new javax.swing.JTextField();
jTextField_Genre = new javax.swing.JTextField();
jScrollPane1 = new javax.swing.JScrollPane();
jTextArea_Summary = new javax.swing.JTextArea();
jTextField_BookName = new javax.swing.JTextField();
jButton_GoBack = new javax.swing.JButton();
jLabel_UploadedImage = new javax.swing.JLabel();
jLabel_Title = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setTitle("NEW POST");
setPreferredSize(new java.awt.Dimension(1000, 600));
setSize(new java.awt.Dimension(1000, 600));

jPanel_AddPost.setBackground(new java.awt.Color(43, 37, 56));
jPanel_AddPost.setPreferredSize(new java.awt.Dimension(1000, 600));

jPanel_Inner.setBackground(new java.awt.Color(17, 94, 111));

jLabel_Author.setFont(new java.awt.Font("Malgun Gothic", 1, 14)); // NOI18N
jLabel_Author.setForeground(new java.awt.Color(255, 255, 255));
jLabel_Author.setText("Book author ");

jLabel_Name.setFont(new java.awt.Font("Malgun Gothic", 1, 14)); // NOI18N
jLabel_Name.setForeground(new java.awt.Color(255, 255, 255));
jLabel_Name.setText("Book name ");

jLabel_Review.setFont(new java.awt.Font("Malgun Gothic", 1, 14)); // NOI18N
jLabel_Review.setForeground(new java.awt.Color(255, 255, 255));
jLabel_Review.setText("Book review ");

jLabel_Genre.setFont(new java.awt.Font("Malgun Gothic", 1, 14)); // NOI18N
jLabel_Genre.setForeground(new java.awt.Color(255, 255, 255));
jLabel_Genre.setText("Genre ");

```

```

        jLabel_Rating.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
        jLabel_Rating.setForeground(new java.awt.Color(255, 255,
255));
        jLabel_Rating.setText("Rating ");

        jLabel_Image.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
        jLabel_Image.setForeground(new java.awt.Color(255, 255, 255));
        jLabel_Image.setText("Image");

        jButton_Upload.setBackground(new java.awt.Color(255, 182,
28));
        jButton_Upload.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
        jButton_Upload.setForeground(new java.awt.Color(43, 37, 56));
        jButton_Upload.setText("Upload");
        jButton_Upload.setBorder(null);
        jButton_Upload.setFocusPainted(false);
        jButton_Upload.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jButton_UploadActionPerformed(evt);
            }
        });
    });

    jLabelImagePath.setFont(new java.awt.Font("Dialog", 0, 12)); // NOI18N
    jLabelImagePath.setForeground(new java.awt.Color(255, 255,
255));
    jLabelImagePath.setText("image path");

    jButton_Submit.setBackground(new java.awt.Color(255, 182,
28));
    jButton_Submit.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
    jButton_Submit.setForeground(new java.awt.Color(43, 37, 56));
    jButton_Submit.setText("Submit");
    jButton_Submit.setBorder(null);
    jButton_Submit.setFocusPainted(false);
    jButton_Submit.addActionListener(new
java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent
evt) {

```

```

                jButton_SubmitActionPerformed(evt);
            }
        });

        jTextField_Author.setBackground(new java.awt.Color(43, 37,
56));
        jTextField_Author.setFont(new java.awt.Font("Malgun Gothic",
1, 12)); // NOI18N
        jTextField_Author.setForeground(new java.awt.Color(255, 255,
255));

        jTextField_Author.setBorder(javax.swing.BorderFactory.createE
mptyBorder(1, 5, 1, 1));
        jTextField_Author.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jTextField_AuthorActionPerformed(evt);
            }
        });

        jTextField_Rating.setBackground(new java.awt.Color(43, 37,
56));
        jTextField_Rating.setFont(new java.awt.Font("Malgun Gothic",
1, 12)); // NOI18N
        jTextField_Rating.setForeground(new java.awt.Color(255, 255,
255));

        jTextField_Rating.setBorder(javax.swing.BorderFactory.createE
mptyBorder(1, 5, 1, 1));
        jTextField_Rating.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jTextField_RatingActionPerformed(evt);
            }
        });

        jTextField_Genre.setBackground(new java.awt.Color(43, 37,
56));
        jTextField_Genre.setFont(new java.awt.Font("Malgun Gothic", 1,
12)); // NOI18N
        jTextField_Genre.setForeground(new java.awt.Color(255, 255,
255));
    }
}

```

```

jTextField_Genre.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 5, 1, 1));
jTextField_Genre.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField_GenreActionPerformed(evt);
    }
});

jTextArea_Summary.setBackground(new java.awt.Color(43, 37, 56));
jTextArea_Summary.setColumns(20);
jTextArea_Summary.setFont(new java.awt.Font("Malgun Gothic", 1, 12)); // NOI18N
jTextArea_Summary.setForeground(new java.awt.Color(255, 255, 255));
jTextArea_Summary.setLineWrap(true);
jTextArea_Summary.setRows(5);
jTextArea_Summary.setWrapStyleWord(true);

jTextArea_Summary.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 5, 1, 1));
jScrollPane1.setViewportView(jTextArea_Summary);

jTextField_BookName.setBackground(new java.awt.Color(43, 37, 56));
jTextField_BookName.setFont(new java.awt.Font("Malgun Gothic", 1, 12)); // NOI18N
jTextField_BookName.setForeground(new java.awt.Color(255, 255, 255));

jTextField_BookName.setBorderStyle(javax.swing.BorderFactory.createEmptyBorder(1, 5, 1, 1));
jTextField_BookName.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField_BookNameActionPerformed(evt);
    }
});

jButton_GoBack.setBackground(new java.awt.Color(255, 182, 28));

```



```

        .addComponent(jLabel_Image,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(57, 57, 57)

        .addGroup(jPanel_InnerLayout.createParallelGroup(javax.swing.
GroupLayout.Alignment.LEADING)
        .addComponent(jTextField_BookName,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jTextField_Author,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jTextField_Genre,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jTextField_Rating,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabelImagePath,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jButton_Upload,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addComponent(jLabel_Name)
        .addComponent(jLabel_Title,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel_Author)
        .addComponent(jLabel_Genre))

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
.RELATED, 28, Short.MAX_VALUE))
        .addGroup(jPanel_InnerLayout.createSequentialGroup()
        .addGap(25, 25, 25)
        .addComponent(jButton_GoBack,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement

```

95,
262,
262,
262,
262,
262,
330,
80,
250,
83,
91

```

.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
.addComponent(jButton_Submit,
javax.swing.GroupLayout.PREFERRED_SIZE, 80,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(98, 98, 98)))
.addComponent(jLabel_UploadedImage,
javax.swing.GroupLayout.PREFERRED_SIZE, 312,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(67, 67, 67))
);
jPanel_InnerLayout.setVerticalGroup(

```

312,

```

jPanel_InnerLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel_InnerLayout.createSequentialGroup()
.addComponent(jLabel_Title,
javax.swing.GroupLayout.PREFERRED_SIZE, 42,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(28, 28, 28)

```

42,

```

.addGroup(jPanel_InnerLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jPanel_InnerLayout.createSequentialGroup()
.addComponent(jLabel_Name)
.addGap(25, 25, 25)

```

```

.addGroup(jPanel_InnerLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(jLabel_Author)
.addComponent(jTextField_Author,
javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)))
.addComponent(jTextField_BookName,
javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(18, 18, 18)

```

30,

```

.addGroup(jPanel_InnerLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jLabel_Genre)
.addComponent(jTextField_Genre,
javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE))

```

30,

```

.addGroup(jPanel_InnerLayout.createParallelGroup(javax.swing.
    GroupLayout.Alignment.LEADING)
.addGroup(jPanel_InnerLayout.createSequentialGroup()
.addGap(18, 18, 18)
.addComponent(jScrollPane1,
    javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE,
    javax.swing.GroupLayout.PREFERRED_SIZE))
.addGroup(jPanel_InnerLayout.createSequentialGroup()
.addGap(29, 29, 29)
.addComponent(jLabel_Review)))
.addGap(18, 18, 18)

.addGroup(jPanel_InnerLayout.createParallelGroup(javax.swing.
    GroupLayout.Alignment.BASELINE)
.addComponent(jTextField_Rating,
    javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.PREFERRED_SIZE) 30,
.addComponent(jLabel_Rating))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
    .RELATED,      javax.swing.GroupLayout.DEFAULT_SIZE,
    Short.MAX_VALUE)

.addGroup(jPanel_InnerLayout.createParallelGroup(javax.swing.
    GroupLayout.Alignment.LEADING)
.addComponent(jLabel_Image,
    javax.swing.GroupLayout.Alignment.TRAILING)
.addComponent(jButton_Upload,
    javax.swing.GroupLayout.Alignment.TRAILING,
    javax.swing.GroupLayout.PREFERRED_SIZE, 32,
    javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
    .UNRELATED)
.addComponent(jLabelImagePath)
.addGap(26, 26, 26)

.addGroup(jPanel_InnerLayout.createParallelGroup(javax.swing.
    GroupLayout.Alignment.BASELINE)
.addComponent(jButton_GoBack,
    javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.PREFERRED_SIZE) 35,
    javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addComponent(jButton_Submit,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(20, 20, 20))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel_InnerLayout.createSequentialGroup()
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(jLabel_UploadedImage,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap())
);

```

35,

```

javax.swing.GroupLayout jPanel_AddPostLayout = new
javax.swing.GroupLayout(jPanel_AddPost);
jPanel_AddPost.setLayout(jPanel_AddPostLayout);
jPanel_AddPostLayout.setHorizontalGroup(
jPanel_AddPostLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel_AddPostLayout.createSequentialGroup()
            .addGap(30, 30, 30)
            .addComponent(jPanel_Inner,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(45, Short.MAX_VALUE)))
);
jPanel_AddPostLayout.setVerticalGroup(
jPanel_AddPostLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel_AddPostLayout.createSequentialGroup()
            .addGap(30, 30, 30)
            .addComponent(jPanel_Inner,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(65, Short.MAX_VALUE)))
);

```

486,

```

javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(

```

505,

```

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
        LEADING)
        .addGroup(layout.createSequentialGroup()
        .addComponent(jPanel_AddPost,
        javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.DEFAULT_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 20, Short.MAX_VALUE))
        );
        layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
        LEADING)
        .addComponent(jPanel_AddPost,
        javax.swing.GroupLayout.Alignment.TRAILING,
        javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.DEFAULT_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        pack();
        setLocationRelativeTo(null);
    }

    private void jTextField_BookNameActionPerformed(java.awt.event.ActionEvent evt) {
    }

    private void jTextField_RatingActionPerformed(java.awt.event.ActionEvent evt) {
    }

    private void jTextField_AuthorActionPerformed(java.awt.event.ActionEvent evt) {
    }

    private void jTextField_GenreActionPerformed(java.awt.event.ActionEvent evt) {
    }

```

```

private void jButton_UploadActionPerformed(java.awt.event.ActionEvent evt) {

    try{
        JFileChooser chooser = new JFileChooser();
        chooser.setCurrentDirectory(new File(System.getProperty("user.home")));
        FileNameExtensionFilter extension = new FileNameExtensionFilter("*Images",".png",".jpg",".jpeg");
        chooser.addChoosableFileFilter(extension);

        int filestate = chooser.showSaveDialog(null);
        if(filestate == JFileChooser.APPROVE_OPTION)
        {
            File selectedImage = chooser.getSelectedFile();
            image_path = selectedImage.getAbsolutePath();
            if(image_path.endsWith(".jpeg") || image_path.endsWith(".jpg") || image_path.endsWith(".png")){
                jLabelImagePath.setText(image_path);
                Image getAbsolutePath = null;
                ImageIcon icon = new ImageIcon(image_path);
                Image image = icon.getImage().getScaledInstance(jLabel_UploadedImage.getWidth(),
                jLabel_UploadedImage.getHeight(), Image.SCALE_SMOOTH);
                jLabel_UploadedImage.setIcon(icon);
                JOptionPane.showMessageDialog(this,
                "Image uploaded successfully!");
            }
            else{
                JOptionPane.showMessageDialog(this,
                "Invalid file format.");
            }
        }
    }
    catch(Exception e){
        JOptionPane.showMessageDialog(null,e);
    }
}

private void jButton_SubmitActionPerformed(java.awt.event.ActionEvent evt) {

```

```

String bookName = jTextField_BookName.getText();
String bookAuthor = jTextField_Author.getText();
String bookGenre = jTextField_Genre.getText();
String bookRating = jTextField_Rating.getText();
String bookSummary = jTextArea_Summary.getText();
if(bookName.trim().equals("") || bookAuthor.trim().equals("") ||
bookGenre.trim().equals("") || bookRating.trim().equals("")){
    JOptionPane.showMessageDialog(this, "Please enter all
details.");
}
else{
    try{
        Float rating = Float.parseFloat(bookRating);
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","it
175","sravya");
        PreparedStatement pstmt =
con.prepareStatement("INSERT INTO POSTS(Name, Author, Genre,
Review, Rating, Image, Username, Time) VALUES(?,?,?,?,?,?,
?,?)");
        pstmt.setString(1, bookName);
        pstmt.setString(2, bookAuthor);
        pstmt.setString(3, bookGenre);
        pstmt.setString(4, bookSummary);
        pstmt.setFloat(5, rating);
        FileInputStream in =
new
FileInputStream(image_path);
        pstmt.setBinaryStream(6,in,in.available());
        pstmt.setString(7, username);
        Timestamp t =
new
Timestamp(System.currentTimeMillis());
        pstmt.setTimestamp(8, t);
        pstmt.execute();

        JOptionPane.showMessageDialog(this,"Success!");
    ;
    }
    catch(Exception e){
        JOptionPane.showMessageDialog(this,e);
    }
}
}

```

```

private void
jButton_GoBackActionPerformed(java.awt.event.ActionEvent evt) {

    Posts p = new Posts(this.username);
    p.show();
    dispose();
}
private javax.swing.JButton jButton_GoBack;
private javax.swing.JButton jButton_Submit;
private javax.swing.JButton jButton_Upload;
private javax.swing.JLabel jLabel_Author;
private javax.swing.JLabel jLabel_Genre;
private javax.swing.JLabel jLabel_Image;
private javax.swing.JLabel jLabelImagePath;
private javax.swing.JLabel jLabel_Name;
private javax.swing.JLabel jLabel_Rating;
private javax.swing.JLabel jLabel_Review;
private javax.swing.JLabel jLabel_Title;
private javax.swing.JLabel jLabel_UnderlineImage;
private javax.swing.JPanel jPanel_AddPost;
private javax.swing.JPanel jPanel_Inner;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTextArea jTextArea_Summary;
private javax.swing.JTextField jTextField_Author;
private javax.swing.JTextField jTextField_BookName;
private javax.swing.JTextField jTextField_Genre;
private javax.swing.JTextField jTextField_Rating;

}

}

```

7.2.10. Trending.java

```

package booktap;

public class Trending extends javax.swing.JFrame {

    String username;
    public Trending(String u) {
        this.username = u;
        initComponents();
    }
    private void initComponents() {

```

```
jScrollPane1 = new javax.swing.JScrollPane();
jLayeredPane1 = new javax.swing.JLayeredPane();
jPanel1 = new javax.swing.JPanel();
jLayeredPane2 = new javax.swing.JLayeredPane();
jPanel2 = new javax.swing.JPanel();
jButton_Home = new javax.swing.JButton();
jButton_Books = new javax.swing.JButton();
jButton_Posts = new javax.swing.JButton();
jButton_Trending = new javax.swing.JButton();
jButton_Settings = new javax.swing.JButton();
jLabel1 = new javax.swing.JLabel();
jButton_Fiction = new javax.swing.JButton();
jLabel2 = new javax.swing.JLabel();
jButton_Adventure = new javax.swing.JButton();
jLabel3 = new javax.swing.JLabel();
jButton_Romance = new javax.swing.JButton();
jButton_Poetry = new javax.swing.JButton();
jLabel6 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
jButton_Classics = new javax.swing.JButton();
jLabel5 = new javax.swing.JLabel();
jButton_NonFiction = new javax.swing.JButton();
jLabel7 = new javax.swing.JLabel();
jButton_Horror = new javax.swing.JButton();
jLabel8 = new javax.swing.JLabel();
jButton_Mystery = new javax.swing.JButton();
jLabel9 = new javax.swing.JLabel();
jButton_Fantasy = new javax.swing.JButton();
jButton_Profile = new javax.swing.JButton();
```

```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setTitle("TRENDING");
setSize(new java.awt.Dimension(1000, 600));
```

```
jPanel1.setBackground(new java.awt.Color(43, 37, 56));
```

```
javax.swing.GroupLayout jLayeredPane2Layout = new javax.swing.GroupLayout(jLayeredPane2);
jLayeredPane2.setLayout(jLayeredPane2Layout);
jLayeredPane2Layout.setHorizontalGroup(
```

```
jLayeredPane2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```

.addGap(0, 879, Short.MAX_VALUE)
);
jLayeredPane2Layout.setVerticalGroup(
jLayeredPane2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGap(0, 1191, Short.MAX_VALUE)
);

jPanel2.setBackground(new java.awt.Color(17, 94, 111));

jButton_Home.setBackground(new java.awt.Color(255, 182,
28));
jButton_Home.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
jButton_Home.setText("Home");
jButton_Home.setBorder(null);
jButton_Home.setFocusPainted(false);
jButton_Home.addActionListener(new
java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent
evt) {
        jButton_HomeActionPerformed(evt);
    }
});
jButton_HomeActionPerformed(evt);

jButton_Books.setBackground(new java.awt.Color(255, 182,
28));
jButton_Books.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
jButton_Books.setText("Books");
jButton_Books.setBorder(null);
jButton_Books.setFocusPainted(false);
jButton_Books.addActionListener(new
java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent
evt) {
        jButton_BooksActionPerformed(evt);
    }
});
jButton_BooksActionPerformed(evt);

jButton_Posts.setBackground(new java.awt.Color(255, 182, 28));
jButton_Posts.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
jButton_Posts.setText("Posts");

```

```

        jButton_Posts.setBorder(null);
        jButton_Posts.setFocusPainted(false);
        jButton_Posts.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jButton_PostsActionPerformed(evt);
            }
        });
    });

    jButton_Trending.setBackground(new java.awt.Color(255, 182,
28));
    jButton_Trending.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
    jButton_Trending.setText("Trending");
    jButton_Trending.setBorder(null);
    jButton_Trending.setFocusPainted(false);
    jButton_Trending.addActionListener(new
java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            jButton_TrendingActionPerformed(evt);
        }
    });
});

    jButton_Settings.setBackground(new java.awt.Color(255, 182,
28));
    jButton_Settings.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
    jButton_Settings.setText("Settings");
    jButton_Settings.setBorder(null);
    jButton_Settings.setFocusPainted(false);
    jButton_Settings.addActionListener(new
java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            jButton_SettingsActionPerformed(evt);
        }
    });
});

jLabel1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/genres/fiction.jpeg")));
// NOI18N

```

```

        jButton_Fiction.setBackground(new java.awt.Color(251, 120,
74));
        jButton_Fiction.setFont(new java.awt.Font("Malgun Gothic", 1,
12)); // NOI18N
        jButton_Fiction.setForeground(new java.awt.Color(43, 37, 56));
        jButton_Fiction.setText("TOP 3 FICTION");
        jButton_Fiction.setBorder(null);
        jButton_Fiction.setFocusPainted(false);
        jButton_Fiction.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jButton_FictionActionPerformed(evt);
            }
        });
    });

    jLabel2.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/genres/adv.jpeg"))); // NOI18N

    jButton_Adventure.setBackground(new java.awt.Color(251, 120,
74));
    jButton_Adventure.setFont(new java.awt.Font("Malgun Gothic",
1, 12)); // NOI18N
    jButton_Adventure.setForeground(new java.awt.Color(43, 37,
56));
    jButton_Adventure.setText("TOP 3 ADVENTURE");
    jButton_Adventure.setBorder(null);
    jButton_Adventure.setFocusPainted(false);
    jButton_Adventure.addActionListener(new
java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            jButton_AdventureActionPerformed(evt);
        }
    });
}

jLabel3.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/genres/romance.jpeg")))
; // NOI18N

    jButton_Romance.setBackground(new java.awt.Color(251, 120,
74));
    jButton_Romance.setFont(new java.awt.Font("Malgun Gothic",
1, 12)); // NOI18N

```

```

        jButton_Romance.setForeground(new java.awt.Color(43, 37,
56));
        jButton_Romance.setText("TOP 3 ROMANCE");
        jButton_Romance.setBorder(null);
        jButton_Romance.setFocusPainted(false);
        jButton_Romance.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jButton_RomanceActionPerformed(evt);
            }
        });
    });

    jButton_Poetry.setBackground(new java.awt.Color(251, 120,
74));
    jButton_Poetry.setFont(new java.awt.Font("Malgun Gothic", 1,
12)); // NOI18N
    jButton_Poetry.setForeground(new java.awt.Color(43, 37, 56));
    jButton_Poetry.setText("TOP 3 POETRY");
    jButton_Poetry.setBorder(null);
    jButton_Poetry.setFocusPainted(false);
    jButton_Poetry.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jButton_PoetryActionPerformed(evt);
            }
        });
    });

    jLabel6.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/genres/drama.jpeg"))); // NOI18N

    jLabel4.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/genres/class.jpeg"))); // NOI18N

    jButton_Classics.setBackground(new java.awt.Color(251, 120,
74));
    jButton_Classics.setFont(new java.awt.Font("Malgun Gothic", 1,
12)); // NOI18N
    jButton_Classics.setForeground(new java.awt.Color(43, 37, 56));
    jButton_Classics.setText("TOP 3 CLASSICS");
    jButton_Classics.setBorder(null);
    jButton_Classics.setFocusPainted(false);

```

```

        jButton_Classics.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jButton_ClassicsActionPerformed(evt);
            }
        });
    });

    jLabel5.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/genres/non-
fiction.jpg"))); // NOI18N
    jLabel5.setText("jLabel5");

    jButton_NonFiction.setBackground(new java.awt.Color(251,
120, 74));
    jButton_NonFiction.setFont(new java.awt.Font("Malgun Gothic",
1, 12)); // NOI18N
    jButton_NonFiction.setForeground(new java.awt.Color(43, 37,
56));
    jButton_NonFiction.setText("TOP 3 NON-FICTION");
    jButton_NonFiction.setBorder(null);
    jButton_NonFiction.setFocusPainted(false);
    jButton_NonFiction.addActionListener(new
java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            jButton_NonFictionActionPerformed(evt);
        }
    });
}

jLabel7.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/genres/horror.jpeg"))); // NOI18N

    jButton_Horror.setBackground(new java.awt.Color(251, 120,
74));
    jButton_Horror.setFont(new java.awt.Font("Malgun Gothic", 1,
12)); // NOI18N
    jButton_Horror.setForeground(new java.awt.Color(43, 37, 56));
    jButton_Horror.setText("TOP 3 HORROR");
    jButton_Horror.setBorder(null);
    jButton_Horror.setFocusPainted(false);
    jButton_Horror.addActionListener(new
java.awt.event.ActionListener() {

```

```

        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            jButton_HorrorActionPerformed(evt);
        }
    });

    jLabel8.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/genres/thriller.jpeg")));
// NOI18N

    jButton_Mystery.setBackground(new java.awt.Color(251, 120,
74));
    jButton_Mystery.setFont(new java.awt.Font("Malgun Gothic", 1,
12)); // NOI18N
    jButton_Mystery.setForeground(new java.awt.Color(43, 37, 56));
    jButton_Mystery.setText("TOP 3 MYSTERY");
    jButton_Mystery.setBorder(null);
    jButton_Mystery.setFocusPainted(false);
    jButton_Mystery.addActionListener(new
java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent
evt) {
            jButton_MysteryActionPerformed(evt);
        }
    });
}

    jLabel9.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/genres/fantasy.jpeg")));
// NOI18N

    jButton_Fantasy.setBackground(new java.awt.Color(251, 120,
74));
    jButton_Fantasy.setFont(new java.awt.Font("Malgun Gothic", 1,
12)); // NOI18N
    jButton_Fantasy.setForeground(new java.awt.Color(43, 37, 56));
    jButton_Fantasy.setText("TOP 3 FANTASY");
    jButton_Fantasy.setBorder(null);
    jButton_Fantasy.setFocusPainted(false);
    jButton_Fantasy.addActionListener(new
java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton_FantasyActionPerformed(evt);
        }
    });
}

```

```

        jButton_Profile.setBackground(new java.awt.Color(255,
182, 28));
        jButton_Profile.setFont(new java.awt.Font("Malgun
Gothic", 1, 16)); // NOI18N
        jButton_Profile.setForeground(new java.awt.Color(43, 37,
56));
        jButton_Profile.setText("Profile");
        jButton_Profile.setBorder(null);
        jButton_Profile.setFocusPainted(false);
        jButton_Profile.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                jButtonProfileActionPerformed(evt);
            }
        });
    });

    javax.swing.GroupLayout jPanel2Layout = new
javax.swing.GroupLayout(jPanel2);
    jPanel2.setLayout(jPanel2Layout);
    jPanel2Layout.setHorizontalGroup(
        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel2Layout.createSequentialGroup()
                    .addComponent(jButton_Fiction,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(108, 108, 108)
                    .addComponent(jButton_Adventure,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(jPanel2Layout.createSequentialGroup()
                    .addGap(131, 131, 131)
                    .addComponent(jButton_Adventure,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(161, 161, 161)
                    .addComponent(jButton_Romance,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGap(118, 118, 118)
            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel2Layout.createSequentialGroup()
                    .addGap(64, 64, 64)
                    .addComponent(jButton_Romance,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(jPanel2Layout.createSequentialGroup()
                    .addGap(35, 35, 35)
                    .addComponent(jButton_Romance,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGap(35, 35, 35)
        )
    );
}

```



```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                Short.MAX_VALUE)
.addComponent(jLabel2))

.addGroup(javax.swing.GroupLayout.Alignment.LEADING,
        jPanel2Layout.createSequentialGroup()
        .addComponent(jLabel6,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addComponent(jLabel5,
javax.swing.GroupLayout.PREFERRED_SIZE, 200,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.LEADING,
        jPanel2Layout.createSequentialGroup()
        .addGap(50, 50, 50)
        .addComponent(jButton_Poetry,
javax.swing.GroupLayout.PREFERRED_SIZE, 100,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                Short.MAX_VALUE)
.addComponent(jButton_NonFiction,
javax.swing.GroupLayout.PREFERRED_SIZE, 131,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(32, 32, 32)))

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(90, 90, 90)
```

```

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(jLabel3,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jLabel9,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(140, 140, 140)
                .addComponent(jButton_Fantasy,
                    javax.swing.GroupLayout.PREFERRED_SIZE, 106,
                    javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                    .addGroup(jPanel2Layout.createSequentialGroup()
                        .addGap(90, 90, 90)
                        .addComponent(jLabel7,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 200,
                            javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGroup(jPanel2Layout.createSequentialGroup()
                        .addGap(80, 80, 80)
                        .addComponent(jButton_Classics,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 110,
                            javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGap(23, 23, 23))
                .addGroup(jPanel2Layout.createSequentialGroup()
                    .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.RELATED, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jButton_Mystery,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 109,
                            javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGroup(jPanel2Layout.createSequentialGroup()
                        .addGap(178, 178, 178)
                        .addComponent(jButton_Horror,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 110,
                            javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGap(70, 70, 70)))
            );
        jPanel2Layout.setVerticalGroup(
            jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

.addGroup(jPanel2Layout.createSequentialGroup()
.addGap(22, 22, 22)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(jButton_Home,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jButton_Books,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jButton_Posts,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jButton_Trending,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jButton_Settings,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jButton_Profile,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(51, 51, 51)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jLabel11)
.addComponent(jLabel12)
.addComponent(jLabel13))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
.addComponent(jButton_Fiction,
javax.swing.GroupLayout.DEFAULT_SIZE, 27, Short.MAX_VALUE)
.addComponent(jButton_Adventure,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(jButton_Romance,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
.addGap(50, 50, 50)

```

```

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
.addGroup(jPanel2Layout.createSequentialGroup()
.addComponent(jLabel9)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addComponent(jButton_Fantasy,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)) 28,

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
.addGroup(jPanel2Layout.createSequentialGroup()
.addComponent(jLabel6)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addComponent(jButton_Poetry,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)) 27,

.addGroup(javax.swing.GroupLayout.Alignment.LEADING, jPanel2Layout.createSequentialGroup()
.addComponent(jLabel5)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addComponent(jButton_NonFiction,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
.addGap(50, 50, 50)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jLabel4)
.addComponent(jLabel7)
.addComponent(jLabel8))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addComponent(jButton_Leading,
javax.swing.GroupLayout.Alignment.LEADING) 26

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jButton_Trailing)
.addComponent(jButton_Sequential)
.addComponent(jButton_Parallel))

```



```

        .addComponent(jLayeredPane2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(31, 31, 31)
        .addComponent(jPanel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addContainerGap(89, Short.MAX_VALUE))
    );

jLayeredPane1.setLayer(jPanel1,
javax.swing.JLayeredPane.DEFAULT_LAYER);

        javax.swing.GroupLayout jLayeredPane1Layout = new
javax.swing.GroupLayout(jLayeredPane1);
        jLayeredPane1.setLayout(jLayeredPane1Layout);
        jLayeredPane1Layout.setHorizontalGroup(
        jLayeredPane1Layout.createParallelGroup(javax.swing.G
roupLayout.Alignment.LEADING)
        .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
        jLayeredPane1Layout.setVerticalGroup(
        jLayeredPane1Layout.createParallelGroup(javax.swing.G
roupLayout.Alignment.LEADING)
        .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );

jScrollPane1.setViewportView(jLayeredPane1);

        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addComponent(jScrollPane1,
javax.swing.GroupLayout.DEFAULT_SIZE, 1000, Short.MAX_VALUE)
);
layout.setVerticalGroup(
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jScrollPane1,
javax.swing.GroupLayout.DEFAULT_SIZE, 600, Short.MAX_VALUE)
);

pack();
setLocationRelativeTo(null);
}

private void jButton_HomeActionPerformed(java.awt.event.ActionEvent evt) {

    HomePage h = new HomePage(this.username);
    h.show();
    dispose();
}

private void jButton_PostsActionPerformed(java.awt.event.ActionEvent evt) {

    Posts p = new Posts(this.username);
    p.show();
    dispose();
}

private void jButton_SettingsActionPerformed(java.awt.event.ActionEvent evt) {

    Settings s = new Settings(this.username);
    s.show();
    dispose();
}

private void jButton_FictionActionPerformed(java.awt.event.ActionEvent evt) {

    String a = jButton_Fiction.getText();
    String genre = a.substring(6, 7) +
a.substring(7,a.length()).toLowerCase();
}

```

```

        new TrendList(genre,username).setVisible(true);
        setVisible(false);
    }

    private void
jButton_AdventureActionPerformed(java.awt.event.ActionEvent evt) {

    String a = jButton_Adventure.getText();
    String genre = a.substring(6, 7) +
a.substring(7,a.length()).toLowerCase();
    new TrendList(genre, username).setVisible(true);
    setVisible(false);
}

    private void
jButton_RomanceActionPerformed(java.awt.event.ActionEvent evt) {

    String a = jButton_Romance.getText();
    String genre = a.substring(6, 7) +
a.substring(7,a.length()).toLowerCase();
    new TrendList(genre, username).setVisible(true);
    setVisible(false);
}

    private void
jButton_PoetryActionPerformed(java.awt.event.ActionEvent evt) {

    String a = jButton_Poetry.getText();
    String genre = a.substring(6, 7) +
a.substring(7,a.length()).toLowerCase();
    new TrendList(genre,username).setVisible(true);
    setVisible(false);
}

    private void
jButton_NonFictionActionPerformed(java.awt.event.ActionEvent evt) {

    String a = jButton_NonFiction.getText();
    String genre = a.substring(6, 7) +
a.substring(7,a.length()).toLowerCase();
    new TrendList(genre,username).setVisible(true);
    setVisible(false);
}

```

```

    private void
jButton_FantasyActionPerformed(java.awt.event.ActionEvent evt) {

    String a = jButton_Fantasy.getText();
    String genre = a.substring(6, 7) +
a.substring(7,a.length()).toLowerCase();
    new TrendList(genre,username).setVisible(true);
    setVisible(false);
}

    private void
jButton_ClassicsActionPerformed(java.awt.event.ActionEvent evt) {

    String a = jButton_Classics.getText();
    String genre = a.substring(6, 7) +
a.substring(7,a.length()).toLowerCase();
    new TrendList(genre,username).setVisible(true);
    setVisible(false);
}

    private void
jButton_MysteryActionPerformed(java.awt.event.ActionEvent evt) {

    String a = jButton_Mystery.getText();
    String genre = a.substring(6, 7) +
a.substring(7,a.length()).toLowerCase();
    new TrendList(genre,username).setVisible(true);
    setVisible(false);
}

    private void
jButton_HorrorActionPerformed(java.awt.event.ActionEvent evt) {

    String a = jButton_Horror.getText();
    String genre = a.substring(6, 7) +
a.substring(7,a.length()).toLowerCase();
    new TrendList(genre,username).setVisible(true);
    setVisible(false);
}

    private void
jButton_BooksActionPerformed(java.awt.event.ActionEvent evt) {

    BooksPage b = new BooksPage(this.username);
    b.show();
}

```

```

        dispose();
    }

    private void jButton_ProfileActionPerformed(java.awt.event.ActionEvent evt) {

        Profile p = new Profile(this.username);
        p.show();
        dispose();
    }

    private void jButton_TrendingActionPerformed(java.awt.event.ActionEvent evt) {

    }

    private javax.swing.JButton jButton_Adventure;
    private javax.swing.JButton jButton_Books;
    private javax.swing.JButton jButton_Classics;
    private javax.swing.JButton jButton_Fantasy;
    private javax.swing.JButton jButton_Fiction;
    private javax.swing.JButton jButton_Home;
    private javax.swing.JButton jButton_Horror;
    private javax.swing.JButton jButton_Mystery;
    private javax.swing.JButton jButton_NonFiction;
    private javax.swing.JButton jButton_Poetry;
    private javax.swing.JButton jButton_Posts;
    private javax.swing.JButton jButton_Profile;
    private javax.swing.JButton jButton_Romance;
    private javax.swing.JButton jButton_Settings;
    private javax.swing.JButton jButton_Trending;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JLabel jLabel9;
    private javax.swing.JLayeredPane jLayeredPane1;
    private javax.swing.JLayeredPane jLayeredPane2;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JScrollPane jScrollPane1;

```

```
}
```

7.2.11. TrendList.java

```
package booktap;

import java.sql.Blob;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import javax.swing.ImageIcon;

public class TrendList extends javax.swing.JFrame {

    String username;

    public TrendList(String genre, String u) {
        this.username = u;
        initComponents();
        jLabel4.setText("Top 3 " + genre);
        retrieveImage(genre);
    }

    private void initComponents() {

        jLayeredPane1 = new javax.swing.JLayeredPane();
        jPanel1 = new javax.swing.JPanel();
        jLayeredPane2 = new javax.swing.JLayeredPane();
        jPanel2 = new javax.swing.JPanel();
        jButton1 = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("TOP 3");
        setPreferredSize(new java.awt.Dimension(1000, 600));
        setSize(new java.awt.Dimension(1000, 600));

        
```

```
jPanel1.setBackground(new java.awt.Color(43, 37, 56));  
  
jPanel2.setBackground(new java.awt.Color(17, 94, 111));  
  
jButton1.setBackground(new java.awt.Color(255, 182, 28));  
jButton1.setFont(new java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N  
jButton1.setForeground(new java.awt.Color(43, 37, 56));  
jButton1.setText("Go Back");  
jButton1.setBorder(null);  
jButton1.setFocusPainted(false);  
jButton1.addActionListener(new java.awt.event.ActionListener()  
{  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton1ActionPerformed(evt);  
    }  
});  
  
jLabel1.setBackground(new java.awt.Color(255, 255, 255));  
jLabel1.setText("jLabel1");  
  
jLabel2.setText("jLabel2");  
jLabel2.setPreferredSize(new java.awt.Dimension(200, 300));  
  
jLabel3.setText("jLabel3");  
jLabel3.setPreferredSize(new java.awt.Dimension(200, 300));  
  
jLabel4.setFont(new java.awt.Font("Malgun Gothic", 1, 24)); // NOI18N  
jLabel4.setForeground(new java.awt.Color(255, 255, 255));  
jLabel4.setText("jLabel4");  
  
javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  
jPanel2.setLayout(jPanel2Layout);  
jPanel2Layout.setHorizontalGroup(  
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(jPanel2Layout.createSequentialGroup()  
            .addGap(10, 10, 10)  
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 200, javax.swing.GroupLayout.PREFERRED_SIZE)  
            .addGap(10, 10, 10)  
            .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 200, javax.swing.GroupLayout.PREFERRED_SIZE)  
            .addGap(10, 10, 10)  
            .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 200, javax.swing.GroupLayout.PREFERRED_SIZE)  
            .addGap(10, 10, 10)  
            .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 200, javax.swing.GroupLayout.PREFERRED_SIZE)  
        )  
    ).addContainerGap());  
jPanel2Layout.setVerticalGroup(  
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(jPanel2Layout.createSequentialGroup()  
            .addGap(10, 10, 10)  
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 200, javax.swing.GroupLayout.PREFERRED_SIZE)  
            .addGap(10, 10, 10)  
            .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 200, javax.swing.GroupLayout.PREFERRED_SIZE)  
            .addGap(10, 10, 10)  
            .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 200, javax.swing.GroupLayout.PREFERRED_SIZE)  
            .addGap(10, 10, 10)  
            .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 200, javax.swing.GroupLayout.PREFERRED_SIZE)  
        )  
    ).addContainerGap());
```

```

        .addGap(105, 105, 105)
        .addComponent(jLabel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
.RELATED, 113, Short.MAX_VALUE)
        .addComponent(jLabel3,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(58, 58, 58))
        .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(35, 35, 35)
        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 93,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(jLabel4,
javax.swing.GroupLayout.PREFERRED_SIZE, 245,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(272, 272, 272))
);
jPanel2Layout.setVerticalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
        .addContainerGap(35, Short.MAX_VALUE)

        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Grou
pLayout.Alignment.BASELINE)
        .addComponent(jLabel11,
javax.swing.GroupLayout.PREFERRED_SIZE, 300,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel12,
javax.swing.GroupLayout.PREFERRED_SIZE,

```

```
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jLabel3,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(57, 57, 57)
.addComponent(jLabel4)
.addGap(4, 4, 4)
.addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(35, 35, 35))
);
```

35,

```
jLayeredPane2.setLayer(jPanel2,
javax.swing.JLayeredPane.DEFAULT_LAYER);
```

```
javax.swing.GroupLayout jLayeredPane2Layout = new
javax.swing.GroupLayout(jLayeredPane2);
jLayeredPane2.setLayout(jLayeredPane2Layout);
jLayeredPane2Layout.setHorizontalGroup(
```

```
jLayeredPane2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jLayeredPane2Layout.createSequentialGroup()
.addComponent(jPanel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(0, 28, Short.MAX_VALUE))
);
jLayeredPane2Layout.setVerticalGroup(
```

```
jLayeredPane2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jLayeredPane2Layout.createSequentialGroup()
.addComponent(jPanel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(0, 64, Short.MAX_VALUE))
);
```

```
javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jPanel1Layout.createSequentialGroup()
.addGap(30, 30, 30)
.addComponent(jPanel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
);
jPanel1Layout.setVerticalGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jPanel1Layout.createSequentialGroup()
.addGap(35, 35, 35)
.addComponent(jPanel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addContainerGap(26, Short.MAX_VALUE))
);
jLayeredPane1.setLayer(jPanel1,
javax.swing.JLayeredPane.DEFAULT_LAYER);

javax.swing.GroupLayout jLayeredPane1Layout = new
javax.swing.GroupLayout(jLayeredPane1);
jLayeredPane1.setLayout(jLayeredPane1Layout);
jLayeredPane1Layout.setHorizontalGroup(jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
jLayeredPane1Layout.setVerticalGroup(jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jPanel1Layout.createSequentialGroup()
.addGap(30, 30, 30)
.addComponent(jPanel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addContainerGap(35, 35, 35)
.addComponent(jPanel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addContainerGap(26, Short.MAX_VALUE))
);
```

```

jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel1,
    javax.swing.GroupLayout.DEFAULT_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE
);

        javax.swing.GroupLayout layout = new
        javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
        LEADING)
        .addComponent(jLayeredPane1)
        );
        layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
        LEADING)
        .addComponent(jLayeredPane1)
        );

        pack();
        setLocationRelativeTo(null);
    }

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)
{
    Trending t = new Trending(this.username);
    t.show();
    dispose();
}

public void retrieveImage(String genre){
    String [] array = new String[30];
    int i = 0;
    try{
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con =
        DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","it
        175","sravya");
    }
}

```

```

String query = " SELECT * FROM TRENDING WHERE
GENRE = '" + genre + "' ";
PreparedStatement ps = con.prepareStatement(query);
ResultSet rs = ps.executeQuery();
while(rs.next()){
    array[i] = rs.getString(1);
    i++;
}

String p = array[0];
String s = " SELECT * FROM TRENDING WHERE
NAME = '" + p + "' ";
PreparedStatement ps1 = con.prepareStatement(s);
ResultSet rs1 = ps1.executeQuery();
if(rs1.next()){
    Blob b = rs1.getBlob(5);
    byte barr[] = b.getBytes(1,(int)b.length());
    ImageIcon icon = new ImageIcon(barr);
    java.awt.Image img = icon.getImage();
    java.awt.Image scale = img.getScaledInstance(jLabel1.getWidth(),
jLabel1.getHeight(),java.awt.Image.SCALE_SMOOTH);
    ImageIcon scaled = new ImageIcon(scale);
    jLabel1.setIcon(scaled);
}

String q = array[1];
String t = " SELECT * FROM TRENDING WHERE
NAME = '" + q + "' ";
PreparedStatement ps2 = con.prepareStatement(t);
ResultSet rs2 = ps2.executeQuery();
if(rs2.next()){
    Blob b1 = rs2.getBlob(5);
    byte barr[] = b1.getBytes(1,(int)b1.length());
    ImageIcon icon = new ImageIcon(barr);
    java.awt.Image img = icon.getImage();
    java.awt.Image scale = img.getScaledInstance(jLabel2.getWidth(),
jLabel2.getHeight(),java.awt.Image.SCALE_SMOOTH);
    ImageIcon scaled = new ImageIcon(scale);
    jLabel2.setIcon(scaled);
}

String r = array[2];

```

```

        String u = " SELECT * FROM TRENDING
WHERE NAME = '" + r + "' ";
        PreparedStatement ps3 = con.prepareStatement(u);
        ResultSet rs3 = ps3.executeQuery();
        if(rs3.next()){
            Blob b2 = rs3.getBlob(5);
            byte barr[] = b2.getBytes(1,(int)b2.length());
            ImageIcon icon = new ImageIcon(barr);
            java.awt.Image img = icon.getImage();
            java.awt.Image scale = img.getScaledInstance(jLabel1.getWidth(),
                jLabel1.getHeight(),java.awt.Image.SCALE_SMOOTH);
            ImageIcon scaled = new ImageIcon(scale);
            jLabel3.setIcon(scaled);
        }
        con.close();
    }
    catch (Exception e) {
        e.printStackTrace();
    }
}

private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLayeredPane jLayeredPane1;
private javax.swing.JLayeredPane jLayeredPane2;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
}

```

7.2.12. Profile.java

```

package booktap;

import javax.swing.*;
import java.awt.*;
import java.sql.*;
import javax.swing.border.*;

```

```

public class Profile extends javax.swing.JFrame {
    String username;

```

```

public Profile(String u) {
    this.username = u;
    initComponents();
}

private void initComponents() {

    scrollpane = new javax.swing.JScrollPane();
    outerlayeredpane = new javax.swing.JLayeredPane();
    outerpanel = new javax.swing.JPanel();
    innerlayeredpane = new javax.swing.JLayeredPane();
    innerpanel = new javax.swing.JPanel();
    Homebutton = new javax.swing.JButton();
    Booksbutton = new javax.swing.JButton();
    Postsbutton = new javax.swing.JButton();
    Trendingbutton = new javax.swing.JButton();
    Profileslabel = new javax.swing.JLabel();
    captionlabel = new javax.swing.JLabel();
    Gobackbutton = new javax.swing.JButton();
    usernamelabel = new javax.swing.JLabel();
    Emaillabel = new javax.swing.JLabel();
    usernametextfield = new javax.swing.JTextField();
    Emailtextfield = new javax.swing.JTextField();
    firstnamelabel = new javax.swing.JLabel();
    lastnamelabel = new javax.swing.JLabel();
    lastnametextfield = new javax.swing.JTextField();
    yourdetailspanel = new javax.swing.JPanel();
    yourdetailslabel = new javax.swing.JLabel();
    firstnametextfield = new javax.swing.JTextField();
    jButton1 = new javax.swing.JButton();
    jPanel2 = new javax.swing.JPanel();
    yourdetailspanel1 = new javax.swing.JPanel();
    yourdetailslabel1 = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTextArea1 = new javax.swing.JTextArea();
    jPanel1 = new javax.swing.JPanel();
    jPanel3 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jScrollPane2 = new javax.swing.JScrollPane();
    jPanel4 = new javax.swing.JPanel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
}

```

```

setTitle("PROFILE");

outerpanel.setBackground(new java.awt.Color(43, 37, 56));

javax.swing.GroupLayout innerlayeredpaneLayout = new
javax.swing.GroupLayout(innerlayeredpane);
innerlayeredpane.setLayout(innerlayeredpaneLayout);
innerlayeredpaneLayout.setHorizontalGroup(
innerlayeredpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGap(0, 976, Short.MAX_VALUE)
);
innerlayeredpaneLayout.setVerticalGroup(
innerlayeredpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGap(0, 492, Short.MAX_VALUE)
);

ineerpanel.setBackground(new java.awt.Color(17, 94, 111));
ineerpanel.setPreferredSize(new java.awt.Dimension(800, 496));

Homebutton.setBackground(new java.awt.Color(255, 182, 28));
Homebutton.setFont(new java.awt.Font("Malgun Gothic", 1, 16));
// NOI18N
Homebutton.setForeground(new java.awt.Color(43, 37, 56));
Homebutton.setText("Home");
Homebutton.setBorder(null);
Homebutton.setBorderPainted(false);
Homebutton.setFocusPainted(false);
Homebutton.addActionListener(new
java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent
evt) {
        HomebuttonActionPerformed(evt);
    }
});
Booksbutton.setBackground(new java.awt.Color(255, 182, 28));
Booksbutton.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
Booksbutton.setForeground(new java.awt.Color(43, 37, 56));
Booksbutton.setText("Books");
Booksbutton.setBorder(null);

```

```

        Booksbutton.setBorderPainted(false);
        Booksbutton.setFocusPainted(false);
        Booksbutton.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                BooksbuttonActionPerformed(evt);
            }
        });
    });

    Postsbutton.setBackground(new java.awt.Color(255, 182, 28));
    Postsbutton.setFont(new java.awt.Font("Malgun Gothic", 1, 16));
    // NOI18N
    Postsbutton.setForeground(new java.awt.Color(43, 37, 56));
    Postsbutton.setText("Posts");
    Postsbutton.setBorder(null);
    Postsbutton.setBorderPainted(false);
    Postsbutton.setFocusPainted(false);
    Postsbutton.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                PostsbuttonActionPerformed(evt);
            }
        });
    });

    Trendingbutton.setBackground(new java.awt.Color(255, 182,
28));
    Trendingbutton.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
    Trendingbutton.setForeground(new java.awt.Color(43, 37, 56));
    Trendingbutton.setText("Trending");
    Trendingbutton.setBorder(null);
    Trendingbutton.setBorderPainted(false);
    Trendingbutton.setFocusPainted(false);
    Trendingbutton.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                TrendingbuttonActionPerformed(evt);
            }
        });
    });

    Profileslabel.setFont(new java.awt.Font("Malgun Gothic", 0, 58));
    // NOI18N

```

```

Profileslabel.setForeground(new java.awt.Color(255, 255, 255));
Profileslabel.setText("Profile");

captionlabel.setFont(new java.awt.Font("Malgun Gothic", 1, 18));
// NOI18N
captionlabel.setForeground(new java.awt.Color(255, 255, 255));
captionlabel.setText("Here you can view your details, liked genres
and posts");

Gobackbutton.setBackground(new java.awt.Color(255, 182, 28));
Gobackbutton.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
Gobackbutton.setForeground(new java.awt.Color(43, 37, 56));
Gobackbutton.setText("Go Back");
Gobackbutton.setBorder(null);
Gobackbutton.setBorderPainted(false);
Gobackbutton.setFocusPainted(false);
Gobackbutton.addActionListener(new
java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent
evt) {
        GobackbuttonActionPerformed(evt);
    }
});
usernamelabel.setBackground(new java.awt.Color(255, 255,
255));
usernamelabel.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
usernamelabel.setForeground(new java.awt.Color(255, 255,
255));
usernamelabel.setText("Username");

Emaillabel.setBackground(new java.awt.Color(255, 255, 255));
Emaillabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16));
// NOI18N
Emaillabel.setForeground(new java.awt.Color(255, 255, 255));
Emaillabel.setText("E-Mail");

usernametextfield.setBackground(new java.awt.Color(43, 37,
56));
usernametextfield.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
usernametextfield.setForeground(new java.awt.Color(255, 255,
255));

```

```

usernametextfield.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 5, 1, 1));

Emailtextfield.setBackground(new java.awt.Color(43, 37, 56));
Emailtextfield.setFont(new java.awt.Font("Malgun Gothic", 1, 14)); // NOI18N
Emailtextfield.setForeground(new java.awt.Color(255, 255, 255));

Emailtextfield.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 5, 1, 1));

firstnamelabel.setBackground(new java.awt.Color(255, 255, 255));
firstnamelabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
firstnamelabel.setForeground(new java.awt.Color(255, 255, 255));
firstnamelabel.setText("First Name");

lastnamelabel.setBackground(new java.awt.Color(255, 255, 255));
lastnamelabel.setFont(new java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
lastnamelabel.setForeground(new java.awt.Color(255, 255, 255));
lastnamelabel.setText("Last Name");

lastnametextField.setBackground(new java.awt.Color(43, 37, 56));
lastnametextField.setFont(new java.awt.Font("Malgun Gothic", 1, 14)); // NOI18N
lastnametextField.setForeground(new java.awt.Color(255, 255, 255));

lastnametextField.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 5, 1, 1));
lastnametextField.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        lastnametextFieldActionPerformed(evt);
    }
});

```

```

yourdetailspanel.setBackground(new java.awt.Color(43, 37, 56));

yourdetailslabel.setFont(new java.awt.Font("Malgun Gothic", 1,
18)); // NOI18N
yourdetailslabel.setForeground(new java.awt.Color(255, 255,
255));

yourdetailslabel.setHorizontalAlignment(javax.swing.SwingConstantsCons
tants.CENTER);
yourdetailslabel.setText("Your Details");

javax.swing.GroupLayout yourdetailspanelLayout = new
javax.swing.GroupLayout(yourdetailspanel);
yourdetailspanel.setLayout(yourdetailspanelLayout);
yourdetailspanelLayout.setHorizontalGroup(
yourdetailspanelLayout.createParallelGroup(javax.swing.GroupLayout
ayout.Alignment.LEADING)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
yourdetailspanelLayout.createSequentialGroup()
.createSequentialGroup()
.addGap(0, 0, Short.MAX_VALUE)
.addComponent(yourdetailslabel,
javax.swing.GroupLayout.PREFERRED_SIZE, 131,
javax.swing.GroupLayout.PREFERRED_SIZE))
);
yourdetailspanelLayout.setVerticalGroup(
yourdetailspanelLayout.createParallelGroup(javax.swing.GroupLayout
ayout.Alignment.LEADING)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
yourdetailspanelLayout.createSequentialGroup()
.createSequentialGroup()
.addGap(0, 0, Short.MAX_VALUE)
.addComponent(yourdetailslabel,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE))
);

firstnametextfield.setBackground(new java.awt.Color(43, 37,
56));
firstnametextfield.setFont(new java.awt.Font("Malgun Gothic", 1,
14)); // NOI18N
firstnametextfield.setForeground(new java.awt.Color(255, 255,
255));

```

```

        firstnametextfield.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 5, 1, 1));
        firstnametextfield.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                firstnametextfieldActionPerformed(evt);
            }
        });
    });

jButton1.setBackground(new java.awt.Color(255, 182, 28));
jButton1.setFont(new java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
jButton1.setForeground(new java.awt.Color(43, 37, 56));
jButton1.setText("Settings");
jButton1.setBorder(null);
jButton1.setFocusPainted(false);
jButton1.addActionListener(new java.awt.event.ActionListener()
{
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
}

javax.swing.GroupLayout ineerpanelLayout = new
javax.swing.GroupLayout(ineerpanel);
ineerpanel.setLayout(ineerpanelLayout);
ineerpanelLayout.setHorizontalGroup(
    ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(ineerpanelLayout.createSequentialGroup()
            .addGap(48, 48, 48)
            .addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(ineerpanelLayout.createSequentialGroup()
                    .addGap(48, 48, 48)
                    .addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(yourdetailspanel,
                                javax.swing.GroupLayout.PREFERRED_SIZE,

```

```

javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(Profilelabel)
.addComponent(captionlabel)
.addGap(0, 0, Short.MAX_VALUE))
.addGroup(ineerpanelLayout.createSequentialGroup()

.addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(javax.swing.GroupLayout.Alignment.LEADING,
ineerpanelLayout.createSequentialGroup()
.addComponent(Homebutton,
javax.swing.GroupLayout.PREFERRED_SIZE, 95,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(18, 18, 18)
.addComponent(Booksbutton,
javax.swing.GroupLayout.PREFERRED_SIZE, 95,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(18, 18, 18)
.addComponent(Postsbutton,
javax.swing.GroupLayout.PREFERRED_SIZE, 95,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(18, 18, 18)
.addComponent(Trendingbutton,
javax.swing.GroupLayout.PREFERRED_SIZE, 95,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 83,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.LEADING,
ineerpanelLayout.createSequentialGroup()

.addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(usernametextfield,
javax.swing.GroupLayout.PREFERRED_SIZE, 239,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(usernamelabel)

```

```

        .addComponent(firstnametextfield,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(firstnamelabel))
        .addGap(158, 158, 158)

        .addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(lastnametextfield,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(Emailtextfield,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(lastnamelabel)
        .addComponent(Emaillabel)))
        .addGap(18, 18, 18)
        .addComponent(Gobackbutton,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(48, 48, 48)))
);

ineerpanelLayout.setVerticalGroup(
    ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(ineerpanelLayout.createSequentialGroup()
    .addGap(39, 39, 39)

        .addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(Homebutton,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(Booksbutton,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(Postsbutton,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(Trendingbutton,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(Trendingbutton,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
);

```

```

        .addComponent(Gobackbutton,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(0, 0, Short.MAX_VALUE)
        .addComponent(Profileslabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(3, 3, 3)
        .addComponent(captionlabel)
        .addGap(28, 28, 28)
        .addComponent(yourdetailspanel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)

        .addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(Emaillabel)
.addComponent(usernamelabel,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(Emailtextfield,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(usernametextfield,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(27, 27, 27)

        .addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(firstnamelabel)
.addComponent(lastnamelabel))

```

```

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
.RELATED)

.addGroup(ineerpanelLayout.createParallelGroup(javax.swing.Gr
oupLayout.Alignment.BASELINE)
.addComponent(firstnametextfield,
javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(lastnametextfield,
javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(104, 104, 104))
);

jPanel2.setBackground(new java.awt.Color(17, 94, 111));

yourdetailspanel1.setBackground(new java.awt.Color(43, 37,
56));

yourdetailslabel1.setFont(new java.awt.Font("Malgun Gothic", 1,
18)); // NOI18N
yourdetailslabel1.setForeground(new java.awt.Color(255, 255,
255));

yourdetailslabel1.setHorizontalAlignment(javax.swing.SwingConstantsCon
stants.CENTER);
yourdetailslabel1.setText("Liked Genres");

javax.swing.GroupLayout yourdetailspanel1Layout = new
javax.swing.GroupLayout(yourdetailspanel1);
yourdetailspanel1.setLayout(yourdetailspanel1Layout);
yourdetailspanel1Layout.setHorizontalGroup(
yourdetailspanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
yourdetailspanel1Layout.createSequentialGroup()
.yourdetailspanel1Layout.createSequentialGroup()
.addGap(0, 0, Short.MAX_VALUE)
.addComponent(yourdetailslabel1,
javax.swing.GroupLayout.PREFERRED_SIZE, 131,
javax.swing.GroupLayout.PREFERRED_SIZE))
);
yourdetailspanel1Layout.setVerticalGroup(

```

```

yourdetailspanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
yourdetailspanel1Layout.createSequentialGroup()
    .addGroup(0, 0, Short.MAX_VALUE)
    .addComponent(yourdetailslabel1,
        javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE))
);

```

42,

```

jTextArea1.setBackground(new java.awt.Color(43, 37, 56));
jTextArea1.setColumns(20);
jTextArea1.setFont(new java.awt.Font("Malgun Gothic", 1, 20));
// NOI18N
jTextArea1.setForeground(new java.awt.Color(255, 255, 255));
jTextArea1.setRows(5);
jScrollPane1.setViewportView(jTextArea1);

javax.swing.GroupLayout jPanel2Layout = new
javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(

```

new

```

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(48, 48, 48)
        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addComponent(yourdetailspanel1,
                    javax.swing.GroupLayout.PREFERRED_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jScrollPane1,
                    javax.swing.GroupLayout.PREFERRED_SIZE,
                    javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(461, 461, 461)
                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                            .addComponent(jPanel2Layout.createSequentialGroup()
                                .addGap(Short.MAX_VALUE)
                                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                    .addComponent(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                                            .addComponent(jPanel2Layout.createSequentialGroup()
                                                .addGap(180, 180, 180)
                                                .addComponent(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                                    .addComponent(jPanel2Layout.createSequentialGroup()

```

461,

```

.jaddGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jPanel2Layout.createSequentialGroup()
                        .addGap(Short.MAX_VALUE)
                        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                                    .addComponent(jPanel2Layout.createSequentialGroup()
                                        .addGap(180, 180, 180)
                                        .addComponent(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                            .addComponent(jPanel2Layout.createSequentialGroup()

```

```

        .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(28, 28, 28)
        .addComponent(yourdetailspanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(34, 34, 34)
        .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(51, Short.MAX_VALUE))
    );
}

jPanel1.setBackground(new java.awt.Color(17, 94, 111));

jPanel3.setBackground(new java.awt.Color(43, 37, 56));

jLabel1.setFont(new java.awt.Font("Malgun Gothic", 1, 18)); // NOI18N
jLabel1.setForeground(new java.awt.Color(255, 255, 255));

jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel1.setText("Your Posts");

javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
jPanel3.setLayout(jPanel3Layout);
jPanel3Layout.setHorizontalGroup(
jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jPanel3Layout.createSequentialGroup()
.addComponent(jLabel1,
javax.swing.GroupLayout.DEFAULT_SIZE, 111, Short.MAX_VALUE)
);
jPanel3Layout.setVerticalGroup(
jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jPanel3Layout.createSequentialGroup()
.addComponent(jLabel1,
javax.swing.GroupLayout.DEFAULT_SIZE, 40, Short.MAX_VALUE)
);
);

displayMyPosts();

```

```

        java.awt.GridLayout      jPanel4Layout      =      new
        java.awt.GridLayout(0, 1);
        jPanel4.setLayout(jPanel4Layout);
        jScrollPane2.setViewportView(jPanel4);
        jScrollPane2.setBorder(null);

        javax.swing.GroupLayout      jPanel1Layout      =      new
        javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(48, 48, 48)
                .addComponent(jPanel3,
                    javax.swing.GroupLayout.PREFERRED_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
                    Short.MAX_VALUE))
            .addComponent(jScrollPane2,
                javax.swing.GroupLayout.Alignment.TRAILING)
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(29, 29, 29)
                .addComponent(jPanel3,
                    javax.swing.GroupLayout.PREFERRED_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jScrollPane2))
        );

        javax.swing.GroupLayout      outerpanelLayout      =      new
        javax.swing.GroupLayout(outerpanel);
        outerpanel.setLayout(outerpanelLayout);
        outerpanelLayout.setHorizontalGroup(
            outerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

.addGroup(outerpanelLayout.createSequentialGroup()
.addGap(29, 29, 29)

.addGroup(outerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
.addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(jPanel2,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(innerpanel,
javax.swing.GroupLayout.DEFAULT_SIZE, 918, Short.MAX_VALUE))
.addGap(49, 49, 49)
.addComponent(innerlayeredpane,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addContainerGap(27, Short.MAX_VALUE))
);
outerpanelLayout.setVerticalGroup(
outerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(outerpanelLayout.createSequentialGroup()
.addGap(30, 30, 30)

.addGroup(outerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(innerlayeredpane,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGroup(outerpanelLayout.createSequentialGroup()
.addComponent(innerpanel,
javax.swing.GroupLayout.PREFERRED_SIZE, 475,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGroup(outerpanelLayout.createSequentialGroup()
.addComponent(jPanel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))

```

```

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement
        .UNRELATED)
        .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(31, Short.MAX_VALUE))
);

        outerlayeredpane.setLayer(outerpanel,
javax.swing.JLayeredPane.DEFAULT_LAYER);

        javax.swing.GroupLayout outerlayeredpaneLayout = new
javax.swing.GroupLayout(outerlayeredpane);
        outerlayeredpane.setLayout(outerlayeredpaneLayout);
        outerlayeredpaneLayout.setHorizontalGroup(
outerlayeredpaneLayout.createParallelGroup(javax.swing.GroupLayout
Layout.Alignment.LEADING)
.addComponent(outerpanel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
);
        outerlayeredpaneLayout.setVerticalGroup(
outerlayeredpaneLayout.createParallelGroup(javax.swing.GroupLayout
Layout.Alignment.LEADING)
.addComponent(outerpanel,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
        scrollpane.setViewportView(outerlayeredpane);

        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
.addComponent(scrollpane,
javax.swing.GroupLayout.DEFAULT_SIZE, 1000, Short.MAX_VALUE)

```

```

);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
    LEADING)
    .addComponent(scrollpane,
    javax.swing.GroupLayout.DEFAULT_SIZE,
    Short.MAX_VALUE)
);

displayLikedGenres();
displayMyPosts();
displayUserDetails();
pack();
 setLocationRelativeTo(null);
}

private void HomebuttonActionPerformed(java.awt.event.ActionEvent
evt) {

    HomePage h = new HomePage(this.username);
    h.show();
    dispose();
}

private void BooksbuttonActionPerformed(java.awt.event.ActionEvent
evt) {

    BooksPage b = new BooksPage(this.username);
    b.show();
    dispose();
}

private void PostsbuttonActionPerformed(java.awt.event.ActionEvent
evt) {

    Posts p = new Posts(this.username);
    p.show();
    dispose();
}

private void
TrendingbuttonActionPerformed(java.awt.event.ActionEvent evt) {

    Trending t = new Trending(this.username);
}

```

```

        t.show();
        dispose();
    }

    private void GobackbuttonActionPerformed(java.awt.event.ActionEvent evt) {

        HomePage h = new HomePage(this.username);
        h.show();
        dispose();
    }

    private void lastnametextfieldActionPerformed(java.awt.event.ActionEvent evt) {

    }

    private void firstnametextfieldActionPerformed(java.awt.event.ActionEvent evt) {

    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)
    {

        Settings s = new Settings(this.username);
        s.show();
        dispose();
    }

    public void displayUserDetails() {
        try {
            Class.forName("oracle.jdbc.driver.OracleDriver");

            Connection con=DriverManager.getConnection(
                "jdbc:oracle:thin:@localhost:1521:xe","it175","sravya");

            Statement stmt=con.createStatement();
            ResultSet rs = stmt.executeQuery("SELECT * FROM
            USERS WHERE USERNAME = '" + this.username + "'");

            while(rs.next()) {
                String userName = rs.getString(1);
                String firstname = rs.getString(2);
                String lastname = rs.getString(3);

```

```

        String email = rs.getString(4);
        usernametextfield.setText(userName);
        firstnametextfield.setText(firstname);
        lastnametextfield.setText(lastname);
        Emailtextfield.setText(email);

    }

    con.close();
} catch(Exception e) {
    System.out.println(e);
}

}

public void displayLikedGenres() {
    jTextArea1.setBorder(new EmptyBorder(1, 5, 1, 1));
    jScrollPane1.setBorder(null);
    try {
        Class.forName("oracle.jdbc.driver.OracleDriver");

        Connection con=DriverManager.getConnection(
            "jdbc:oracle:thin:@localhost:1521:xe","it175","sravya");

        Statement stmt=con.createStatement();
        ResultSet rs = stmt.executeQuery("SELECT * FROM
LIKEDGENRES WHERE USERNAME = '" + username + "'");

        String allLikedGenres = "";
        int flag = 0;
        while(rs.next()) {
            String g = rs.getString(2);
            allLikedGenres += g + "\n";
            flag = 1;
        }

        if (flag == 1) {
            jTextArea1.setText(allLikedGenres);
        } else {
            jTextArea1.setText("YOU HAVE NO LIKED
GENRES!");
        }
    }

    con.close();
} catch(Exception e) {
}

```

```

        System.out.println(e);
    }
}

public void displayMyPosts() {
    jPanel4.removeAll();
    validate();
    repaint();
    jScrollPane2.validate();
    int flag = 0;
    String bookname = "";
    String authorName = "";
    String genre = "";
    String post = "";
    Float rating = 0F;

    try {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con=DriverManager.getConnection(
        "jdbc:oracle:thin:@localhost:1521:xe","it175","sravya");
        Statement stmt=con.createStatement();
        ResultSet rs = stmt.executeQuery("SELECT * FROM
        POSTS WHERE USERNAME = '" + username + "' ORDER BY TIME
        DESC");

        while(rs.next()) {
            JLabel BookLabel = new JLabel();
            bookname = rs.getString(1);
            authorName = rs.getString(2);
            genre = rs.getString(3);
            post = rs.getString(4);
            rating = rs.getFloat(5);
            flag = 1;

            Blob b = rs.getBlob(6);
            byte barr[] = b.getBytes(1,(int)b.length());
            ImageIcon icon = new ImageIcon(barr);
            java.awt.Image img = icon.getImage();
            java.awt.Image scale = img.getScaledInstance(200,
            300,java.awt.Image.SCALE_SMOOTH);
            ImageIcon scaled = new ImageIcon(scale);
            BookLabel.setIcon(scaled);

            JPanel mainPanel = new javax.swing.JPanel();

```

```

        mainPanel.setBackground(new java.awt.Color(17,
94, 111));
        JPanel PostsPanel = new javax.swing.JPanel();
        JScrollPane SummaryScrollPane = new
        javax.swing.JScrollPane();
        JTextArea SummaryTextArea = new
        javax.swing.JTextArea();
        JLabel bookNameLabel = new
        javax.swing.JLabel();
        JLabel authorNameLabel = new
        javax.swing.JLabel();
        JLabel genreLabel = new javax.swing.JLabel();
        JLabel RatingLabel = new javax.swing.JLabel();
        JLabel ReviewLabel = new javax.swing.JLabel();
        JTextField BookTextField = new
        javax.swing.JTextField();
        JTextField AuthorTextField = new
        javax.swing.JTextField();
        JTextField GenreTextField = new
        javax.swing.JTextField();
        JTextField jTextField1 = new
        javax.swing.JTextField();
        JLabel UsernameLabel = new javax.swing.JLabel();
        JTextField usernameTextField = new
        javax.swing.JTextField();

        setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
        setPreferredSize(new java.awt.Dimension(886,
345));

        PostsPanel.setBackground(new java.awt.Color(43,
37, 56));
        PostsPanel.setPreferredSize(new
        java.awt.Dimension(886, 400));

        SummaryTextArea.setBackground(new
        java.awt.Color(17, 94, 111));
        SummaryTextArea.setColumns(20);
        SummaryTextArea.setFont(new
        java.awt.Font("Malgun Gothic", 1, 14)); // NOI18N
        SummaryTextArea.setText(post);
        SummaryTextArea.setBorder(new
        EmptyBorder(5, 5, 5, 5));

```

```

        SummaryTextArea.setForeground(new
java.awt.Color(255, 255, 255));
        SummaryTextArea.setLineWrap(true);
        SummaryTextArea.setRows(5);
        SummaryTextArea.setWrapStyleWord(true);
SummaryScrollPane.setViewportView(SummaryTextArea);
        SummaryScrollPane.setBorder(null);

bookNameLabel.setFont(new
java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
bookNameLabel.setForeground(new
java.awt.Color(255, 255, 255));
bookNameLabel.setText("Book");

authorNameLabel.setFont(new
java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
authorNameLabel.setForeground(new
java.awt.Color(255, 255, 255));
authorNameLabel.setText("Author ");

genreLabel.setFont(new java.awt.Font("Malgun
Gothic", 1, 16)); // NOI18N
genreLabel.setForeground(new
java.awt.Color(255, 255, 255));
genreLabel.setText("Genre");

RatingLabel.setFont(new java.awt.Font("Malgun
Gothic", 1, 16)); // NOI18N
RatingLabel.setForeground(new
java.awt.Color(255, 255, 255));
RatingLabel.setText("Rating");

ReviewLabel.setFont(new java.awt.Font("Malgun
Gothic", 1, 16)); // NOI18N
ReviewLabel.setForeground(new
java.awt.Color(255, 255, 255));
ReviewLabel.setText("Review");

BookTextField.setBackground(new
java.awt.Color(17, 94, 111));
BookTextField.setText(bookname);
BookTextField.setBorder(new EmptyBorder(0, 5,
0, 0));
BookTextField.setFont(new
java.awt.Font("Malgun Gothic", 1, 11)); // NOI18N

```

```

        BookTextField.setForeground(new
java.awt.Color(255, 255, 255));

        AuthorTextField.setBackground(new
java.awt.Color(17, 94, 111));
        AuthorTextField.setText(authorName);
        AuthorTextField.setBorder(new EmptyBorder(0,
5, 0, 0));
        AuthorTextField.setFont(new
java.awt.Font("Malgun Gothic", 1, 11)); // NOI18N
        AuthorTextField.setForeground(new
java.awt.Color(255, 255, 255));

        GenreTextField.setBackground(new
java.awt.Color(17, 94, 111));
        GenreTextField.setBorder(new EmptyBorder(0, 5,
0, 0));
        GenreTextField.setFont(new
java.awt.Font("Malgun Gothic", 1, 11)); // NOI18N
        GenreTextField.setForeground(new
java.awt.Color(255, 255, 255));
        GenreTextField.setText(genre);
        GenreTextField.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {

        }

    });
}

jTextField1.setBackground(new
java.awt.Color(17, 94, 111));
jTextField1.setBorder(new EmptyBorder(0, 5, 0,
0));
jTextField1.setFont(new java.awt.Font("Malgun
Gothic", 1, 40)); // NOI18N
jTextField1.setForeground(new
java.awt.Color(255, 255, 255));
jTextField1.setText(rating.toString());
jTextField1.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {

        }

    });
}

```

```

        });

        Usernamelabel.setFont(new
            java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
        Usernamelabel.setForeground(new
            java.awt.Color(255, 255, 255));
        Usernamelabel.setText("Username");

        usernametextfield.setBackground(new
            java.awt.Color(17, 94, 111));
        usernametextfield.setBorder(new EmptyBorder(0,
            5, 0, 0));
        usernametextfield.setText(username);
        usernametextfield.setFont(new
            java.awt.Font("Malgun Gothic", 1, 11)); // NOI18N
        usernametextfield.setForeground(new
            java.awt.Color(255, 255, 255));

        javax.swing.GroupLayout PostsPanelLayout = new javax.swing.GroupLayout(PostsPanel);
        PostsPanel.setLayout(PostsPanelLayout);
        PostsPanelLayout.setHorizontalGroup(
            PostsPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(PostsPanelLayout.createSequentialGroup()
                    .addGap(200, 200, 200)
                    .addGroup(PostsPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(PostsPanelLayout.createSequentialGroup()
                            .addGap(60, 60, 60)
                            .addGroup(PostsPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .addGroup(PostsPanelLayout.createSequentialGroup()
                                    .addGap(0, 0, 0)
                                    .addComponent(ReviewLabel))
                                .addGroup(PostsPanelLayout.createSequentialGroup()
                                    .addGap(0, 0, 0)
                                    .addComponent(bookNameLabel)))
                            .addGap(0, 0, 0)
                            .addGroup(PostsPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .addGroup(PostsPanelLayout.createSequentialGroup()
                                    .addGap(0, 0, 0)
                                    .addComponent(authorNameLabel))
                                .addGroup(PostsPanelLayout.createSequentialGroup()
                                    .addGap(0, 0, 0)
                                    .addComponent(genreLabel))
                                .addGroup(PostsPanelLayout.createSequentialGroup()
                                    .addGap(0, 0, 0)
                                    .addComponent(Usernamelabel)))
                            .addGap(0, 0, 0)
                            .addGroup(PostsPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .addGroup(PostsPanelLayout.createSequentialGroup()
                                    .addGap(0, 0, 0)
                                    .addComponent(bookNameLabel))
                                .addGroup(PostsPanelLayout.createSequentialGroup()
                                    .addGap(0, 0, 0)
                                    .addComponent(authorNameLabel))
                                .addGroup(PostsPanelLayout.createSequentialGroup()
                                    .addGap(0, 0, 0)
                                    .addComponent(genreLabel))
                                .addGroup(PostsPanelLayout.createSequentialGroup()
                                    .addGap(0, 0, 0)
                                    .addComponent(Usernamelabel)))))))
                .addGap(46, 46, 46)
            )
        );
    }
}

```

```

.addGap(30, 30, 30)

.addGroup(PostsPanelLayout.createParallelGroup(javax.s
wing.GroupLayout.Alignment.LEADING, false)

.addGroup(PostsPanelLayout.createSequentialGroup()

.addGroup(PostsPanelLayout.createParallelGroup(javax.s
wing.GroupLayout.Alignment.LEADING)
.addComponent(AuthorTextField,
javax.swing.GroupLayout.PREFERRED_SIZE, 285,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(GenreTextField,
javax.swing.GroupLayout.PREFERRED_SIZE, 285,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(65, 65, 65)
.addComponent(jTextField1,
javax.swing.GroupLayout.PREFERRED_SIZE, 74,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addComponent(usernametextfield,
javax.swing.GroupLayout.PREFERRED_SIZE, 285,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(PostsPanelLayout.createSequentialGroup()
.addComponent(BookTextField,
javax.swing.GroupLayout.PREFERRED_SIZE, 285,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponentRatingLabel
.addPreferredGap(javax.swing.LayoutStyle.ComponentPl
acement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(RatingLabel)
.addGap(11, 11, 11)))
.addComponent(SummaryScrollPane))
.addContainerGap(44, Short.MAX_VALUE))
);

PostsPanelLayout.setVerticalGroup(
PostsPanelLayout.createParallelGroup(javax.swing.GroupLayout
Alignment.LEADING)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
PostsPanelLayout.createSequentialGroup()
.addContainerGap(83, Short.MAX_VALUE)

```

```
.addGroup(PostsPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PostsPanelLayout.createSequentialGroup()

.addGroup(PostsPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(PostsPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(usernameLabel)
.addComponent(usernameTextField,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(PostsPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(bookNameLabel)
.addComponent(BookTextField,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(PostsPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(authorNameLabel)
.addComponent(AuthorTextField,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
```

```

        .addGroup(PostsPanelLayout.createParallelGroup(javax.s
wing.GroupLayout.Alignment.BASELINE)
        .addComponent(genreLabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(GenreTextField,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGroup(PostsPanelLayout.createSequentialGroup()
        .addGap(39, 39, 39)
        .addComponent(RatingLabel)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPl
acement.UNRELATED)
        .addComponent(jTextField1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPl
acement.UNRELATED)
        .addComponent(ReviewLabel)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPl
acement.UNRELATED)
        .addComponent(SummaryScrollPane,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addComponent(BookLabel,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(28, 28, 28))
);
mainPanel.add(PostsPanel);
JLabel gap = new JLabel();
gap.setBackground(Color.WHITE);
mainPanel.add(gap);
jPanel4.add(mainPanel);

}

if (flag == 0) {

```

```

        JLabel message = new JLabel("You haven't posted
anything yet!");
        message.setFont(new Font("Malgun Gothic", Font.BOLD,
30));
        message.setForeground(Color.WHITE);
        jPanel4.setBackground(new java.awt.Color(17, 94, 111));
        jPanel4.setBorder(new EmptyBorder(5, 200, 20, 5));
        jScrollPane2.setBorder(new LineBorder(Color.BLACK));
        jPanel4.add(message);
    }

} catch (Exception e) {
    System.out.println(e);
}

pack();
setPreferredSize(new Dimension(1000, 600));
setVisible(true);
}

private javax.swing.JButton Booksbutton;
private javax.swing.JLabel Emaillabel;
private javax.swing.JTextField Emailtextfield;
private javax.swing.JButton Gobackbutton;
private javax.swing.JButton Homebutton;
private javax.swing.JButton Postsbutton;
private javax.swing.JLabel Profileslabel;
private javax.swing.JButton Trendingbutton;
private javax.swing.JLabel captionlabel;
private javax.swing.JLabel firstnamelabel;
private javax.swing.JTextField firstnametextfield;
private javax.swing.JPanel ineerpanel;
private javax.swing.JLayeredPane innerlayeredpane;
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JPanel jPanel3;
private javax.swing.JPanel jPanel4;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JScrollPane jScrollPane2;
private javax.swing.JTextArea jTextAreal;
private javax.swing.JLabel lastnamelabel;
private javax.swing.JTextField lastnametextfield;
private javax.swing.JLayeredPane outerlayeredpane;

```

```

private javax.swing.JPanel outerpanel;
private javax.swing.JScrollPane scrollpane;
private javax.swing.JLabel usernamelabel;
private javax.swing.JTextField usernametextfield;
private javax.swing.JLabel yourdetailslabel;
private javax.swing.JLabel yourdetailslabel1;
private javax.swing.JPanel yourdetailspanel;
private javax.swing.JPanel yourdetailspanel1;
}

```

7.2.13. Settings.java

```

package booktap;

import javax.swing.*;
import java.sql.*;

public class Settings extends javax.swing.JFrame {

    String username;
    public Settings(String u) {
        this.username = u;
        initComponents();
    }

    private void initComponents() {

        firstnametextfield1 = new javax.swing.JTextField();
        outerlayeredpane = new javax.swing.JLayeredPane();
        outerpanel = new javax.swing.JPanel();
        innerlayeredpane = new javax.swing.JLayeredPane();
        innerpanel = new javax.swing.JPanel();
        Homebutton = new javax.swing.JButton();
        Booksbutton = new javax.swing.JButton();
        Postsbutton = new javax.swing.JButton();
        Trendingbutton = new javax.swing.JButton();
        Settingsslabel = new javax.swing.JLabel();
        captionlabel = new javax.swing.JLabel();
        Gobackbutton = new javax.swing.JButton();
        firstnamelabel = new javax.swing.JLabel();
        lastnamelabel = new javax.swing.JLabel();
        firstnametextfield = new javax.swing.JTextField();
        lastnametextfield = new javax.swing.JTextField();
        passwordlabel = new javax.swing.JLabel();
    }
}

```

```

emaillabel = new javax.swing.JLabel();
emailtextfield = new javax.swing.JTextField();
savechangesbutton = new javax.swing.JButton();
jPanel1 = new javax.swing.JPanel();
jLabel1 = new javax.swing.JLabel();
jButton_Logout = new javax.swing.JButton();
jLabel_Password = new javax.swing.JTextField();

firstnametextfield1.setFont(new java.awt.Font("Malgun Gothic", 1, 14)); // NOI18N
firstnametextfield1.setForeground(new java.awt.Color(43, 37, 56));

firstnametextfield1.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 5, 1, 1));

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setTitle("SETTINGS");
setSize(new java.awt.Dimension(1000, 600));

outerpanel.setBackground(new java.awt.Color(43, 37, 56));

ineerpanel.setBackground(new java.awt.Color(17, 94, 111));
ineerpanel.setPreferredSize(new java.awt.Dimension(884, 496));

Homebutton.setBackground(new java.awt.Color(255, 182, 28));
Homebutton.setFont(new java.awt.Font("Malgun Gothic", 1, 16)); // NOI18N
Homebutton.setForeground(new java.awt.Color(43, 37, 56));
Homebutton.setText("Home");
Homebutton.setBorder(null);
Homebutton.setBorderPainted(false);
Homebutton.setFocusPainted(false);
Homebutton.addActionListener(new
java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        HomebuttonActionPerformed(evt);
    }
})

```

```

        }
    });

    Booksbutton.setBackground(new java.awt.Color(255,
182, 28));
    Booksbutton.setFont(new java.awt.Font("Malgun Gothic",
1, 16)); // NOI18N
    Booksbutton.setForeground(new java.awt.Color(43, 37,
56));
    Booksbutton.setText("Books");
    Booksbutton.setBorder(null);
    Booksbutton.setBorderPainted(false);
    Booksbutton.setFocusPainted(false);
    Booksbutton.addActionListener(new
java.awt.event.ActionListener() {
        public void
actionPerformed(java.awt.event.ActionEvent evt) {
            BooksbuttonActionPerformed(evt);
        }
    });
}

Postsbutton.setBackground(new java.awt.Color(255, 182,
28));
Postsbutton.setFont(new java.awt.Font("Malgun Gothic",
1, 16)); // NOI18N
Postsbutton.setForeground(new java.awt.Color(43, 37,
56));
Postsbutton.setText("Posts");
Postsbutton.setBorder(null);
Postsbutton.setBorderPainted(false);
Postsbutton.setFocusPainted(false);
Postsbutton.addActionListener(new
java.awt.event.ActionListener() {
        public void
actionPerformed(java.awt.event.ActionEvent evt) {
            PostsbuttonActionPerformed(evt);
        }
    });
}

Trendingbutton.setBackground(new java.awt.Color(255,
182, 28));
Trendingbutton.setFont(new java.awt.Font("Malgun
Gothic", 1, 16)); // NOI18N
Trendingbutton.setForeground(new java.awt.Color(43, 37,
56));

```

```

Trendingbutton.setText("Trending");
Trendingbutton.setBorder(null);
Trendingbutton.setBorderPainted(false);
Trendingbutton.setFocusPainted(false);
Trendingbutton.addActionListener(new
java.awt.event.ActionListener() {
    public void
actionPerformed(java.awt.event.ActionEvent evt) {
        TrendingbuttonActionPerformed(evt);
    }
});

Settingslabel.setFont(new java.awt.Font("Malgun Gothic",
0, 58)); // NOI18N
Settingslabel.setForeground(new java.awt.Color(255, 255,
255));
Settingslabel.setText("Settings");

captionlabel.setFont(new java.awt.Font("Malgun Gothic",
1, 18)); // NOI18N
captionlabel.setForeground(new java.awt.Color(255, 255,
255));
captionlabel.setText("Here you can edit your profile");

Gobackbutton.setBackground(new java.awt.Color(255,
182, 28));
Gobackbutton.setFont(new java.awt.Font("Malgun
Gothic", 1, 16)); // NOI18N
Gobackbutton.setForeground(new java.awt.Color(43, 37,
56));
Gobackbutton.setText("Go Back");
Gobackbutton.setBorder(null);
Gobackbutton.setBorderPainted(false);
Gobackbutton.setFocusPainted(false);
Gobackbutton.addActionListener(new
java.awt.event.ActionListener() {
    public void
actionPerformed(java.awt.event.ActionEvent evt) {
        GobackbuttonActionPerformed(evt);
    }
});

firstnamelabel.setBackground(new java.awt.Color(255,
255, 255));

```

```

        firstnamelabel.setFont(new java.awt.Font("Malgun
Gothic", 1, 16)); // NOI18N
        firstnamelabel.setForeground(new java.awt.Color(255,
255, 255));
        firstnamelabel.setText("First Name");

        lastnamelabel.setBackground(new java.awt.Color(255,
255, 255));
        lastnamelabel.setFont(new java.awt.Font("Malgun
Gothic", 1, 16)); // NOI18N
        lastnamelabel.setForeground(new java.awt.Color(255,
255, 255));
        lastnamelabel.setText("Last Name");

        firstnametextfield.setFont(new java.awt.Font("Malgun
Gothic", 1, 14)); // NOI18N
        firstnametextfield.setForeground(new java.awt.Color(43,
37, 56));

firstnametextfield.setBorder(javax.swing.BorderFactory.create
EmptyBorder(1, 5, 1, 1));

        lastnametextfield.setFont(new java.awt.Font("Malgun
Gothic", 1, 14)); // NOI18N
        lastnametextfield.setForeground(new java.awt.Color(43,
37, 56));

lastnametextfield.setBorder(javax.swing.BorderFactory.createE
mptyBorder(1, 5, 1, 1));

        passwordlabel.setBackground(new java.awt.Color(255,
255, 255));
        passwordlabel.setFont(new java.awt.Font("Malgun
Gothic", 1, 16)); // NOI18N
        passwordlabel.setForeground(new java.awt.Color(255,
255, 255));
        passwordlabel.setText("Password");

        emaillabel.setBackground(new java.awt.Color(255, 255,
255));
        emaillabel.setFont(new java.awt.Font("Malgun Gothic", 1,
16)); // NOI18N
        emaillabel.setForeground(new java.awt.Color(255, 255,
255));
        emaillabel.setText("E-Mail");

```

```

        emailtextfield.setFont(new java.awt.Font("Malgun
Gothic", 1, 14)); // NOI18N
        emailtextfield.setForeground(new java.awt.Color(43, 37,
56));

        emailtextfield.setBorder(javax.swing.BorderFactory.create
EmptyBorder(1, 5, 1, 1));
        emailtextfield.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                emailtextfieldActionPerformed(evt);
            }
        });

        savechangesbutton.setBackground(new
java.awt.Color(255, 182, 28));
        savechangesbutton.setFont(new java.awt.Font("Malgun
Gothic", 1, 16)); // NOI18N
        savechangesbutton.setForeground(new java.awt.Color(43,
37, 56));
        savechangesbutton.setText("Save Changes");
        savechangesbutton.setBorder(null);
        savechangesbutton.setBorderPainted(false);
        savechangesbutton.setFocusPainted(false);
        savechangesbutton.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                savechangesbuttonActionPerformed(evt);
            }
        });

        jPanel1.setBackground(new java.awt.Color(43, 37, 56));

        jLabel1.setFont(new java.awt.Font("Malgun Gothic", 1,
18)); // NOI18N
        jLabel1.setForeground(new java.awt.Color(255, 255,
255));

        jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
        jLabel1.setText("Edit Profile");
    }
}
```

```

        javax.swing.GroupLayout jPanel1Layout = new
        javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(0, 0, Short.MAX_VALUE)
                    .addComponent(jLabel1,
                        javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.PREFERRED_SIZE))
            );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(0, 0, Short.MAX_VALUE)
                    .addComponent(jLabel1,
                        javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.PREFERRED_SIZE))
            );
    }

    jButton_Logout.setBackground(new java.awt.Color(255,
        182, 28));
    jButton_Logout.setFont(new java.awt.Font("Malgun
        Gothic", 1, 16)); // NOI18N
    jButton_Logout.setForeground(new java.awt.Color(43, 37,
        56));
    jButton_Logout.setText("Logout");
    jButton_Logout.setBorder(null);
    jButton_Logout.setFocusPainted(false);
    jButton_Logout.addActionListener(new
        java.awt.event.ActionListener() {
            public void
            actionPerformed(java.awt.event.ActionEvent evt) {
                jButton_LogoutActionPerformed(evt);
            }
        });
}

jLabel_Password.setFont(new java.awt.Font("Malgun
    Gothic", 1, 14)); // NOI18N

```

```
jLabel_Password.setForeground(new java.awt.Color(43, 37, 56));  
  
jLabel_Password.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 5, 1, 1));  
  
javax.swing.GroupLayout ineerpanelLayout = new javax.swing.GroupLayout(ineerpanel);  
ineerpanel.setLayout(ineerpanelLayout);  
ineerpanelLayout.setHorizontalGroup(  
    ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(ineerpanelLayout.createSequentialGroup()  
            .addGap(48, 48, 48)  
            .addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addGroup(ineerpanelLayout.createSequentialGroup()  
                    .addGap(48, 48, 48)  
                    .addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                        .addGroup(ineerpanelLayout.createSequentialGroup()  
                            .addGap(48, 48, 48)  
                            .addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                                .addComponent(firstnametextfield, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)  
                                .addComponent(passwordlabel)  
                                .addComponent(jLabel_Password, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)  
                            )  
                            .addGap(95, 95, 95)  
                            .addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                                .addGroup(ineerpanelLayout.createSequentialGroup()  
                                    .addGap(48, 48, 48)  
                                    .addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                                        .addComponent(emaillabel)  
                                        .addComponent(lastnametextfield, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)  
                                    )  
                                    .addGap(48, 48, 48)  
                                    .addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                                        .addComponent(lastnamelabel)  
                                    )  
                                )  
                            )  
                        )  
                    )  
                )  
            )  
        )  
    )  
);  
ineerpanelLayout.setVerticalGroup(  
    ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(ineerpanelLayout.createSequentialGroup()  
            .addGap(48, 48, 48)  
            .addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addComponent(firstnamelabel)  
                .addComponent(passwordlabel)  
                .addComponent(jLabel_Password, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)  
            )  
            .addGap(95, 95, 95)  
            .addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addComponent(emaillabel)  
                .addComponent(lastnametextfield, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)  
            )  
            .addGap(48, 48, 48)  
            .addGroup(ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addComponent(lastnamelabel)  
            )  
        )  
    )  
);
```

```

    .addContainerGap(javax.swing.GroupLayout.DEFAULT_
    SIZE, Short.MAX_VALUE))

    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
    ineerpanelLayout.createSequentialGroup()
        .addComponent(emailtextfield,
    javax.swing.GroupLayout.PREFERRED_SIZE, 239,
    javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPl
    acement.RELATED, 103, Short.MAX_VALUE)
        .addComponent(savechangesbutton,
    javax.swing.GroupLayout.PREFERRED_SIZE, 132,
    javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(50, 50, 50)))
        .addGroup(ineerpanelLayout.createSequentialGroup()

            .addGroup(ineerpanelLayout.createParallelGroup(javax.s
    wing.GroupLayout.Alignment.LEADING)
                .addComponent(captionlabel)
                .addComponent(Settingslabel)
                .addComponent(jPanel1,
    javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE,
    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGroup(ineerpanelLayout.createSequentialGroup()
                    .addComponent(Homebutton,
    javax.swing.GroupLayout.PREFERRED_SIZE, 95,
    javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(18, 18, 18)
                    .addComponent(Booksbutton,
    javax.swing.GroupLayout.PREFERRED_SIZE, 95,
    javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(18, 18, 18)
                    .addComponent(Postsbutton,
    javax.swing.GroupLayout.PREFERRED_SIZE, 95,
    javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(18, 18, 18)
                    .addComponent(Trendingbutton,
    javax.swing.GroupLayout.PREFERRED_SIZE, 95,
    javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(165, 165, 165)

```

```

        .addComponent(Gobackbutton,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(jButton_Logout,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addContainerGap(50, Short.MAX_VALUE))))
);
ineerpanelLayout.setVerticalGroup(
    ineerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(ineerpanelLayout.createSequentialGroup()
.addGap(39, 39, 39)

.addGroup(ineerpanelLayout.createParallelGroup(javax.s
wing.GroupLayout.Alignment.BASELINE)
.addComponent(Homebutton,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(Booksbutton,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(Postsbutton,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(Trendingbutton,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(Gobackbutton,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jButton_Logout,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(0, 12, Short.MAX_VALUE)
        .addComponent(Settingslabel,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPl
acement.UNRELATED)

```

```

        .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPl
acement.UNRELATED)
.addComponent(captionlabel)
.addGap(27, 27, 27)

.addGroup(ineerpanelLayout.createParallelGroup(javax.s
wing.GroupLayout.Alignment.BASELINE)
.addComponent(lastnamelabel)
.addComponent(firstnamelabel,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPl
acement.RELATED)

.addGroup(ineerpanelLayout.createParallelGroup(javax.s
wing.GroupLayout.Alignment.BASELINE)
.addComponent(firstnametextfield,
javax.swing.GroupLayout.PREFERRED_SIZE, 36,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(lastnametextfield,
javax.swing.GroupLayout.PREFERRED_SIZE, 36,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(27, 27, 27)

.addGroup(ineerpanelLayout.createParallelGroup(javax.s
wing.GroupLayout.Alignment.BASELINE)
.addComponent(emaiillabel)
.addComponent(passwordlabel))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPla
cement.RELATED)

.addGroup(ineerpanelLayout.createParallelGroup(javax.s
wing.GroupLayout.Alignment.LEADING, false)
.addComponent(savechangesbutton,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

```

```

        .addGroup(ineerpanelLayout.createParallelGroup(javax.s
            wing.GroupLayout.Alignment.BASELINE)
        .addComponent(emailtextfield,
            javax.swing.GroupLayout.PREFERRED_SIZE, 36,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel_Password,
            javax.swing.GroupLayout.PREFERRED_SIZE, 36,
            javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(72, 72, 72))
    );
}

innerlayeredpane.setLayer(ineerpanel,
    javax.swing.JLayeredPane.DEFAULT_LAYER);

javax.swing.GroupLayout innerlayeredpaneLayout = new
    javax.swing.GroupLayout(innerlayeredpane);
    innerlayeredpane.setLayout(innerlayeredpaneLayout);
    innerlayeredpaneLayout.setHorizontalGroup(
        innerlayeredpaneLayout.createParallelGroup(javax.swing.
            GroupLayout.Alignment.LEADING)
        .addGroup(innerlayeredpaneLayout.createSequentialGroup()
            .addComponent(ineerpanel,
                javax.swing.GroupLayout.PREFERRED_SIZE, 906,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(0, 29, Short.MAX_VALUE))
        );
    innerlayeredpaneLayout.setVerticalGroup(
        innerlayeredpaneLayout.createParallelGroup(javax.swing.
            GroupLayout.Alignment.LEADING)
        .addGroup(innerlayeredpaneLayout.createSequentialGroup()
            .addContainerGap()
            .addComponent(ineerpanel,
                javax.swing.GroupLayout.PREFERRED_SIZE, 515,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
                Short.MAX_VALUE))
        );
}

javax.swing.GroupLayout outerpanelLayout = new
    javax.swing.GroupLayout(outerpanel);
    outerpanel.setLayout(outerpanelLayout);
    outerpanelLayout.setHorizontalGroup(

```

```

        outerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(outerpanelLayout.createSequentialGroup()
        .addGap(40, 40, 40)
        .addComponent(innerlayeredpane,
        javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.DEFAULT_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(27, Short.MAX_VALUE))
        );
        outerpanelLayout.setVerticalGroup(
        outerpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(outerpanelLayout.createSequentialGroup()
        .addGap(30, 30, 30)
        .addComponent(innerlayeredpane,
        javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(44, Short.MAX_VALUE))
        );
        outerlayeredpane.setLayer(outerpanel,
        javax.swing.JLayeredPane.DEFAULT_LAYER);

        javax.swing.GroupLayout outerlayeredpaneLayout = new
        javax.swing.GroupLayout(outerlayeredpane);
        outerlayeredpane.setLayout(outerlayeredpaneLayout);
        outerlayeredpaneLayout.setHorizontalGroup(
        outerlayeredpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(outerlayeredpaneLayout.createSequentialGroup()
        .addComponent(outerpanel,
        javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.DEFAULT_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        outerlayeredpaneLayout.setVerticalGroup(
        outerlayeredpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(outerpanel,
        javax.swing.GroupLayout.DEFAULT_SIZE,
        javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );
    }
}

```

```

);

        javax.swing.GroupLayout layout = new
        javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(outerlayeredpane,
        javax.swing.GroupLayout.PREFERRED_SIZE, 992,
        Short.MAX_VALUE)
        );
        layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(outerlayeredpane)
        );
        displayDetails();
        pack();
        setLocationRelativeTo(null);
    }

    private void
HomebuttonActionPerformed(java.awt.event.ActionEvent evt) {

    HomePage h = new HomePage(this.username);
    h.show();
    dispose();
}

    private void
BooksbuttonActionPerformed(java.awt.event.ActionEvent evt) {

    BooksPage b = new BooksPage(this.username);
    b.show();
    dispose();
}

    private void
PostsbuttonActionPerformed(java.awt.event.ActionEvent evt) {

    Posts p = new Posts(this.username);
}

```

```

        p.show();
        dispose();
    }

    private void TrendingbuttonActionPerformed(java.awt.event.ActionEvent evt) {

        Trending t = new Trending(this.username);
        t.show();
        dispose();
    }

    private void GobackbuttonActionPerformed(java.awt.event.ActionEvent evt) {

        HomePage h = new HomePage(this.username);
        h.show();
        dispose();
    }

    private void emailtextfieldActionPerformed(java.awt.event.ActionEvent evt) {

    }

    private void savechangesbuttonActionPerformed(java.awt.event.ActionEvent evt) {

        String firstname = firstnametextfield.getText();
        String lastname = lastnametextfield.getText();
        String email = emailtextfield.getText();
        String password = String.valueOf(jLabel_Password.getText());

        System.out.println(firstname + " " + lastname + " " + password +
        " ");

        int flag = 0;

        if (firstname.trim().equals("") || lastname.trim().equals("") ||
password.trim().equals("") || email.trim().equals("")) {
            JOptionPane.showMessageDialog(this, "Please don't leave
any field blank.");
            firstnametextfield.setText(firstname);
            lastnametextfield.setText(lastname);
            jLabel_Password.setText(password);
        }
    }
}

```

```

emailtextfield.setText(email);

displayDetails();

pack();

flag = 1;
}

if (flag == 0) {
    try {
        Class.forName("oracle.jdbc.driver.OracleDriver");

        Connection con = DriverManager.getConnection(
            "jdbc:oracle:thin:@localhost:1521:xe","it175","sravya");

        if (firstname != "") {
            PreparedStatement preparedStatement =
con.prepareStatement("UPDATE USERS SET FIRSTNAME=? WHERE
USERNAME='" + username + "'");
            preparedStatement.setString(1, firstname);
            preparedStatement.execute();
        }

        if (lastname != "") {
            PreparedStatement preparedStatement =
con.prepareStatement("UPDATE USERS SET LASTNAME=? WHERE
USERNAME='" + username + "'");
            preparedStatement.setString(1, lastname);
            preparedStatement.execute();
        }

        if (password != "") {
            PreparedStatement preparedStatement =
con.prepareStatement("UPDATE USERS SET PASSWORD=? WHERE
USERNAME='" + username + "'");
            preparedStatement.setString(1, password);
            preparedStatement.execute();
        }

        if (email != "") {
            PreparedStatement preparedStatement =
con.prepareStatement("UPDATE USERS SET EMAIL=? WHERE
USERNAME='" + username + "'");

```

```

                preparedStatement.setString(1, email);
                preparedStatement.execute();
            }

            con.close();

            JOptionPane.showMessageDialog(this, "Update
Successful");

        } catch (Exception exc) {
            System.out.println(exc);
        }
    }
}

private void jButton_LogoutActionPerformed(java.awt.event.ActionEvent evt) {

    javax.swing.ImageIcon icon = new
javax.swing.ImageIcon("src/cutiee.png");
    int a = JOptionPane.showConfirmDialog(this,"Are you sure you
want to logout?","This will redirect to main
screen.",JOptionPane.YES_NO_OPTION ,
JOptionPane.PLAIN_MESSAGE,icon);
    if(a == JOptionPane.YES_OPTION){
        MainOptionsScreen m = new MainOptionsScreen();
        m.show();
        dispose();
    }
    else{
        ;
    }
}

public void displayDetails() {
    try {
        Class.forName("oracle.jdbc.driver.OracleDriver");

        Connection con = DriverManager.getConnection(
"jdbc:oracle:thin:@localhost:1521:xe","it175","sravya");

        Statement stmt=con.createStatement();
        ResultSet rs = stmt.executeQuery("SELECT * FROM
USERS WHERE Username='" + username + "'");
    }
}

```

```

        while(rs.next()) {
            String firstname = rs.getString(2);
            String lastname = rs.getString(3);
            String password = rs.getString(5);
            String email = rs.getString(4);
            firstnametextfield.setText(firstname);
            lastnametextfield.setText(lastname);
            jLabel_Password.setText(password);
            emailtextfield.setText(email);

        }
        con.close();
    }
    catch (Exception exc) {
        System.out.println(exc);
    }
}

private javax.swing.JButton Booksbutton;
private javax.swing.JButton Gobackbutton;
private javax.swing.JButton Homebutton;
private javax.swing.JButton Postsbutton;
private javax.swing.JLabel Settingslabel;
private javax.swing.JButton Trendingbutton;
private javax.swing.JLabel captionlabel;
private javax.swing.JLabel emaillabel;
private javax.swing.JTextField emailtextfield;
private javax.swing.JLabel firstnamelabel;
private javax.swing.JTextField firstnametextfield;
private javax.swing.JTextField firstnametextfield1;
private javax.swing.JPanel ineerpanel;
private javax.swing.JLayeredPane innerlayeredpane;
private javax.swing.JButton jButton_Logout;
private javax.swing.JLabel jLabel1;
private javax.swing.JTextField jLabel_Password;
private javax.swing.JPanel jPanel1;
private javax.swing.JLabel lastnamelabel;
private javax.swing.JTextField lastnametextfield;
private javax.swing.JLayeredPane outerlayeredpane;
private javax.swing.JPanel outerpanel;
private javax.swing.JLabel passwordlabel;
private javax.swing.JButton savechangesbutton;
}

```

8. GITHUB LINKS AND FOLDER STRUCTURE

We have segregated the files of our project into folders namely – src and tables. SRC folder contains all the java files used in our project and the Tables folder contains the images of tables (from database) which we used in our project. Our repository also contains a README file which has a brief description of our project. We have also uploaded report of our project on our github repository.

GitHub repository link: <https://github.com/SravyaReddyArrolla/BookTap>

 SravyaReddyArrolla Add files via upload	bfa17df 31 minutes ago	 3 commits
 Tables Add files via upload	43 minutes ago	
 src Add files via upload	31 minutes ago	
 README.md Initial commit	1 hour ago	

The folder “Tables” contains the following images.

 SravyaReddyArrolla Add files via upload	748159b 15 minutes ago	 History
..		
 Books.png Add files via upload	15 minutes ago	
 Genres.png Add files via upload	15 minutes ago	
 LikedGenres.png Add files via upload	15 minutes ago	
 Posts.png Add files via upload	15 minutes ago	
 Trending.jpg Add files via upload	15 minutes ago	
 Users.png Add files via upload	15 minutes ago	

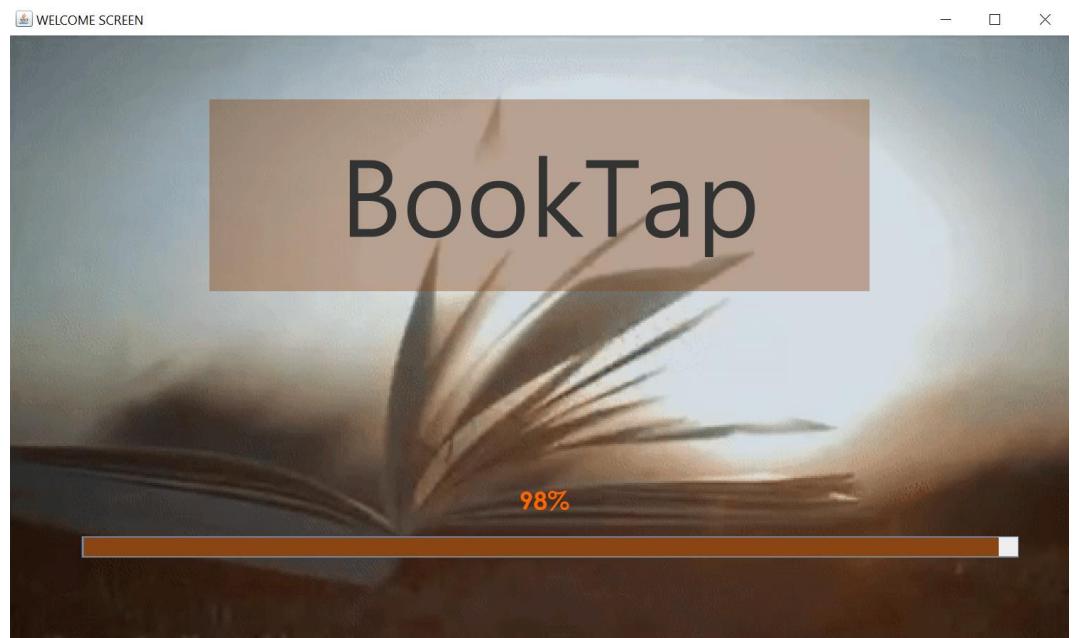
The folder “src” contains the following folders.

 SravyaReddyArrolla Add files via upload	bfa17df 1 minute ago	 History
..		
 Homepage.images Add files via upload	1 minute ago	
 Login_Interests.images Add files via upload	1 minute ago	
 booktap Add files via upload	1 minute ago	
 genres Add files via upload	1 minute ago	
 cutiee.png Add files via upload	1 minute ago	

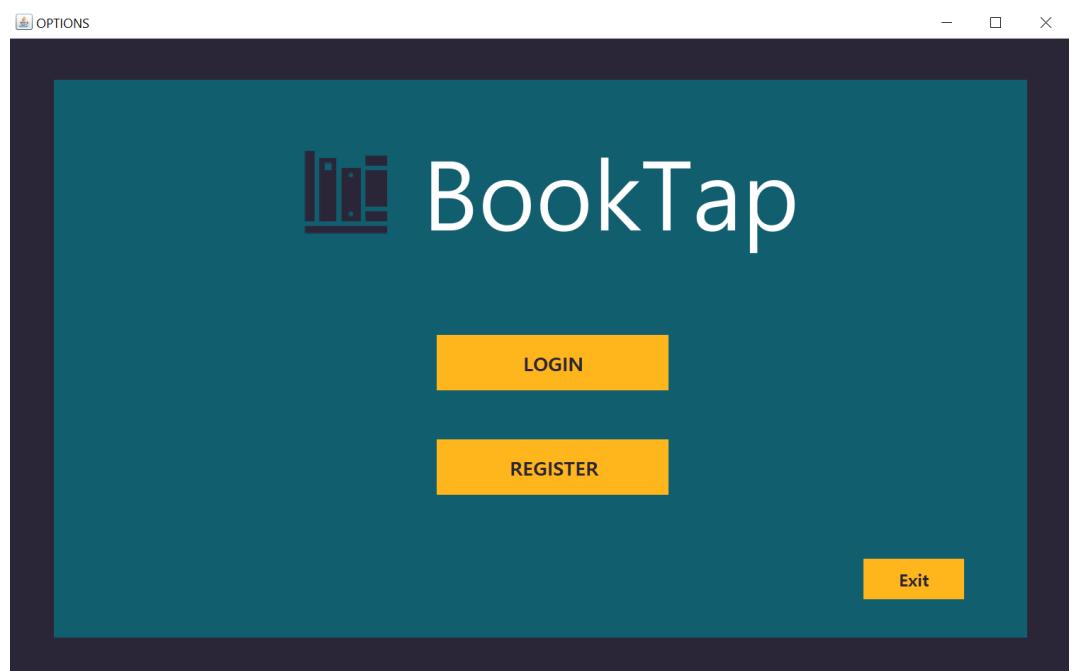
9. TESTING

9.1. SCREENS

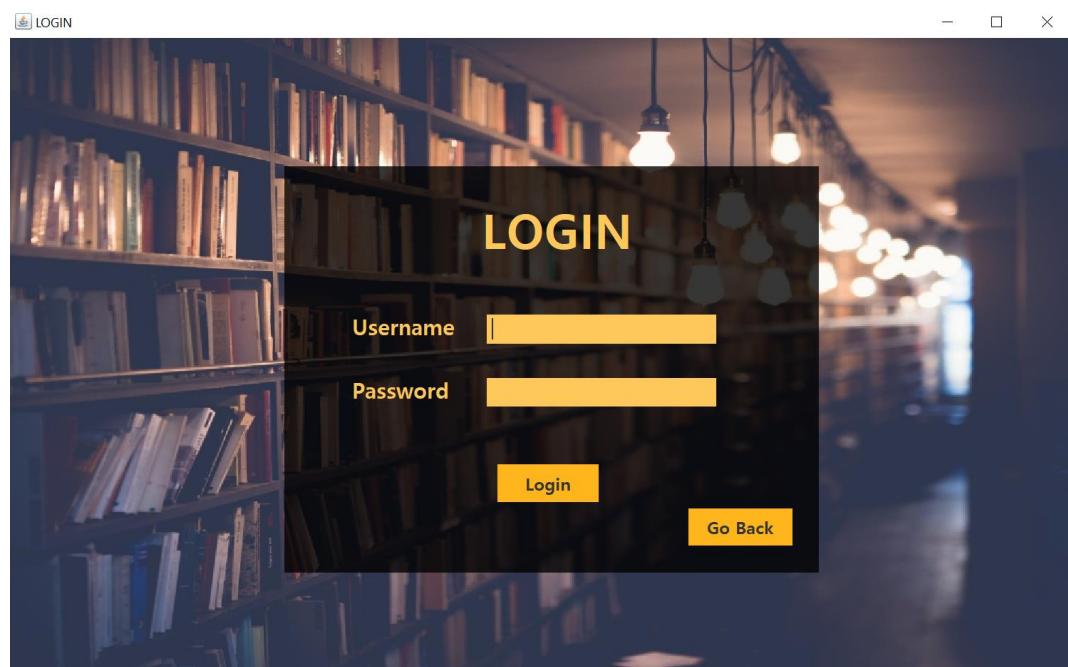
9.1.1. WelcomeSplashScreen.java



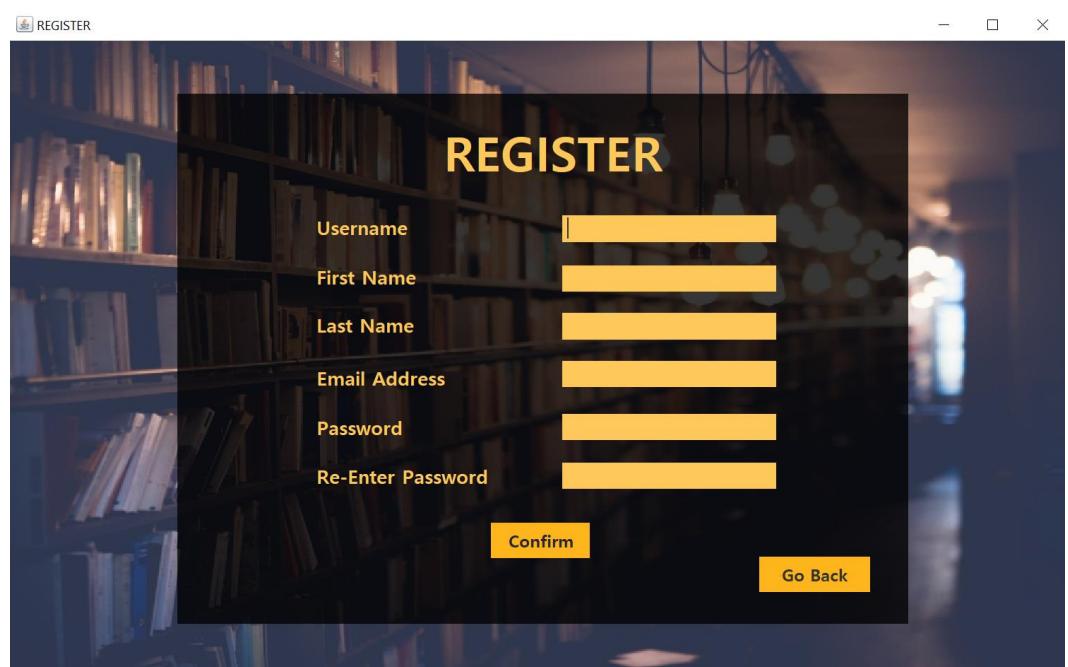
9.1.2. MainOptionsScreen.java



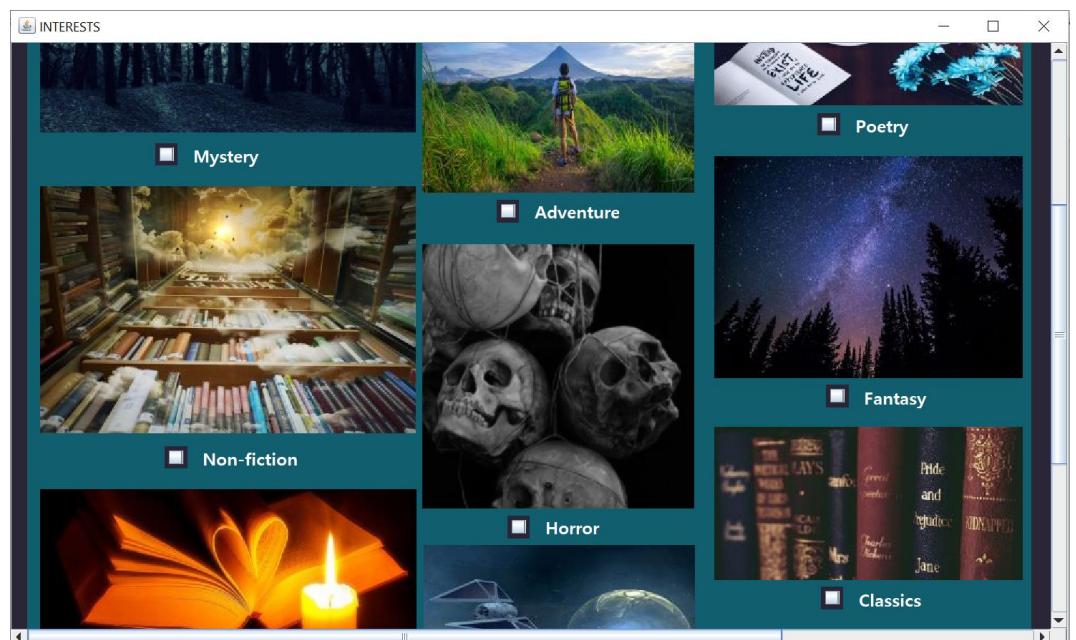
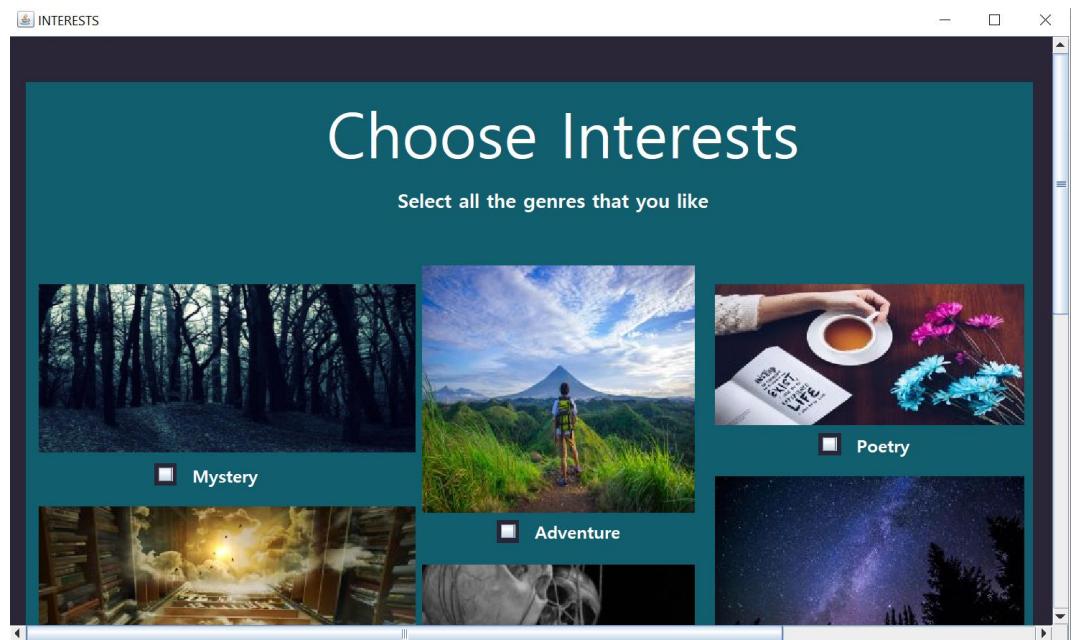
9.1.3. Login.java

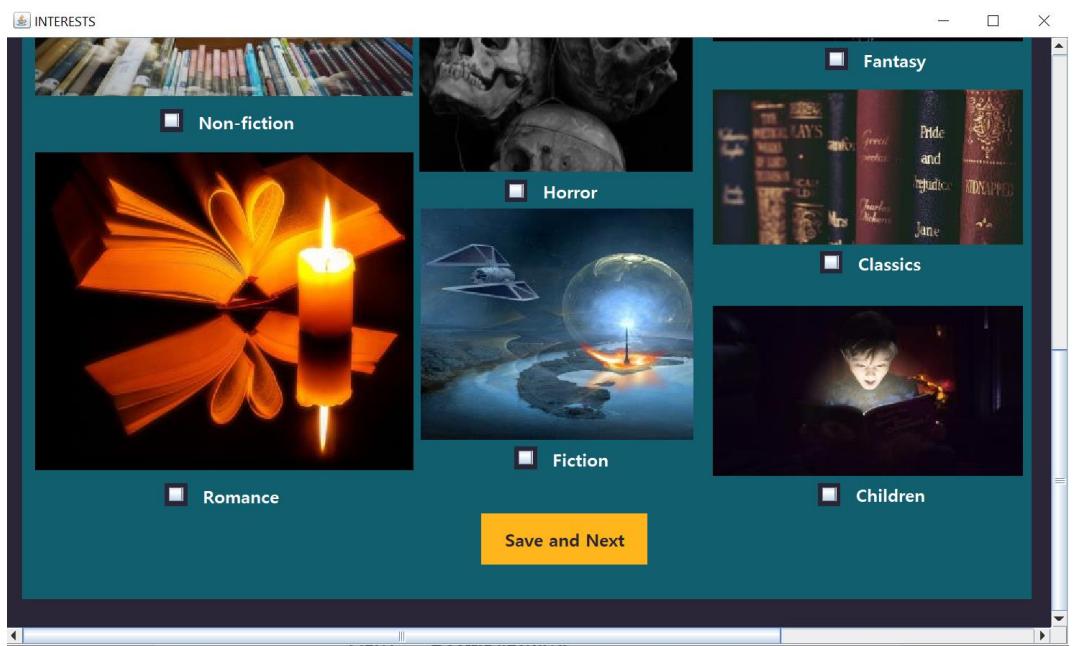


9.1.4. Register.java

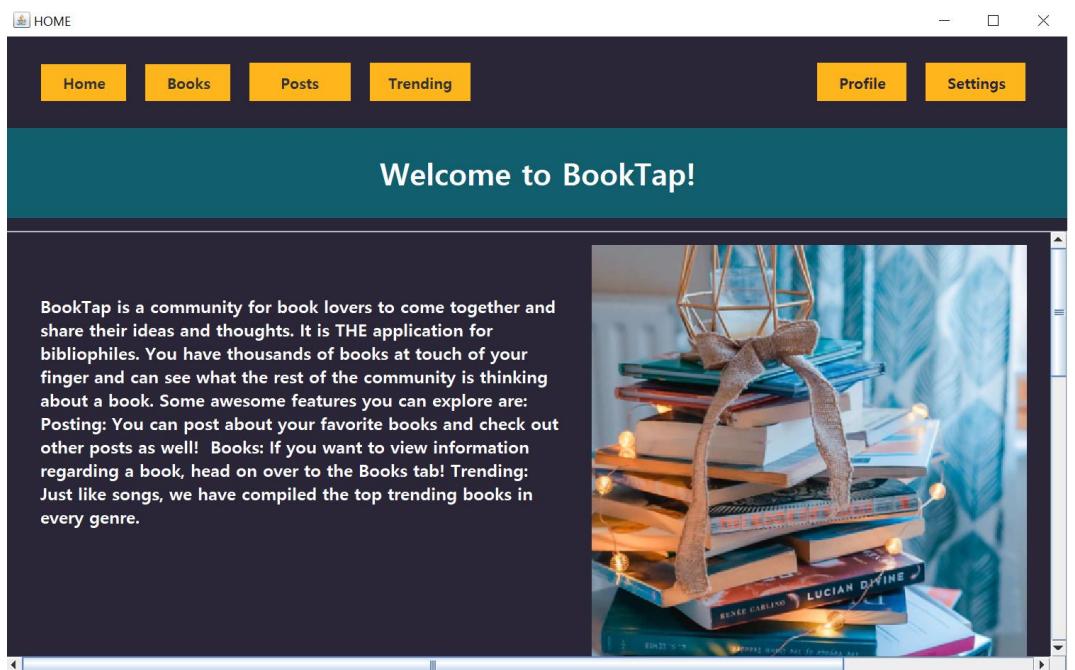


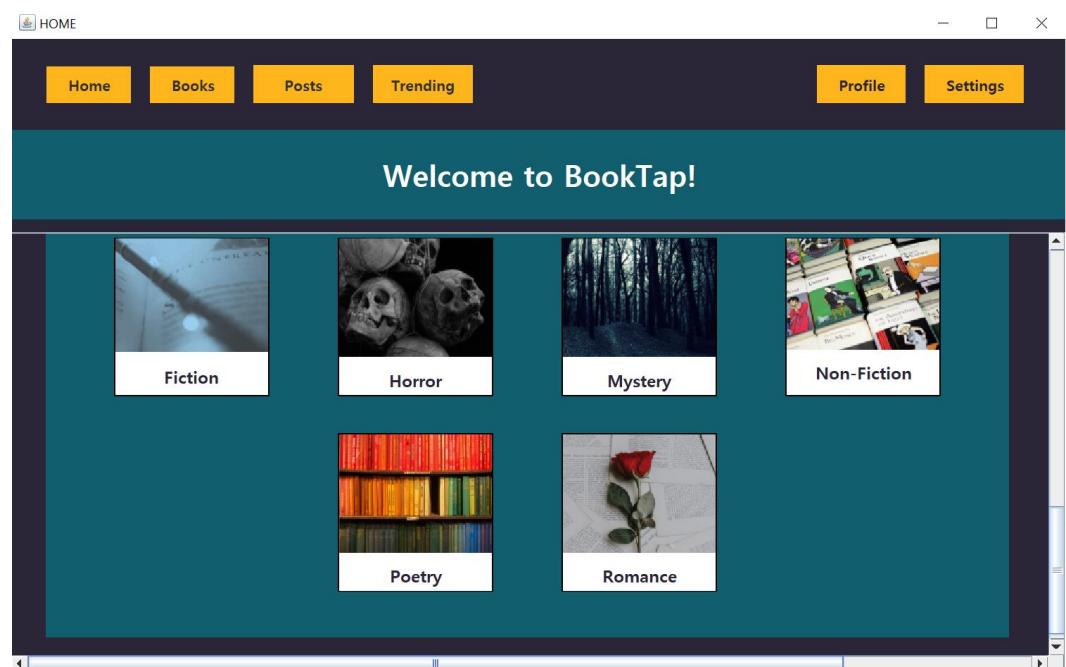
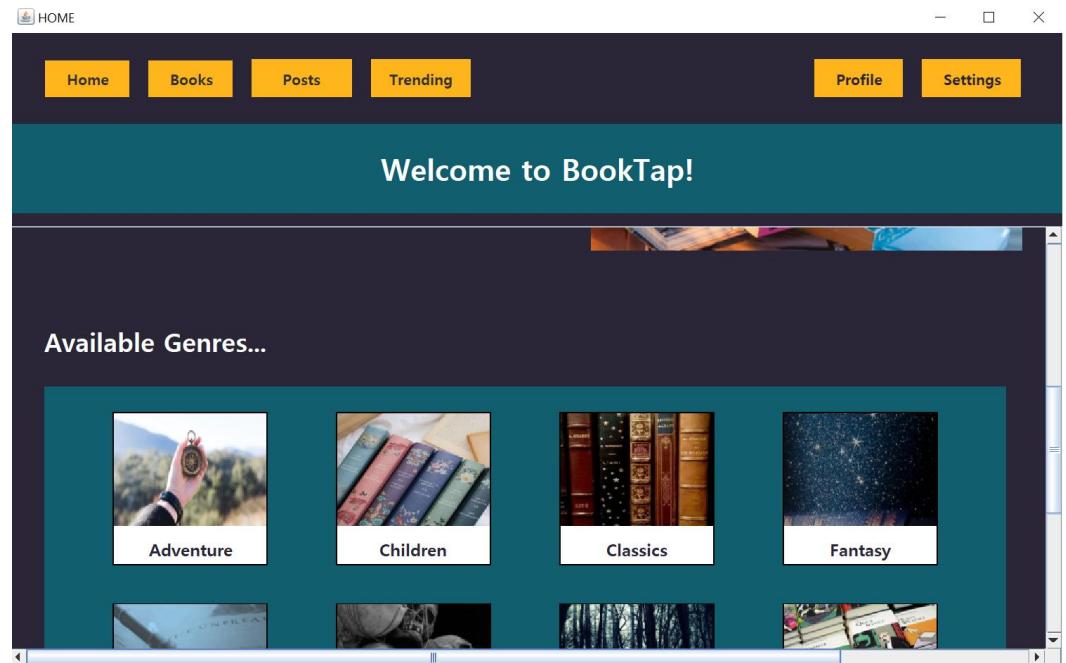
9.1.5. Interests.java





9.1.6. HomePage.java





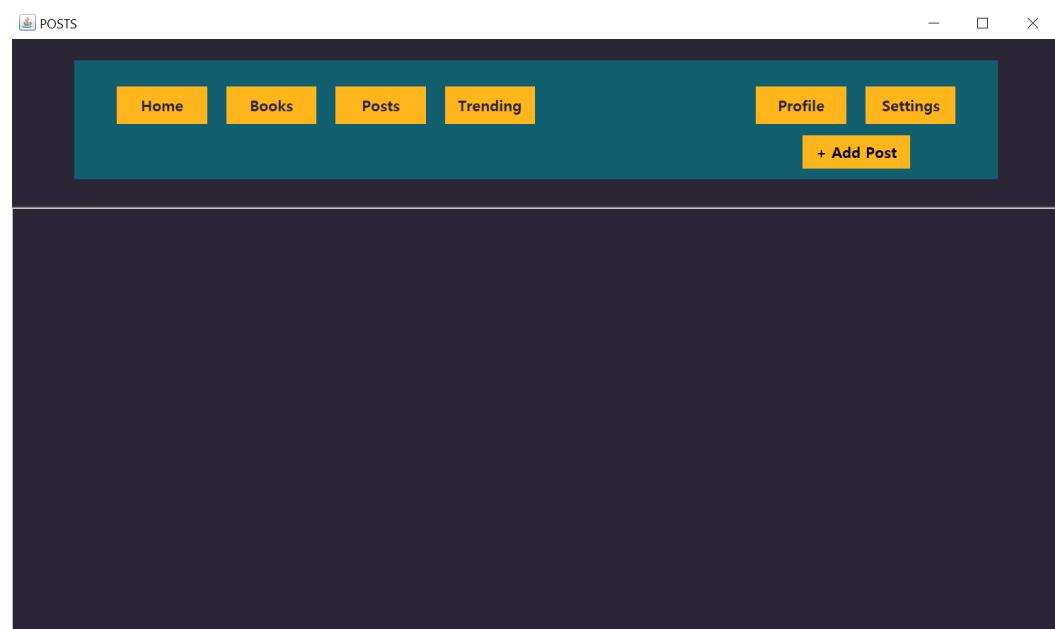
9.1.7. BooksPage.java

The screenshot shows a web-based application interface titled "BOOKS". At the top, there is a navigation bar with buttons for "Home", "Books", "Posts", "Trending", "Profile", and "Settings". Below the navigation bar is a search/filter section with a dropdown menu labeled "Select a Genre..." and a blue button labeled "Apply Filter". The main content area displays a grid of book titles. The grid has two columns and 15 rows. The first row contains "Alexander Hamilton" and "The Rumi Collection". The second row contains "The Complete Sonnets and Poems by William Shakespeare" and "The Poetry of Robert Frost". The third row contains "Jane Eyre" and "The Notebook". The fourth row contains "Gone With The Wind" and "The Proposal". The fifth row contains "The Hobbit" and "Gulliver's Travels". The sixth row contains "Invisible Man" and "The Haunting of Hill House". The seventh row contains "Dracula" and "The Shining". The eighth row contains "The Exorcist" and "IT". The ninth row contains "A Brief History of Time" and "The Diary of a Young Girl". The tenth row contains "Life of Pi" and "Around the World in 80 Days". The eleventh row contains "The Mysterious Island" and "Jungle Book". The twelfth row contains "The Adventures of Tom Sawyer" and "The Tale of Despereaux". The thirteenth row contains "Little Women" and "A Tale of Two Cities". The fourteenth row contains "To Kill a Mockingbird" and "Oliver Twist". The fifteenth row contains "Treasure Island" and "Harry Potter and the Sorcerer's Stone".

Alexander Hamilton	The Rumi Collection
The Complete Sonnets and Poems by William Shakespeare	The Poetry of Robert Frost
Jane Eyre	The Notebook
Gone With The Wind	The Proposal
The Hobbit	Gulliver's Travels
Invisible Man	The Haunting of Hill House
Dracula	The Shining
The Exorcist	IT
A Brief History of Time	The Diary of a Young Girl
Life of Pi	Around the World in 80 Days
The Mysterious Island	Jungle Book
The Adventures of Tom Sawyer	The Tale of Despereaux
Little Women	A Tale of Two Cities
To Kill a Mockingbird	Oliver Twist
Treasure Island	Harry Potter and the Sorcerer's Stone

The screenshot shows a web-based application interface titled "BOOKS". At the top, there is a navigation bar with buttons for "Home", "Books", "Posts", "Trending", "Profile", and "Settings". The main content area features a form for adding a new book. The form includes fields for "Book Name:", "Author Name:", "Genre:", and "Publisher:", each with a corresponding input field. Below these fields is a larger text area labeled "Book Summary:".

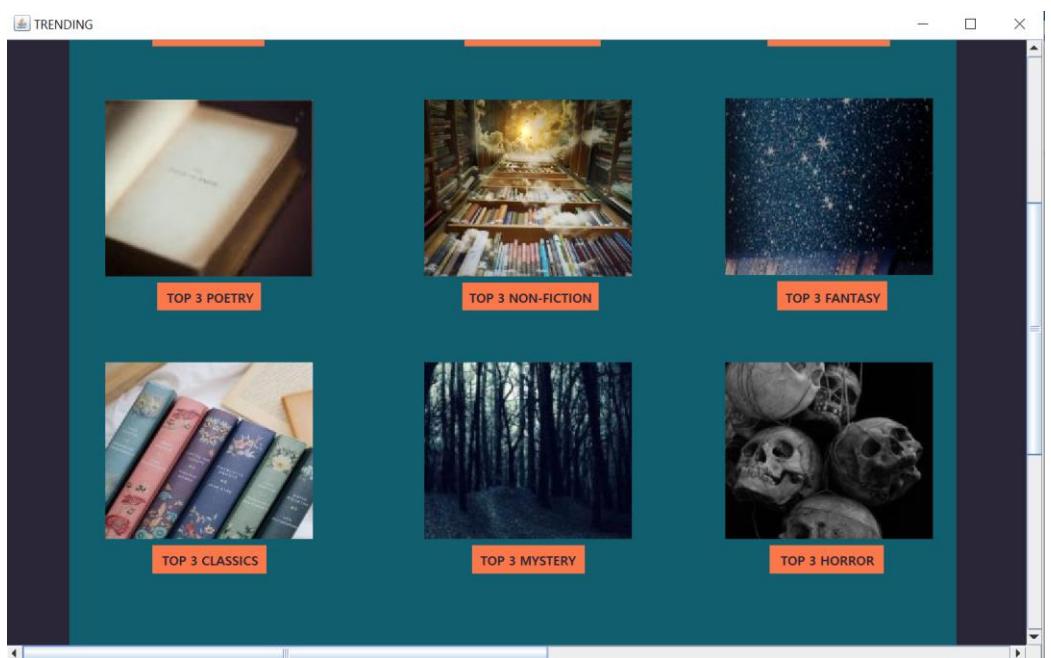
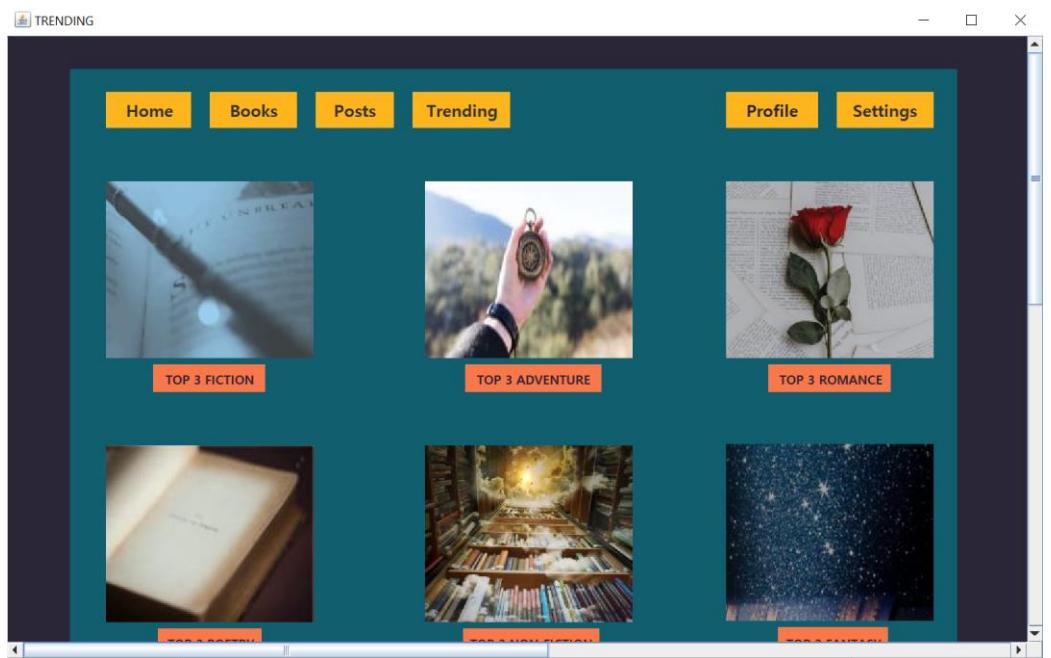
9.1.8. Posts.java



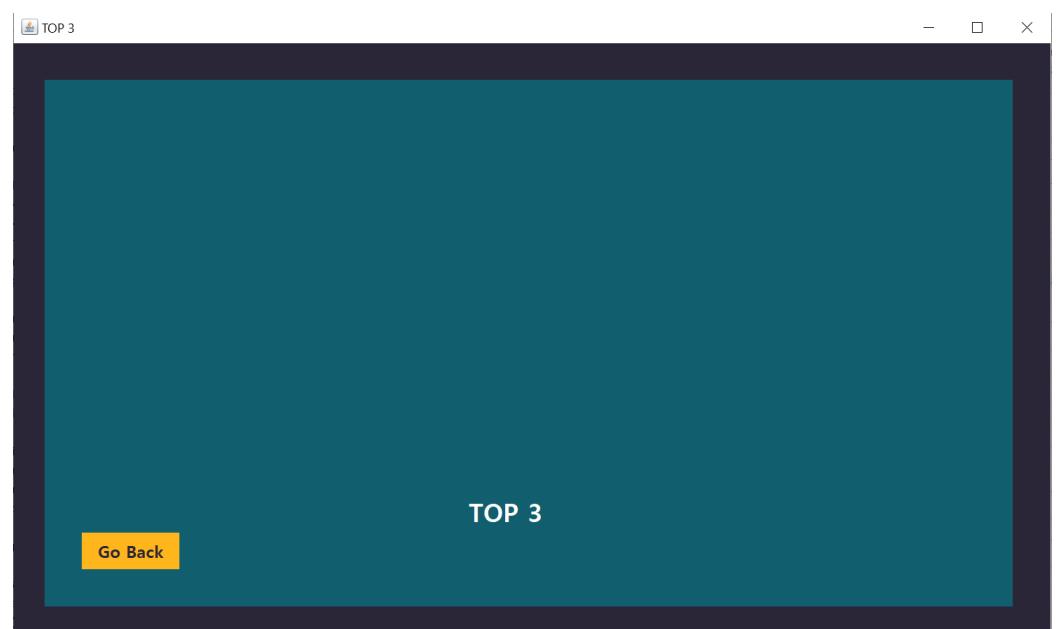
9.1.9. AddPost.java

A screenshot of a web application window titled "NEW POST". The title "New Post" is centered at the top. Below it is a form with several input fields and buttons. The fields are: "Book name" (text input), "Book author" (text input), "Genre" (text input), "Book review" (text input), "Rating" (text input), and "Image" (with "Upload" and "image path" sub-fields). At the bottom are two yellow buttons: "Go Back" on the left and "Submit" on the right.

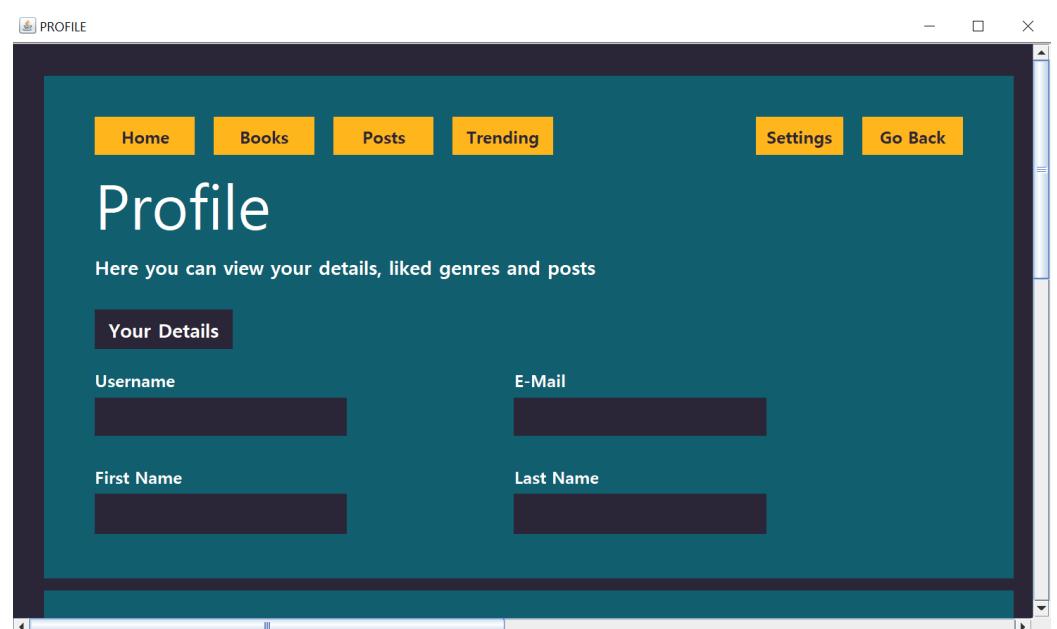
9.1.10. Trending.java



9.1.11. TrendList.java

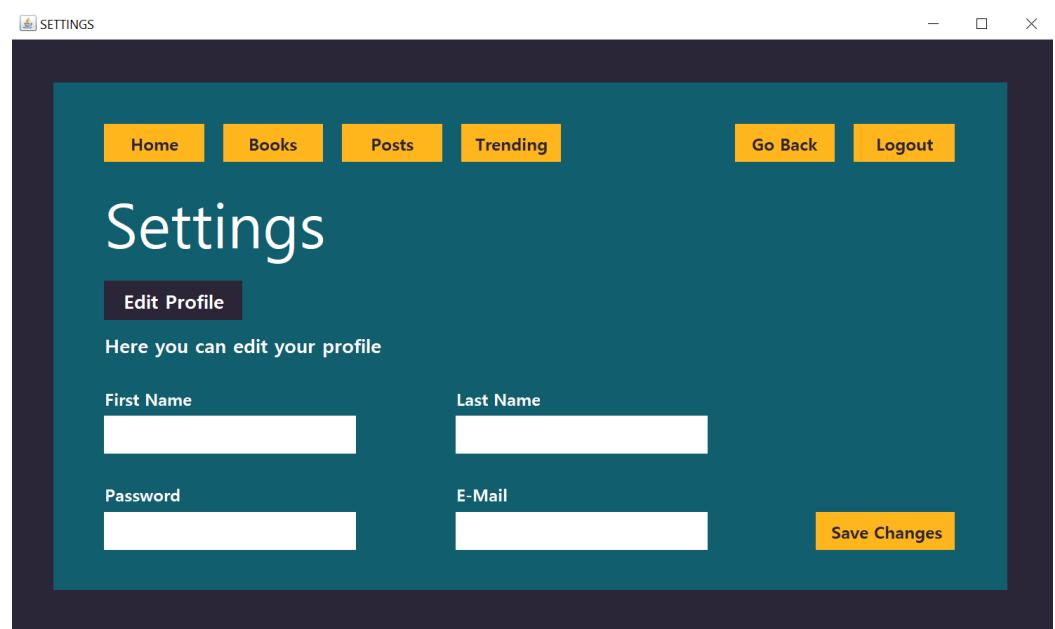


9.1.12. Profile.java



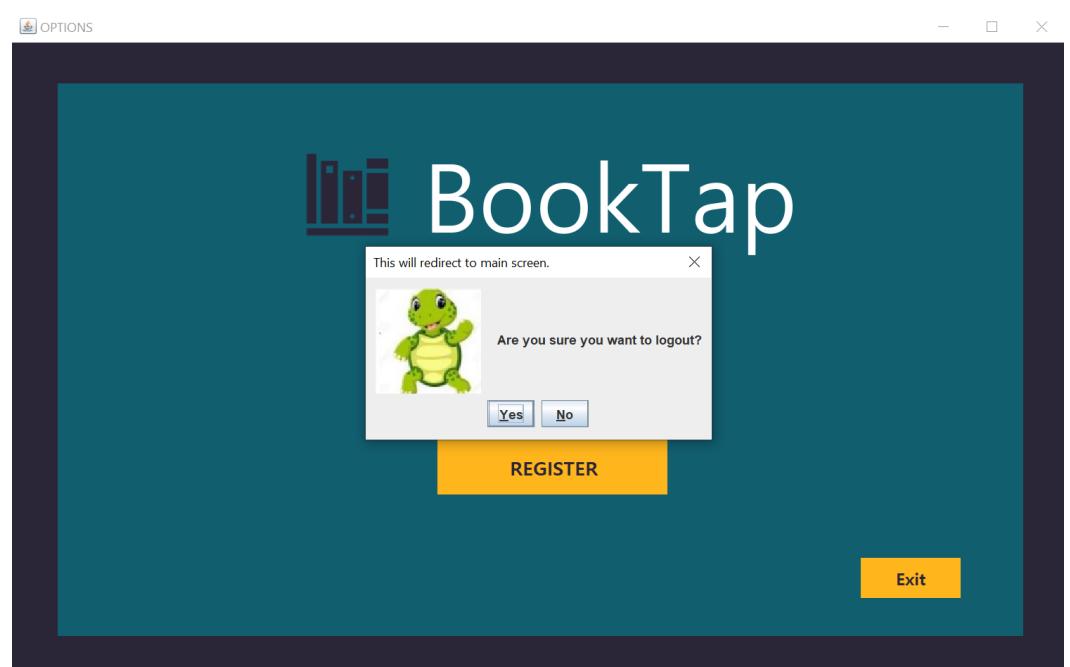
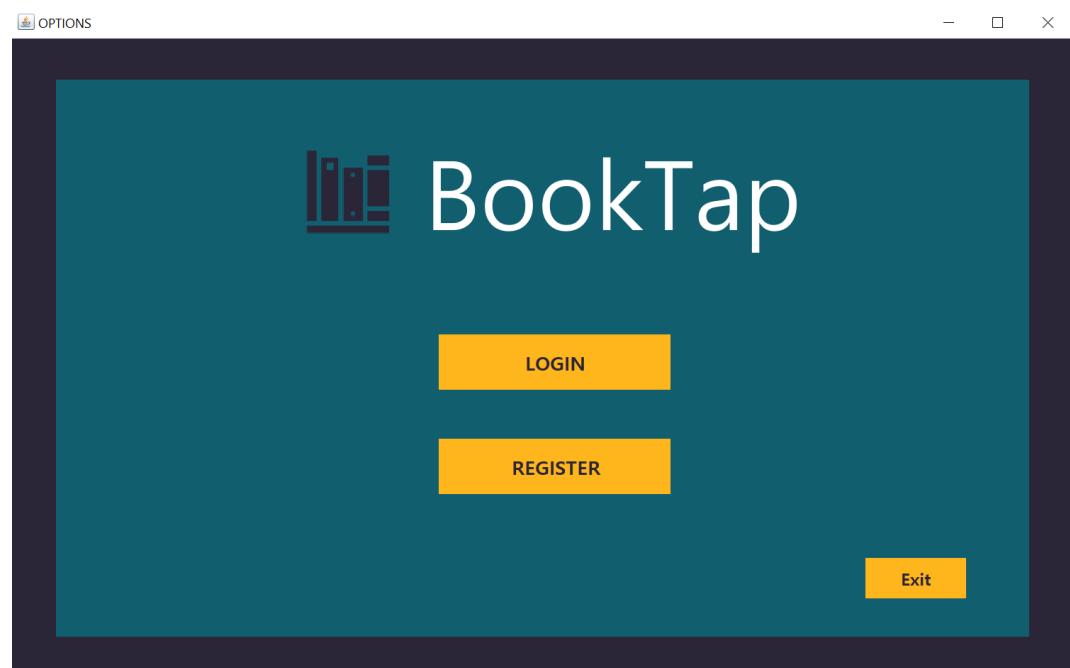


9.1.13. Settings.java

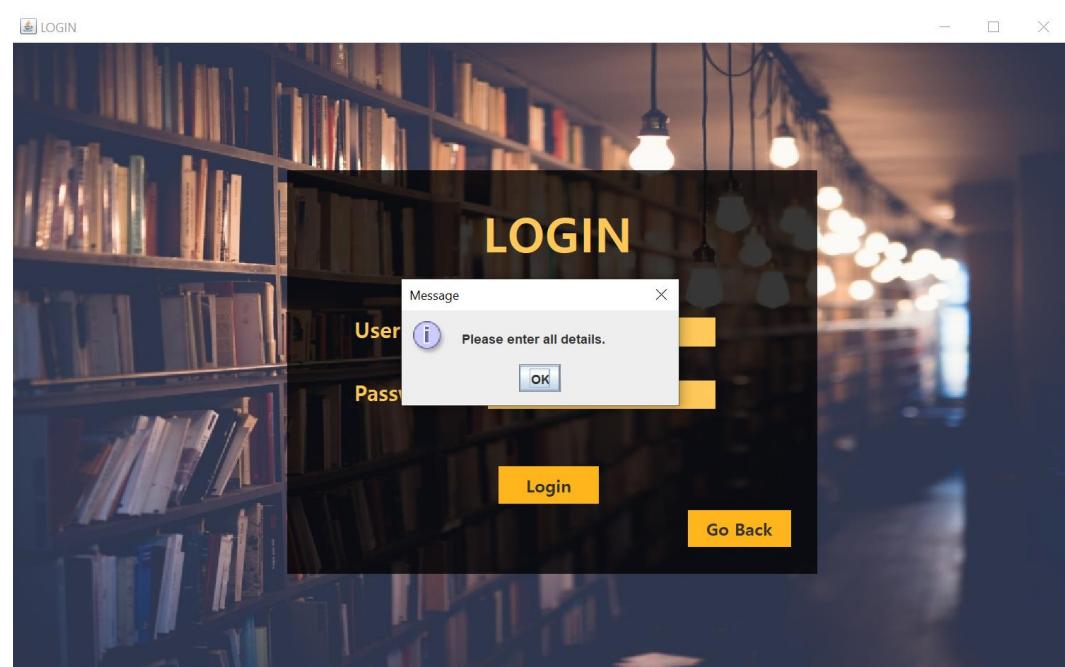
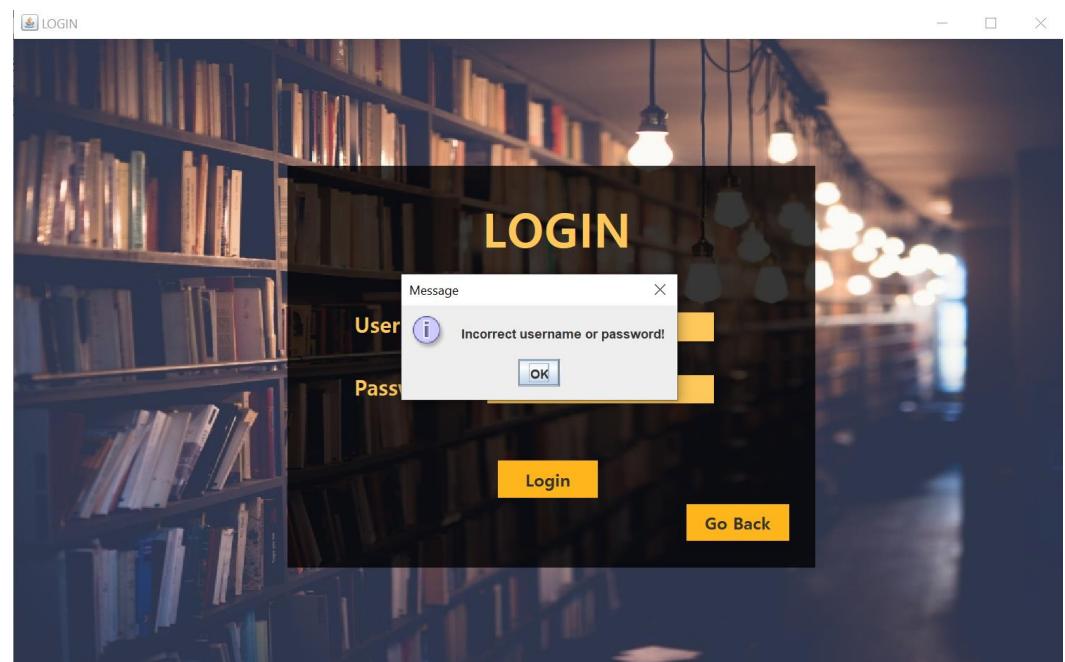


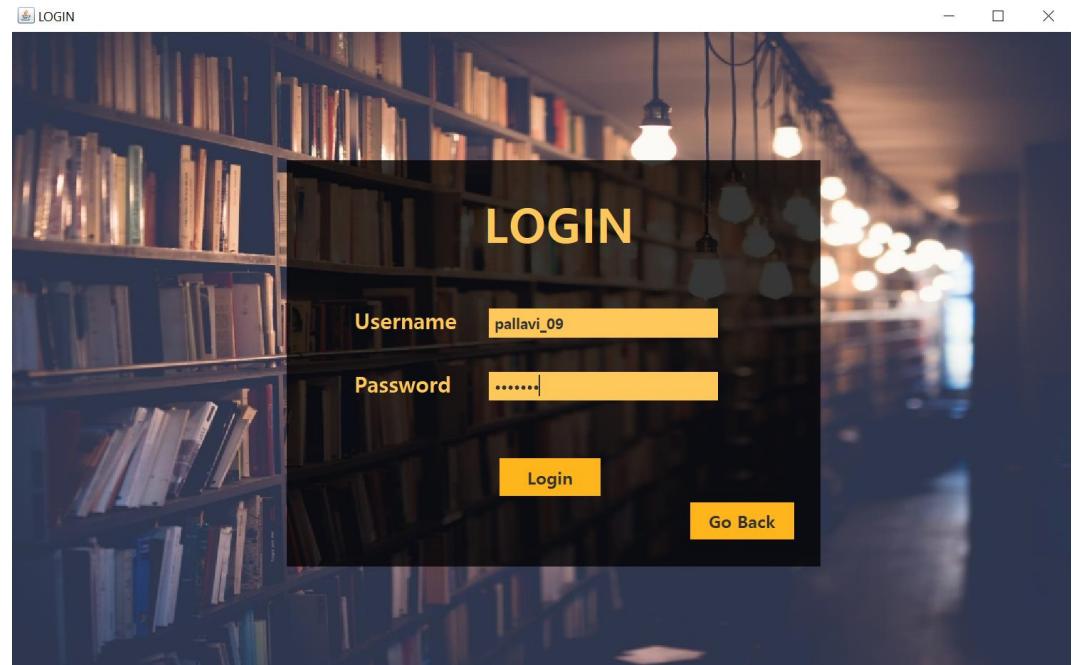
9.2. OUTPUT TESTCASES

9.2.1. MainOptionsScreen.java

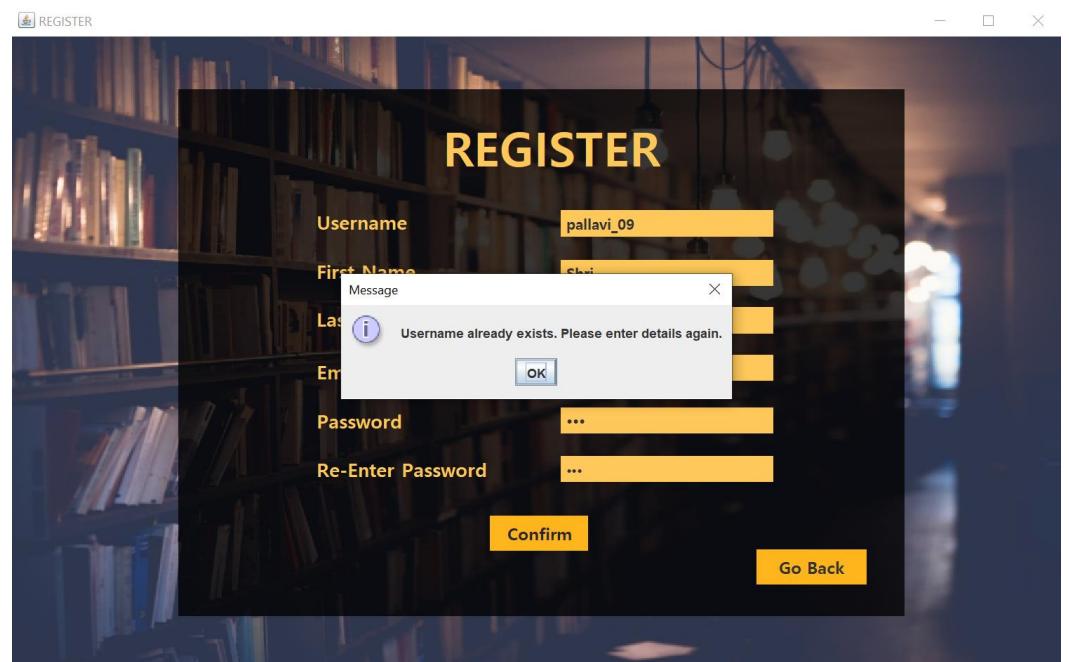


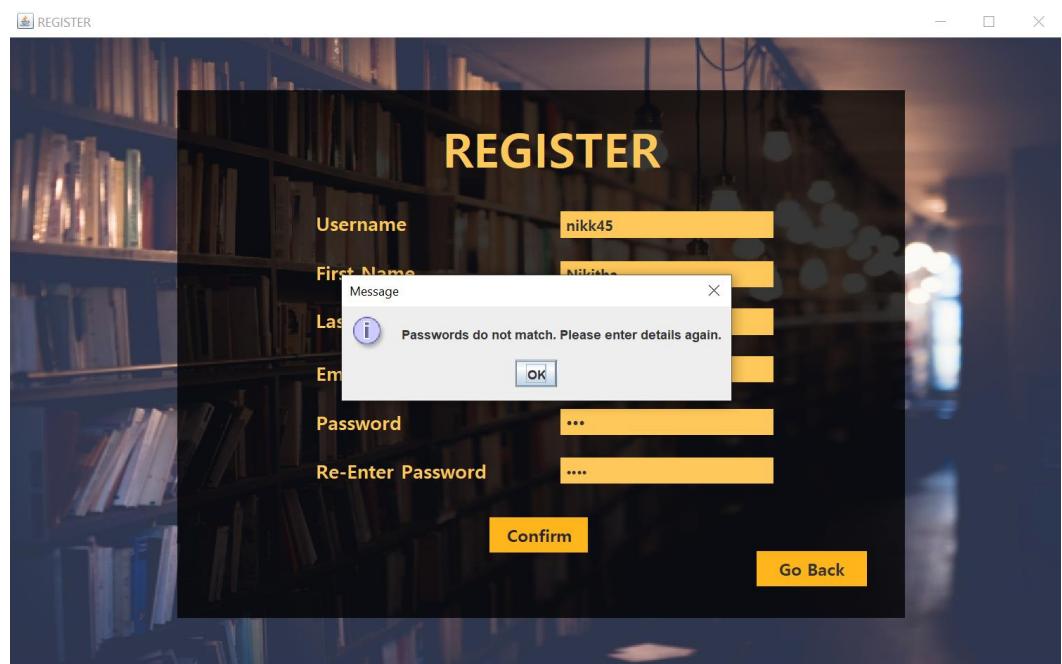
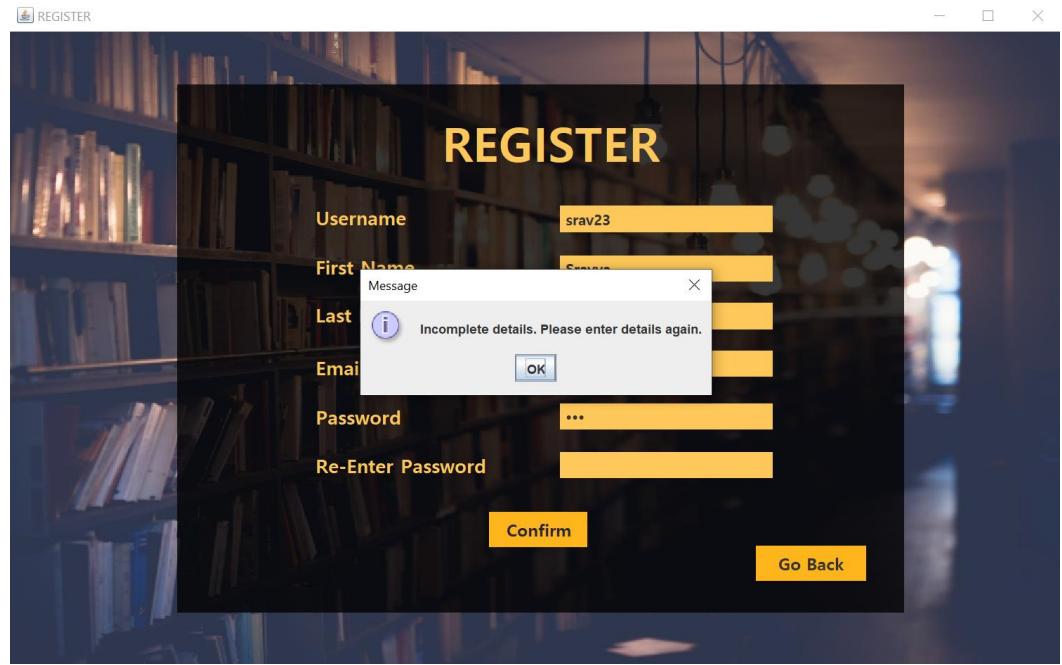
9.2.2. Login.java

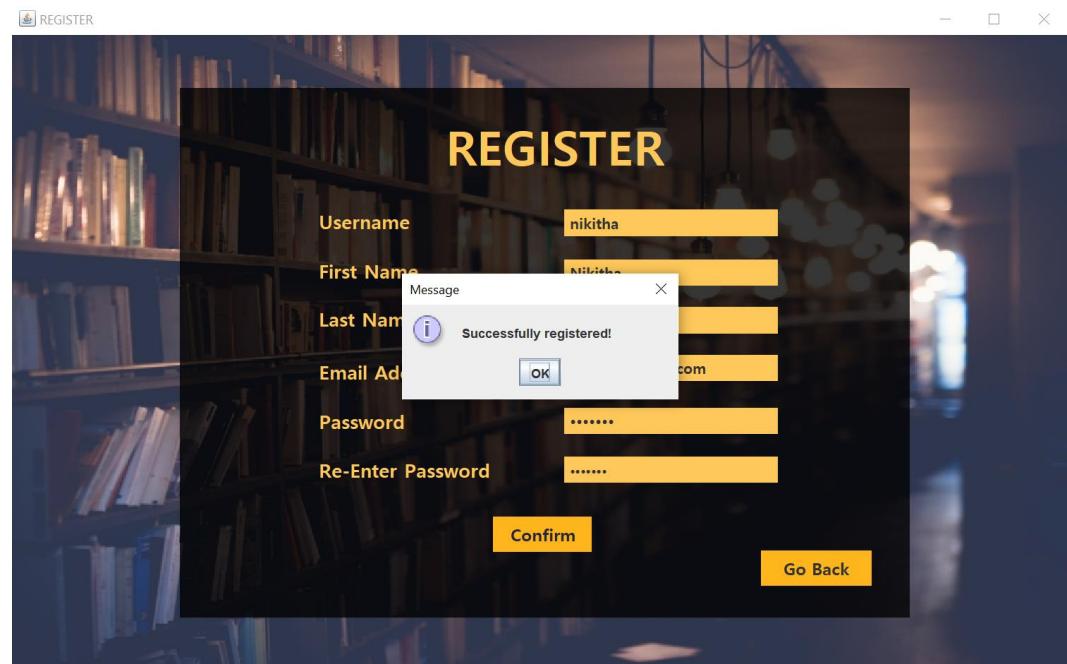




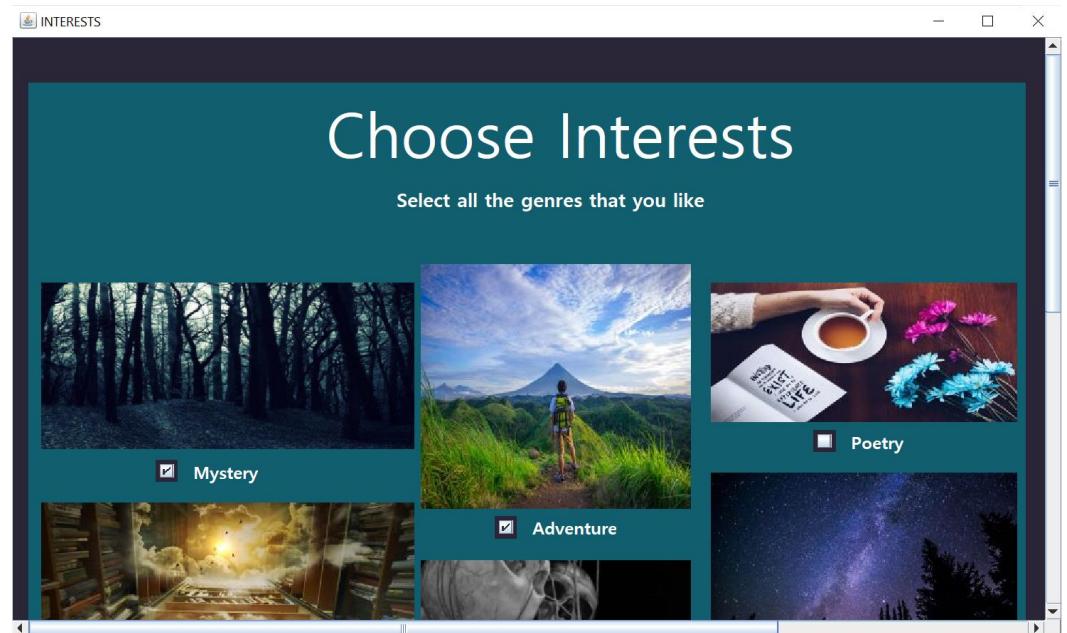
9.2.3. Register.java

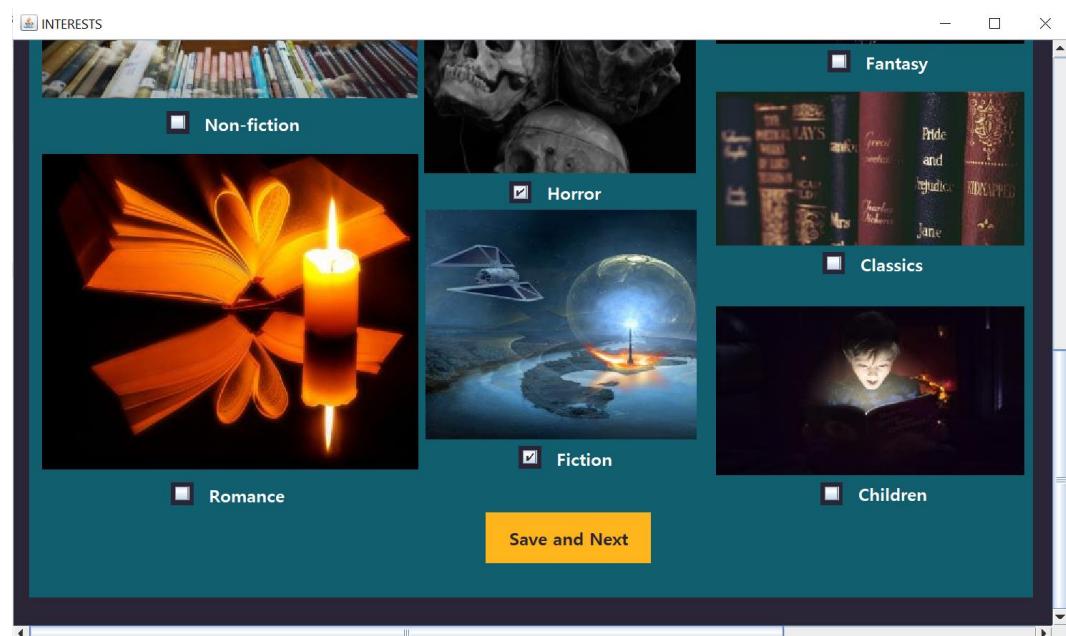
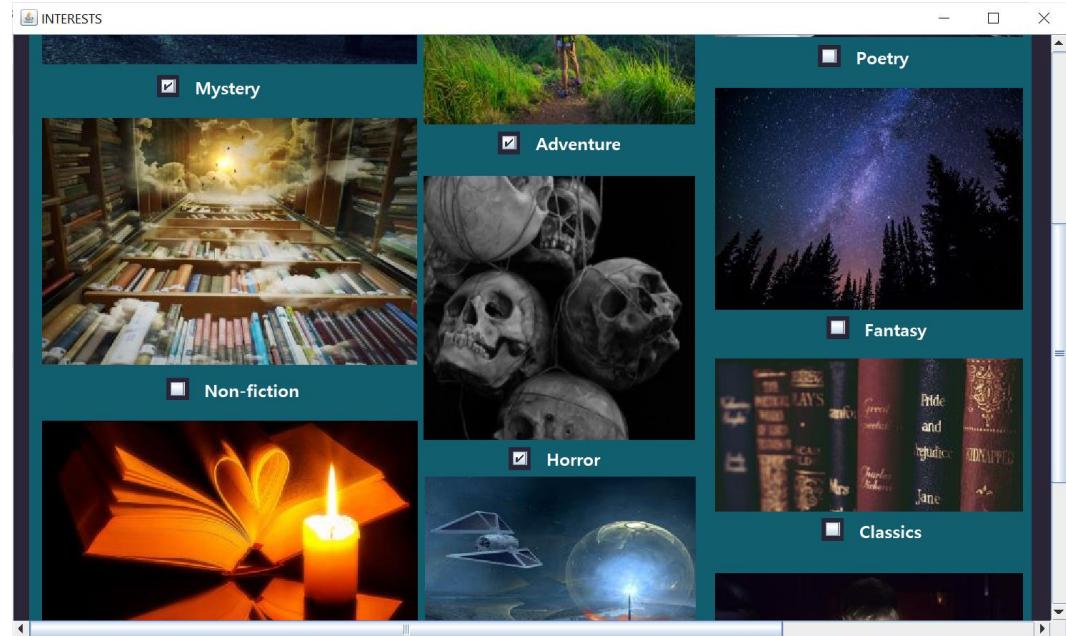




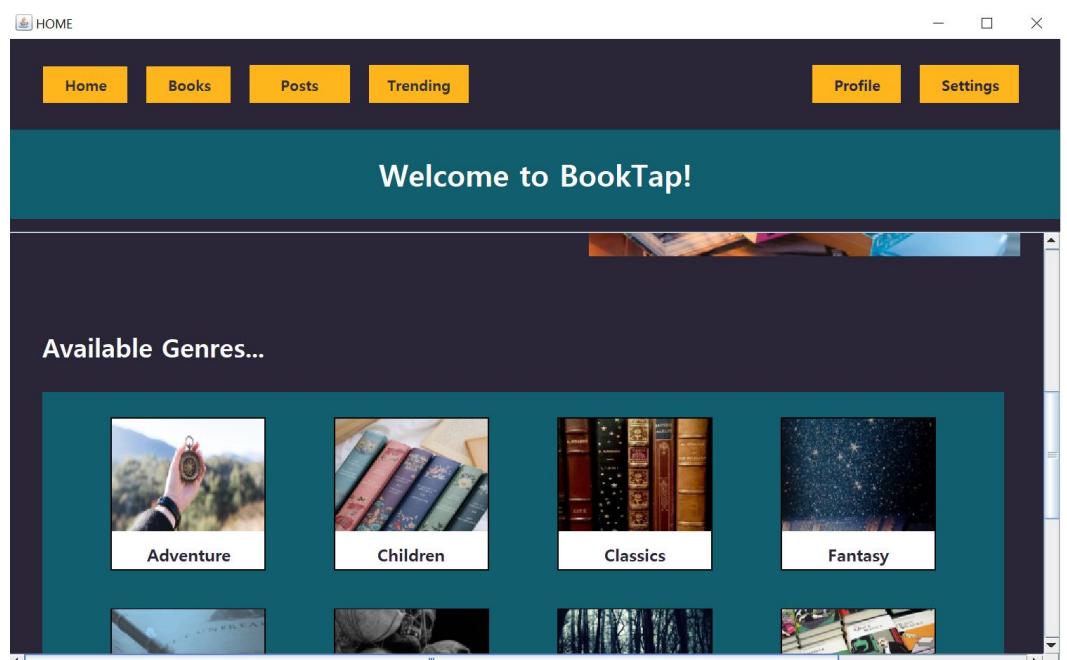
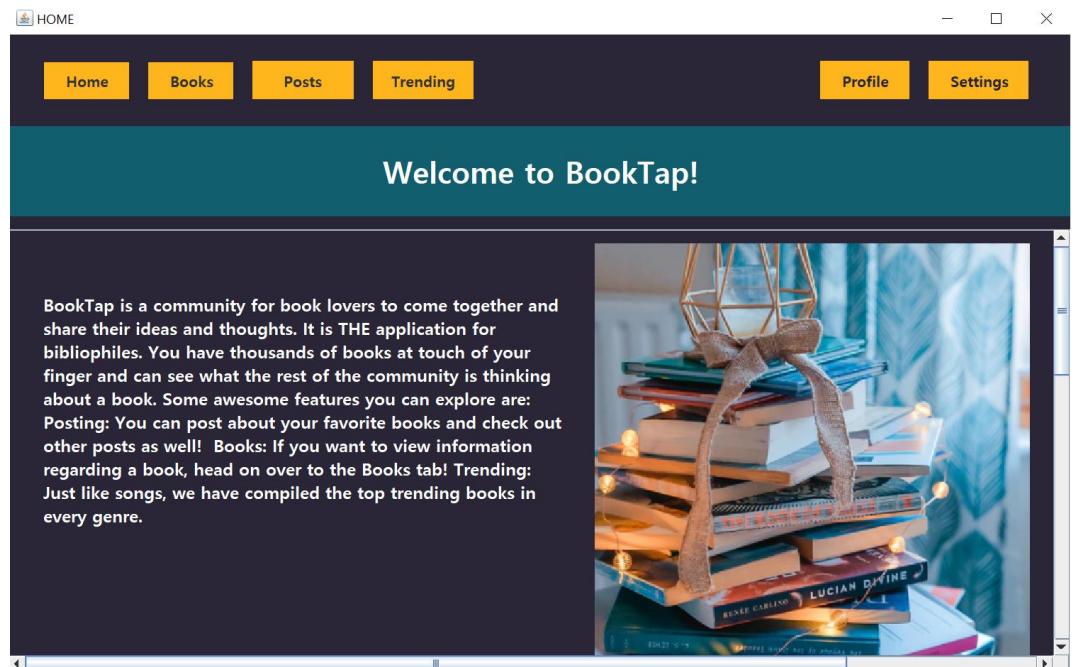


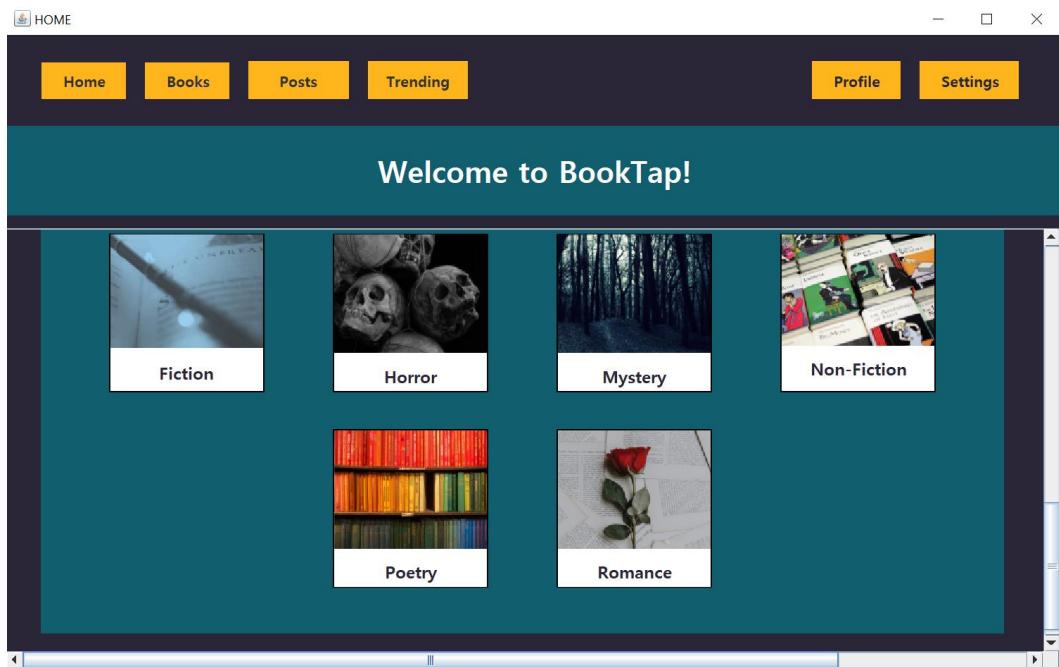
9.2.4. Interests.java





9.2.5. HomePage.java





9.2.6. BooksPage.java

A screenshot of the BooksPage.java interface. At the top, there's a dark header bar with a "BOOKS" icon and the word "BOOKS". Below the header are four yellow buttons: "Home", "Books", "Posts", and "Trending". On the right side of the header are two more yellow buttons: "Profile" and "Settings". The main content area has a dark background. At the top left, there's a dropdown menu labeled "Select a Genre..." with a downward arrow. To its right is a blue button labeled "Apply Filter". Below these controls is a table with two columns, displaying a list of book titles. The table has a light teal header row. The first column contains the following titles:

- Alexander Hamilton
- The Complete Sonnets and Poems by William Shakespeare
- Jane Eyre
- Gone With The Wind
- The Hobbit
- Invisible Man
- Dracula
- The Exorcist
- A Brief History of Time
- Life of Pi
- The Mysterious Island
- The Adventures of Tom Sawyer
- Little Women
- To Kill a Mockingbird

The second column contains the following titles:

- The Rumi Collection
- The Poetry of Robert Frost
- The Notebook
- The Proposal
- Gulliver's Travels
- The Haunting of Hill House
- The Shining
- IT
- The Diary of a Young Girl
- Around the World in 80 Days
- Jungle Book
- The Tale of Despereaux
- A Tale of Two Cities
- Oliver Twist

BOOKS

Home Books Posts Trending Profile Settings

Book Name: Alexander Hamilton

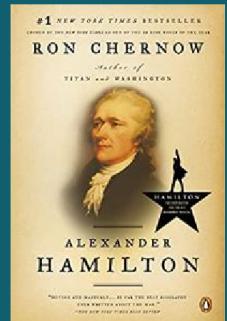
Author Name: Ron Chernow

Genre: Non-Fiction

Publisher: Penguin Press

Book Summary:

It is a 2004 biography of American statesman Alexander Hamilton, written by historian and biographer Ron Chernow. Hamilton, one of the Founding Fathers of the United States, was an instrumental promoter of the U.S. Constitution, founder of the nation's financial system, and its first Secretary of the Treasury.

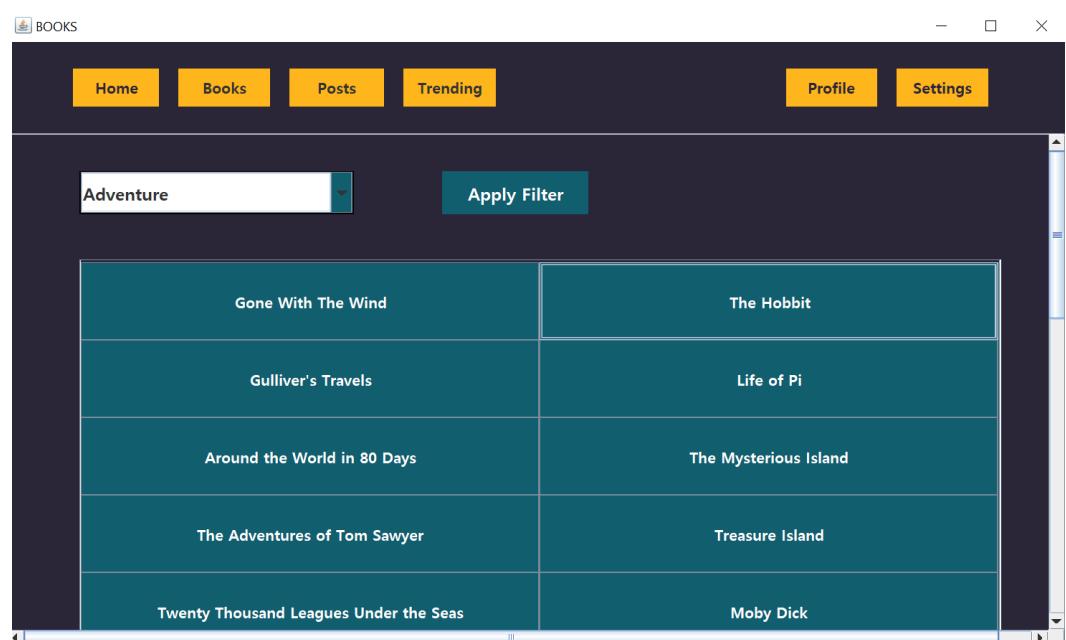
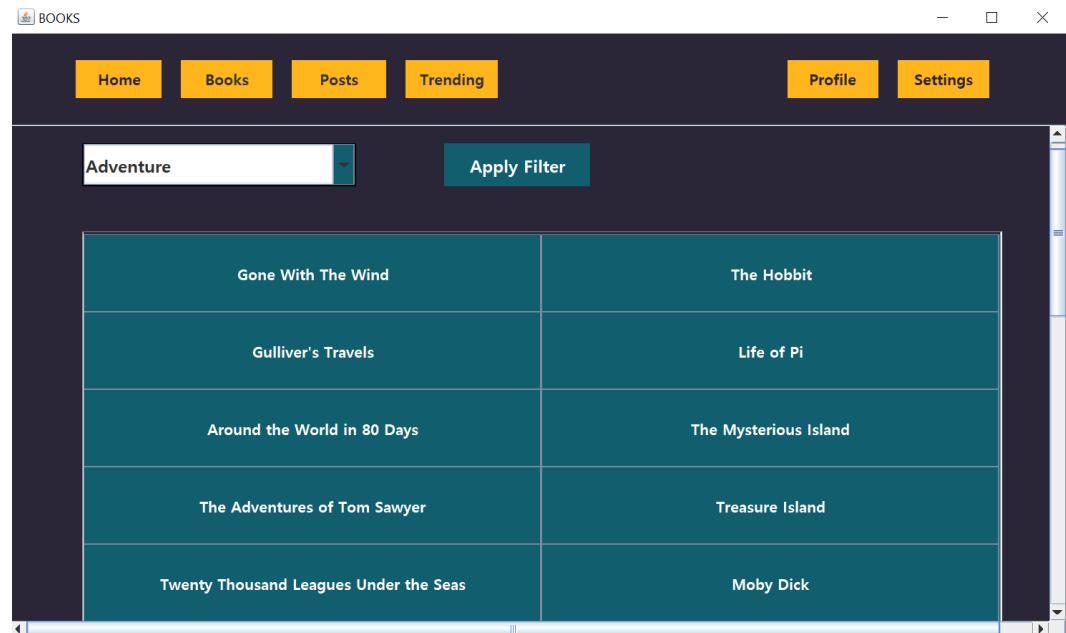


BOOKS

Home Books Posts Trending Profile Settings

Select a Genre... | **Apply Filter**

Genre	Book Title	Author
Adventure	The Rumi Collection	The Poetry of Robert Frost
Children	The Notebook	The Proposal
Classics	Gulliver's Travels	The Haunting of Hill House
Fantasy	The Shining	IT
Fiction	The Diary of a Young Girl	The Tale of Despereaux
Horror	Around the World in 80 Days	Jungle Book
Mystery	The Adventures of Tom Sawyer	A Tale of Two Cities
	Life of Pi	Oliver Twist
	The Mysterious Island	
	Little Women	
	To Kill a Mockingbird	



BOOKS

Home Books Posts Trending Profile Settings

Book Name: The Hobbit

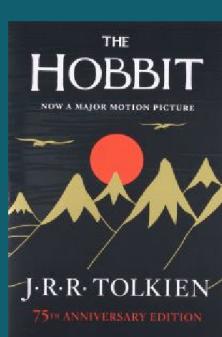
Author Name: J.R.R. Tolkien

Genre: Fiction Fantasy Adventure

Publisher: George Allen and Unwin

Book Summary:

One day while grading essays, JRR Tolkien wrote, "In a hole in the ground lived a hobbit," on the back of a student's paper. That single sentence launched this beloved children's story about one unwilling hobbit who is dragged there (and back again) onto an adventure to the Misty Mountains.

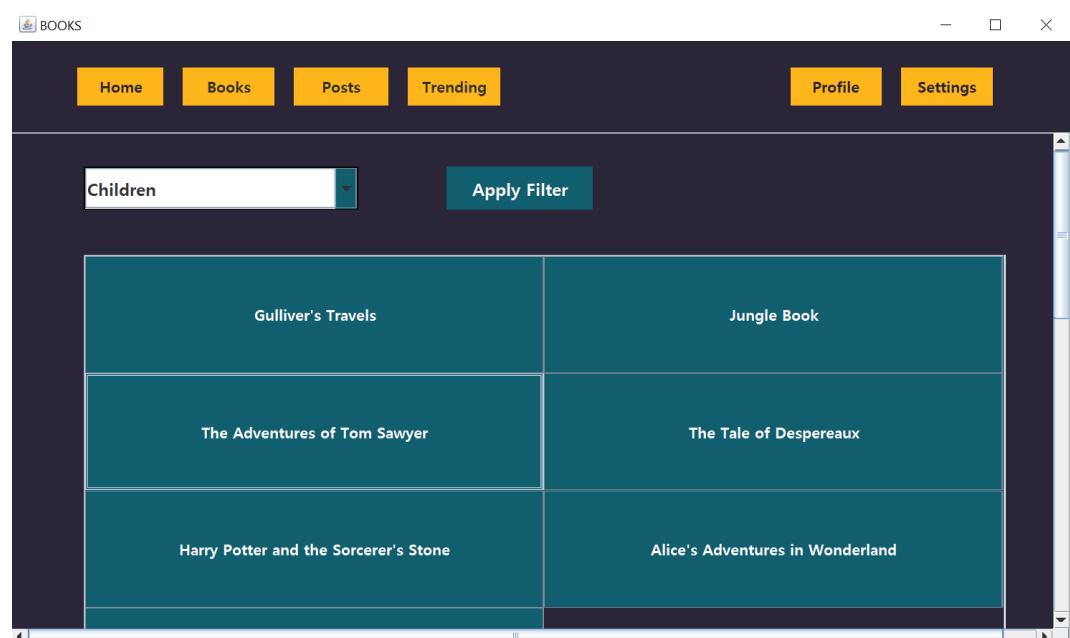
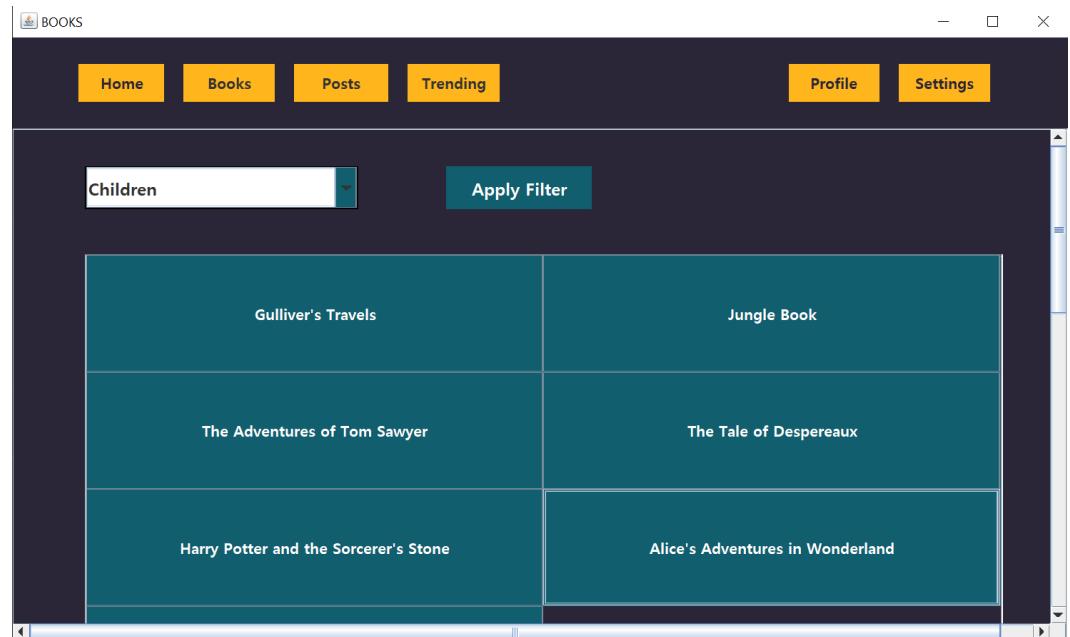


BOOKS

Home Books Posts Trending Profile Settings

Select a Genre...

Genre	Book Title	Author
Adventure	The Hobbit	J.R.R. Tolkien
Children	Charlotte's Web	E.B. White
Classics	Hamlet	William Shakespeare
Fantasy	The Lord of the Rings	J.R.R. Tolkien
Fiction	Gone with the Wind	Margaret Mitchell
Horror	Dracula	Bram Stoker
Mystery	The Exorcist	William Peter Blatty
	A Brief History of Time	Stephen Hawking
	Life of Pi	Yann Martel
	The Mysterious Island	Jules Verne
	The Adventures of Tom Sawyer	Mark Twain
	Little Women	Louis May Alcott
	To Kill a Mockingbird	Harper Lee
	The Rumi Collection	Rumi
	The Poetry of Robert Frost	Robert Frost
	The Notebook	Natalie้อ
	The Proposal	Dan Brown
	Gulliver's Travels	Jonathan Swift
	The Haunting of Hill House	Henry James
	The Shining	Stephen King
	IT	Stephen King
	The Diary of a Young Girl	Anne Frank
	Around the World in 80 Days	Jules Verne
	Jungle Book	Rudyard Kipling
	The Tale of Despereaux	Beatrix Potter
	A Tale of Two Cities	Charles Dickens
	Oliver Twist	Charles Dickens



BOOKS

Home Books Posts Trending Profile Settings

Book Name: The Adventures of Tom Sawyer

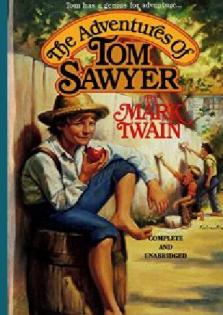
Author Name: Mark Twain

Genre: Children Adventure

Publisher: American Publishing Company

Book Summary:

The Adventures of Tom Sawyer is an 1876 novel by Mark Twain about a boy growing up along the Mississippi River. It is set in the 1840s in the town of St. Petersburg, which is based on Hannibal, Missouri, where Twain lived as a boy.

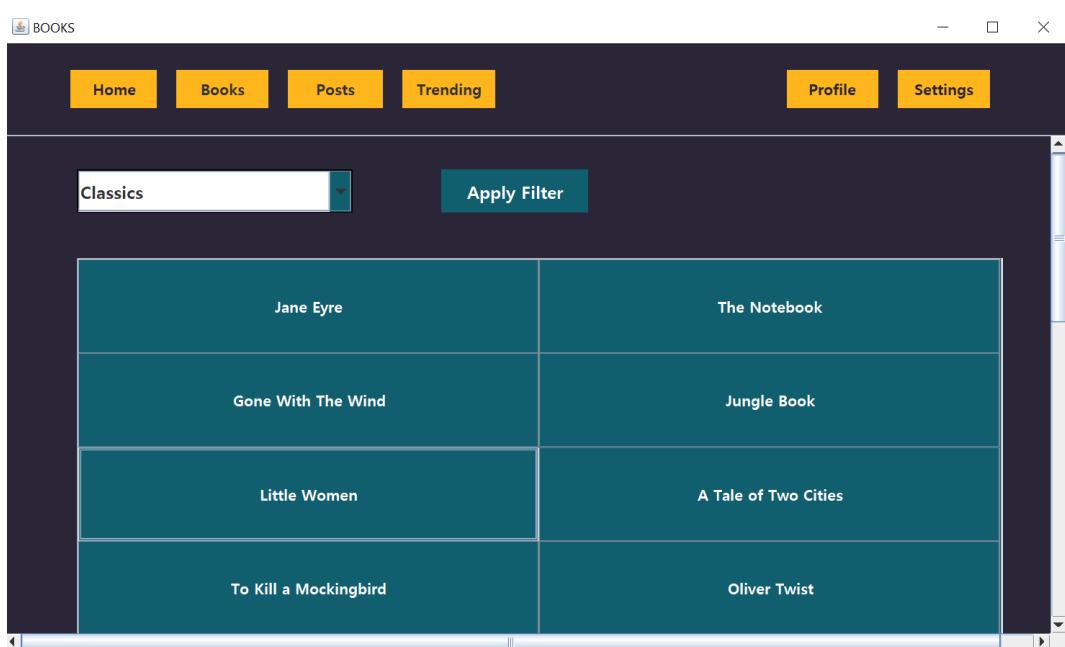
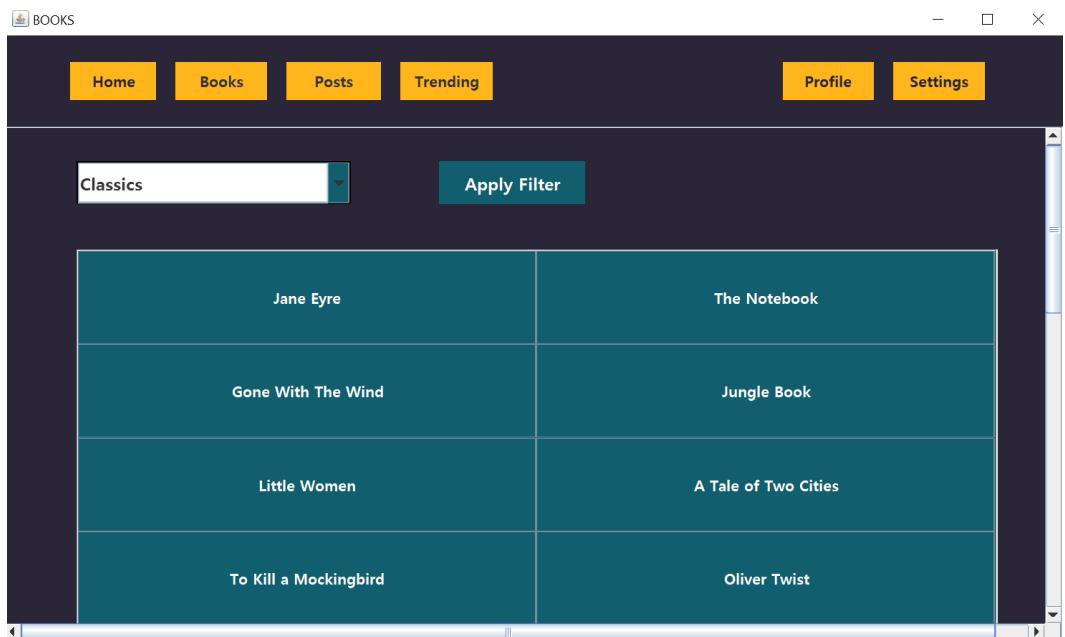


BOOKS

Home Books Posts Trending Profile Settings

Select a Genre...

Genre	Book Title	Author
Adventure	Dracula	Bram Stoker
Children	The Exorcist	William Peter Blatty
Classics	A Brief History of Time	Stephen Hawking
Fantasy	Life of Pi	Yann Martel
Fiction	The Mysterious Island	Jules Verne
Horror	The Adventures of Tom Sawyer	Mark Twain
Mystery	Little Women	Louisa May Alcott
	To Kill a Mockingbird	Harper Lee
	The Rumi Collection	Rumi
	The Poetry of Robert Frost	Robert Frost
	The Notebook	Nancy Pearl
	The Proposal	Stanley Elkin
	Gulliver's Travels	Jonathan Swift
	The Haunting of Hill House	Henry James
	The Shining	Stephen King
	IT	Stephen King
	The Diary of a Young Girl	Anne Frank
	Around the World in 80 Days	Jules Verne
	Jungle Book	Rudyard Kipling
	The Tale of Despereaux	Kate DiCamillo
	A Tale of Two Cities	Charles Dickens
	Oliver Twist	Charles Dickens



The screenshot shows a user interface for a book search application. At the top, there is a navigation bar with tabs: Home, Books, Posts, and Trending. On the right side of the bar are Profile and Settings buttons. The main content area has a teal background. It displays the following information for the book "Little Women":

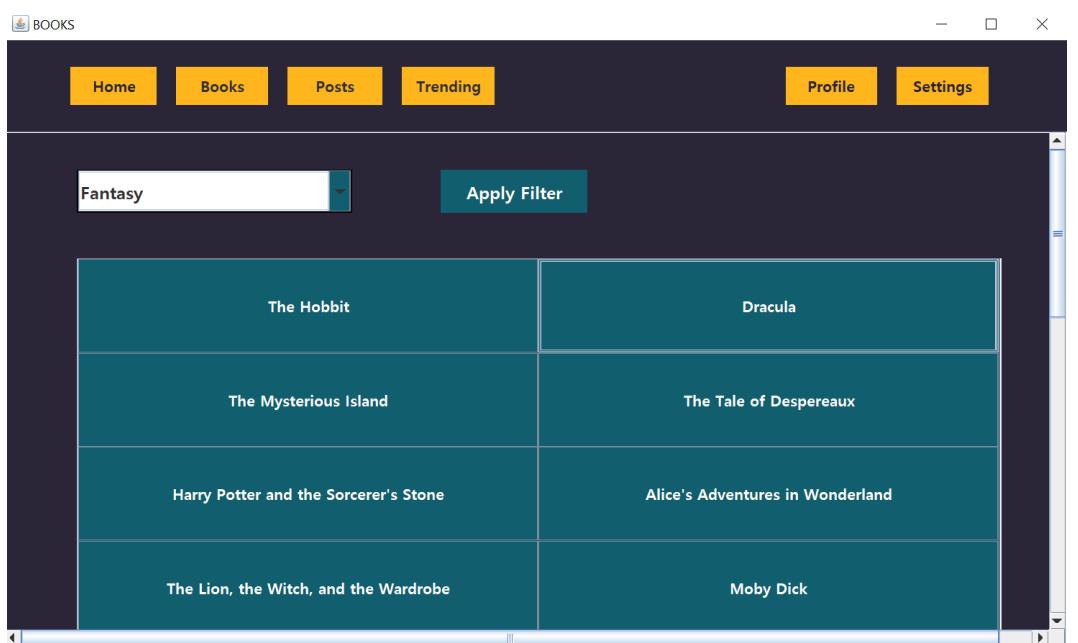
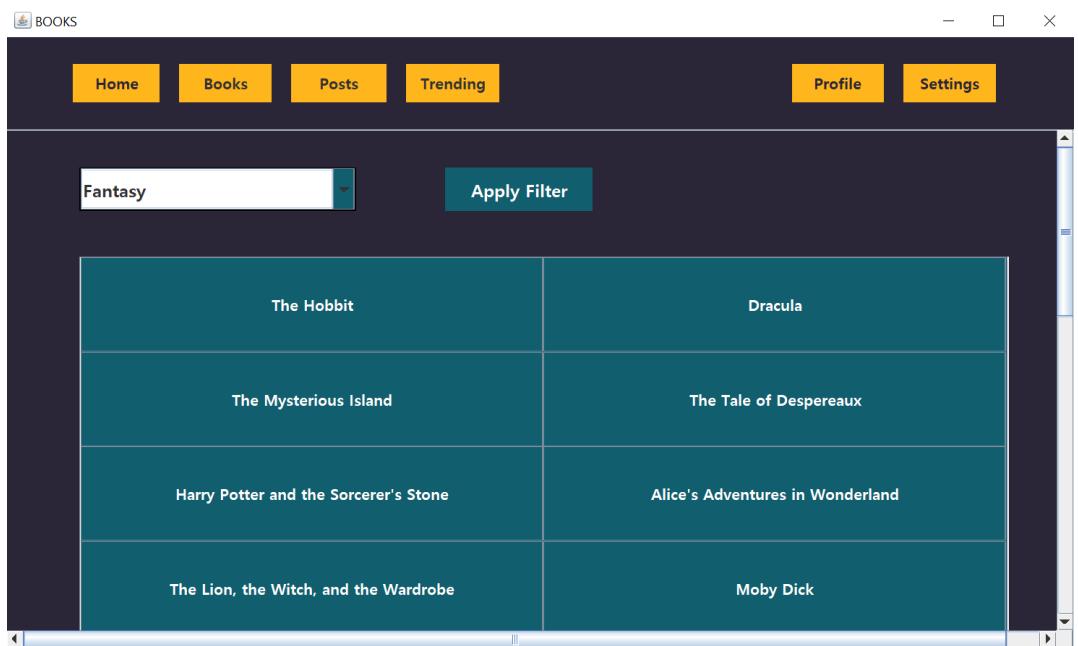
- Book Name: Little Women
- Author Name: Louisa May Alcott
- Genre: Classics Romance
- Publisher: Robert Brothers

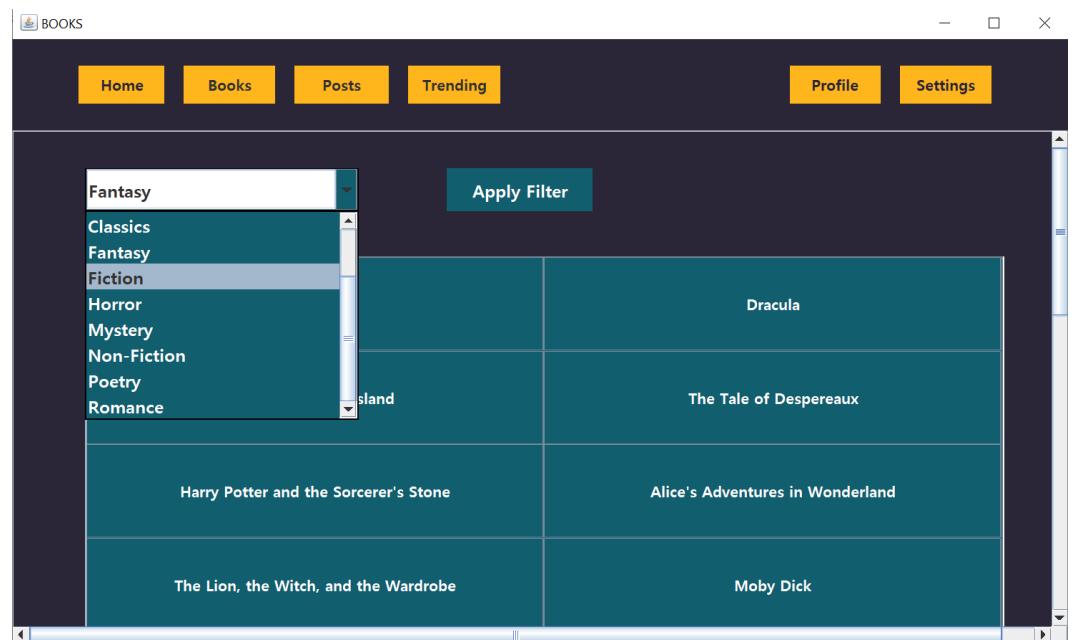
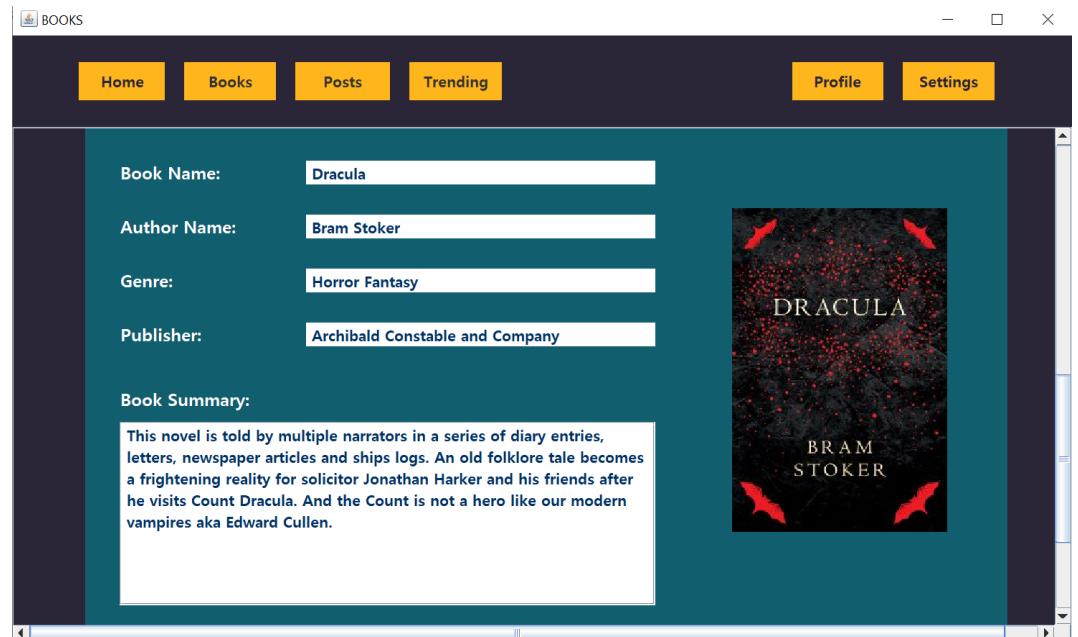
Below this, under Book Summary, is a detailed description of the book:

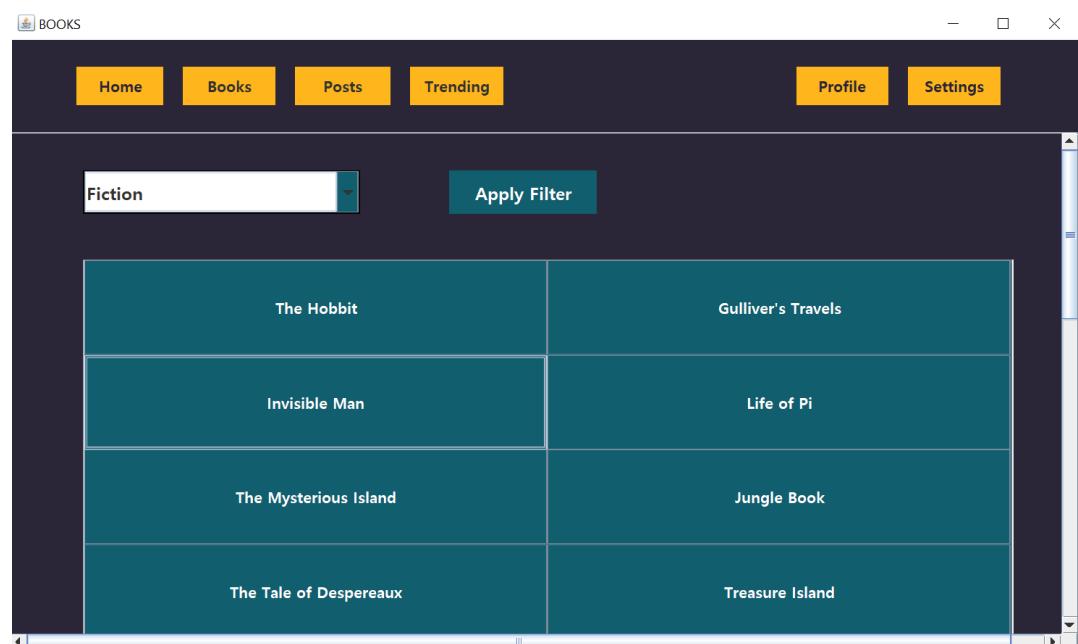
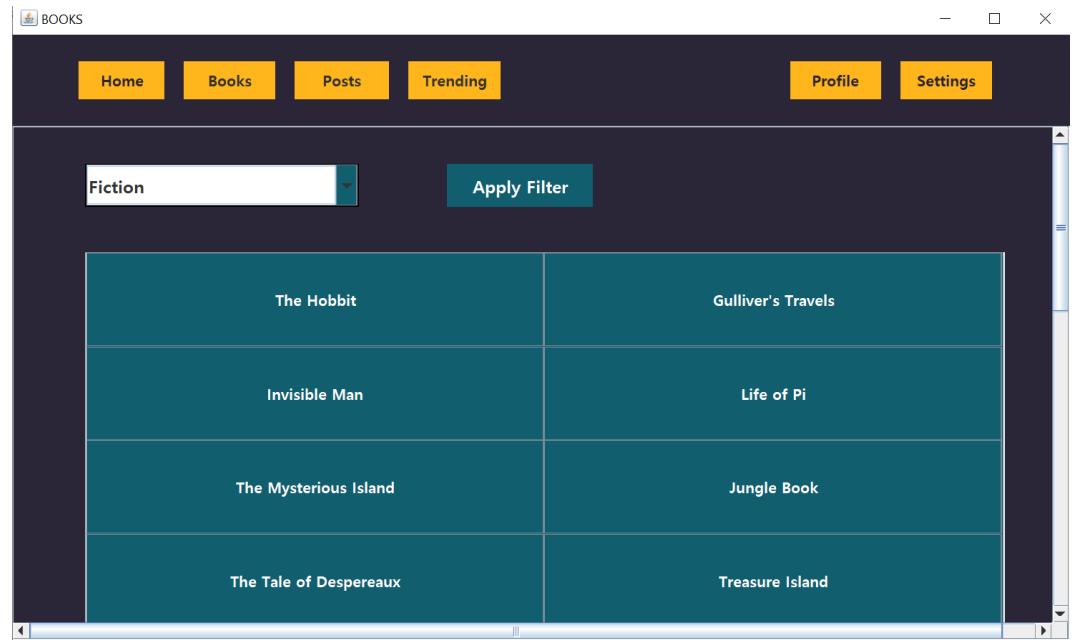
In Little Women, Louisa May Alcott set out to write a book in which girls would see themselves accurately reflected. The March sisters, with their four very different personalities and ambitions, accurately embody both the challenges of growing up and the irreplaceable bond of sisterhood. It is a story of growing up and changing and the world set around a group of young girls. This book is as timeless as it is beautiful.

To the right of the summary is the cover art for "Little Women" by Louisa May Alcott. The cover features a painting of the March sisters: Meg, Jo, Beth, and Amy, sitting together in a room. The title "Little Women" is written in large, serif capital letters at the bottom, with "Louisa May" and "ALCOTT" above it. The artist's name "Amelia Farnham" is visible at the bottom left of the painting.

Genre	Book Title	Author
Adventure	The Rumi Collection	Rumi
Children	The Poetry of Robert Frost	Robert Frost
Classics	The Notebook	Jodi Picoult
Fantasy	The Proposal	Wendelin Van Draanen
Fiction	Gulliver's Travels	Jonathan Swift
Horror	The Haunting of Hill House	Henry James
Mystery	The Shining	Stephen King
	IT	Stephen King
	The Diary of a Young Girl	Anne Frank
	Around the World in 80 Days	Jules Verne
	Jungle Book	Rudyard Kipling
	The Tale of Despereaux	Kate DiCamillo
	A Tale of Two Cities	Charles Dickens
	Oliver Twist	Charles Dickens





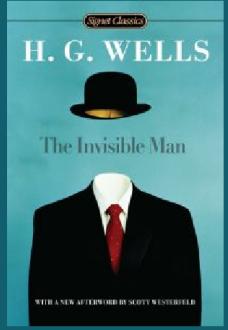


BOOKS

Home Books Posts Trending Profile Settings

Book Name: Invisible Man
Author Name: H.G. Wells
Genre: Mystery Horror Fiction
Publisher: C. Arthur Pearson

Book Summary:
Published in 1897, this story concerns the life and death of a scientist named Griffin who has gone mad. Having learned how to make himself invisible, Griffin begins to use his invisibility for nefarious purposes, including murder.

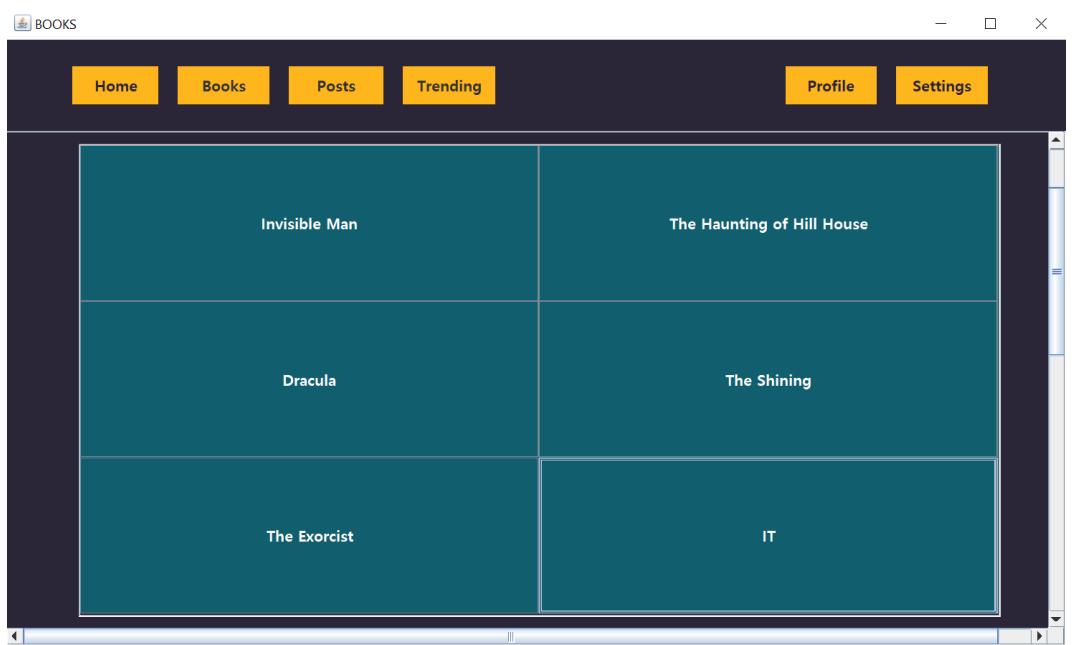
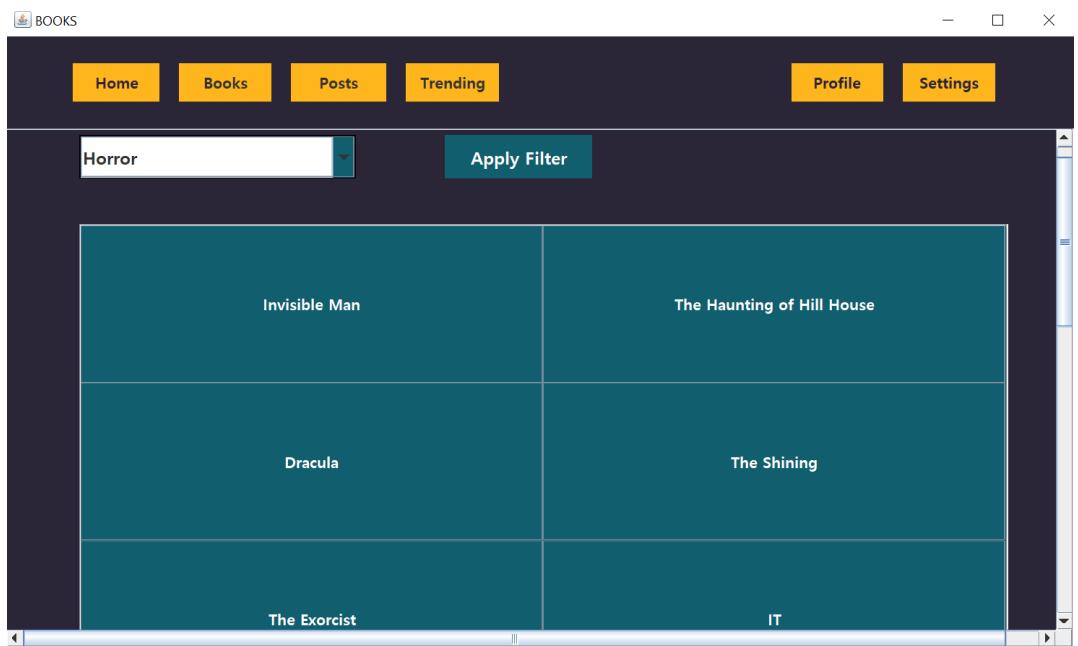


BOOKS

Home Books Posts Trending Profile Settings

Select a Genre... **Apply Filter**

Book Title	Author
The Rumi Collection	
The Poetry of Robert Frost	
The Notebook	
The Proposal	
Gulliver's Travels	
The Haunting of Hill House	
The Shining	
IT	
The Diary of a Young Girl	
Around the World in 80 Days	
Jungle Book	
The Tale of Despereaux	
A Tale of Two Cities	
Oliver Twist	



BOOKS

Home Books Posts Trending Profile Settings

Book Name: IT

Author Name: Stephen King

Genre: Horror

Publisher: Viking

Book Summary:

The story follows the experiences of seven children as they are terrorized by an evil entity that exploits the fears of its victims to disguise itself while hunting its prey. "It" primarily appears in the form of Pennywise the Dancing Clown to attract its preferred prey of young children.

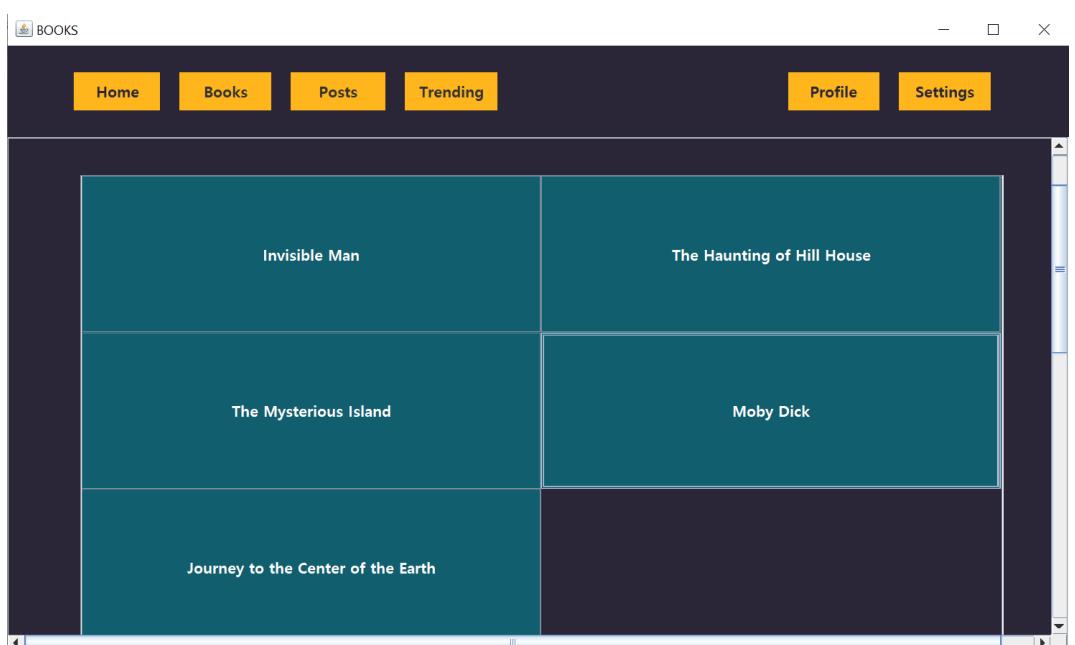
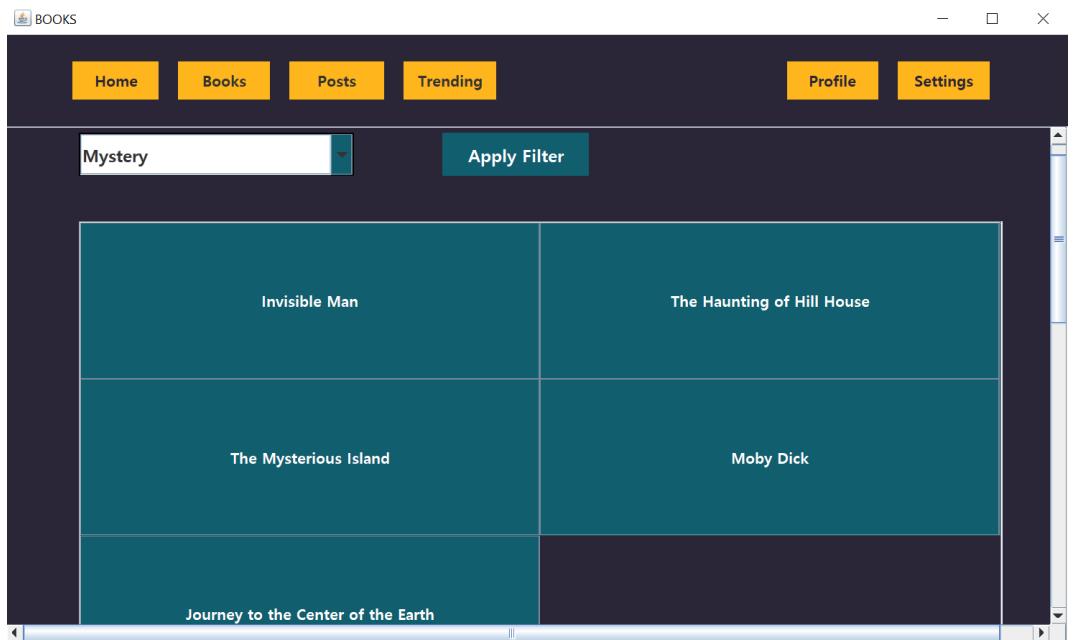


BOOKS

Home Books Posts Trending Profile Settings

Select a Genre... | Apply Filter

Genre	Book Title	Author
Classics	The Rumi Collection	
Fantasy	The Poetry of Robert Frost	
Fiction	The Notebook	
Horror	The Proposal	
Mystery	Gulliver's Travels	
Non-Fiction	The Haunting of Hill House	
Poetry	The Shining	
Romance	IT	
	The Diary of a Young Girl	
	Around the World in 80 Days	
	Jungle Book	
	The Tale of Despereaux	
	A Tale of Two Cities	
	Oliver Twist	



BOOKS

Home Books Posts Trending Profile Settings

Book Name: Moby Dick
Author Name: Herman Melville
Genre: Adventure Fantasy Mystery
Publisher: Richard Bentley, Harper and Brothers

Book Summary:
Call me Ishmael, begins this epic story. Acclaimed as one of the greatest books of the sea that's ever been written, Moby-Dick relates the timeless story of a voyage to hunt and kill the great white whale that rules the ocean and haunts cruel captain Ahab's mind.

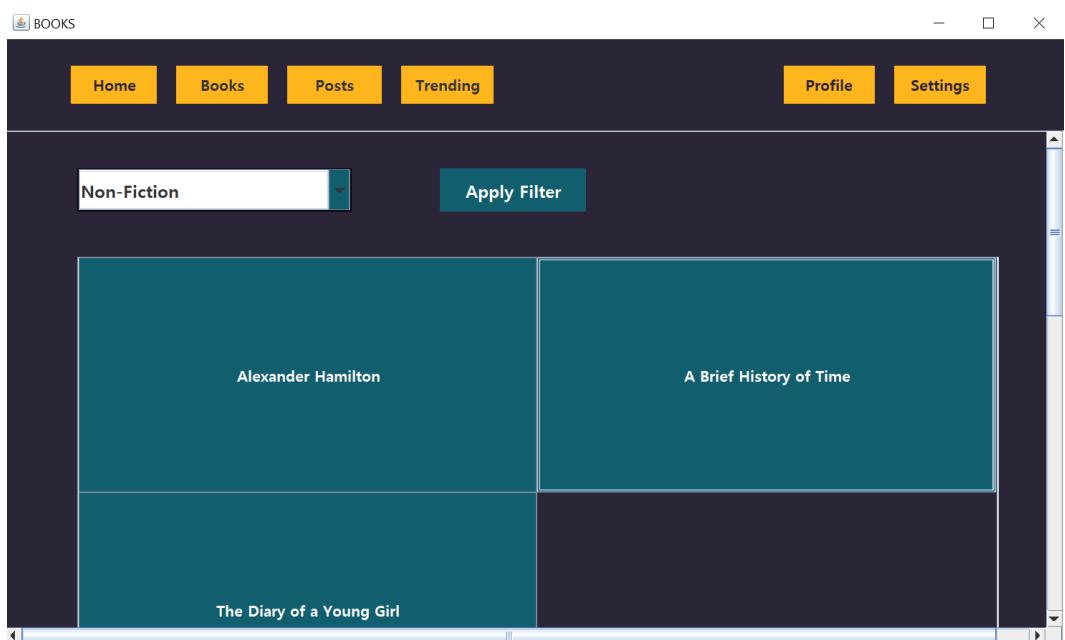
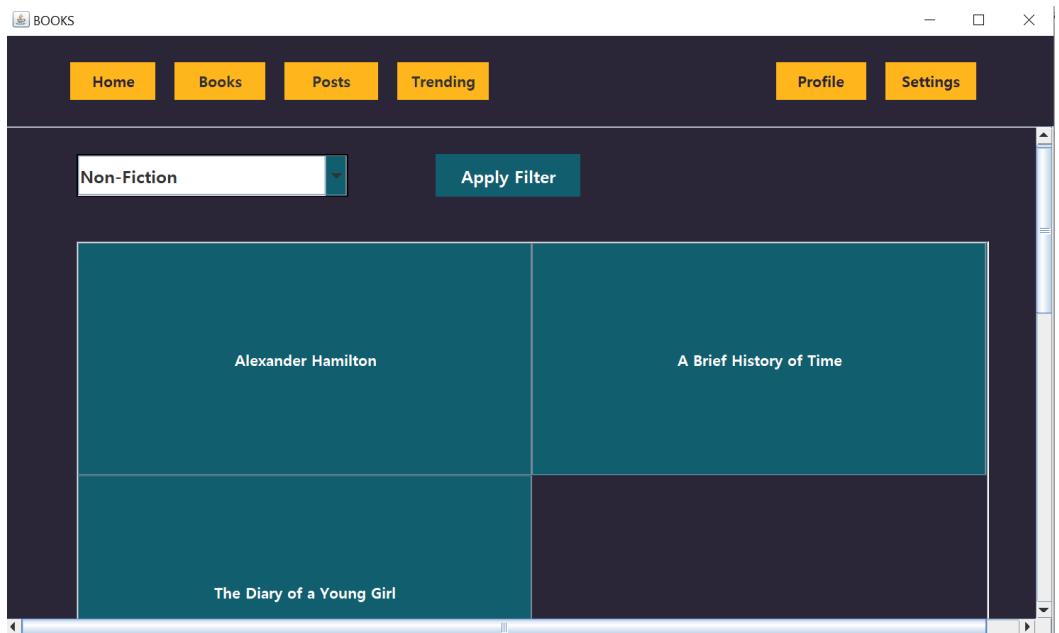


BOOKS

Home Books Posts Trending Profile Settings

Select a Genre...

Classics	1	The Rumi Collection
Fantasy	2	The Poetry of Robert Frost
Fiction	3	The Notebook
Horror	4	The Proposal
Mystery	5	Gulliver's Travels
Non-Fiction	6	The Haunting of Hill House
Poetry	7	The Shining
Romance	8	IT
	9	The Diary of a Young Girl
	10	Around the World in 80 Days
	11	Jungle Book
	12	The Tale of Despereaux
	13	A Tale of Two Cities
	14	Oliver Twist



BOOKS

Home Books Posts Trending Profile Settings

Book Name: A Brief History of Time

Author Name: Stephen Hawking

Genre: Non-Fiction

Publisher: Bantam Dell Publishing Group

Book Summary:

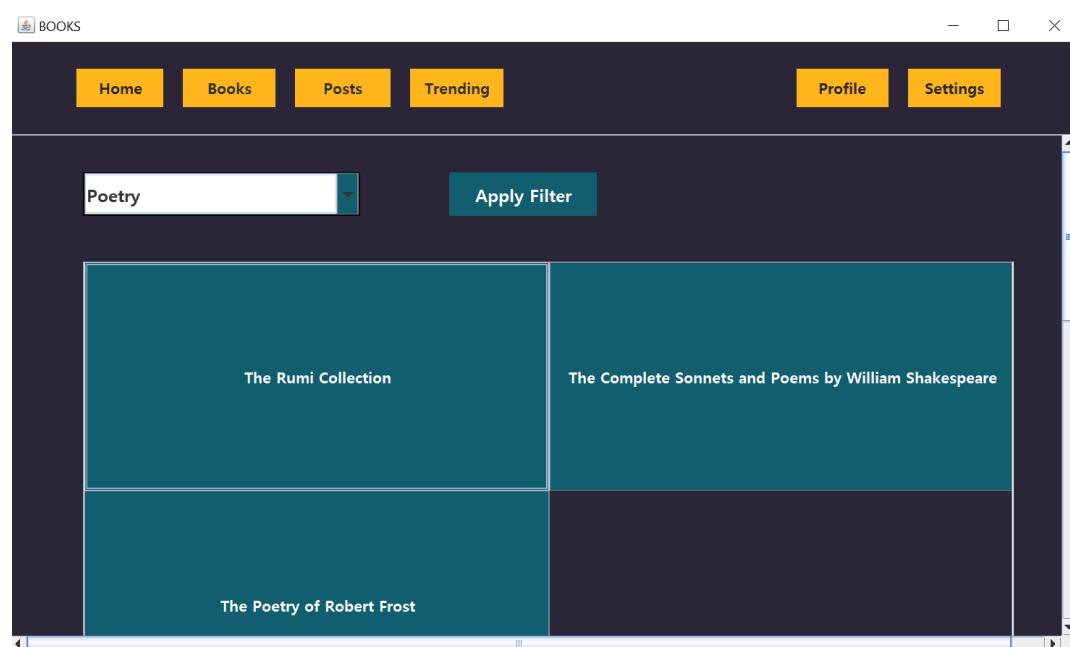
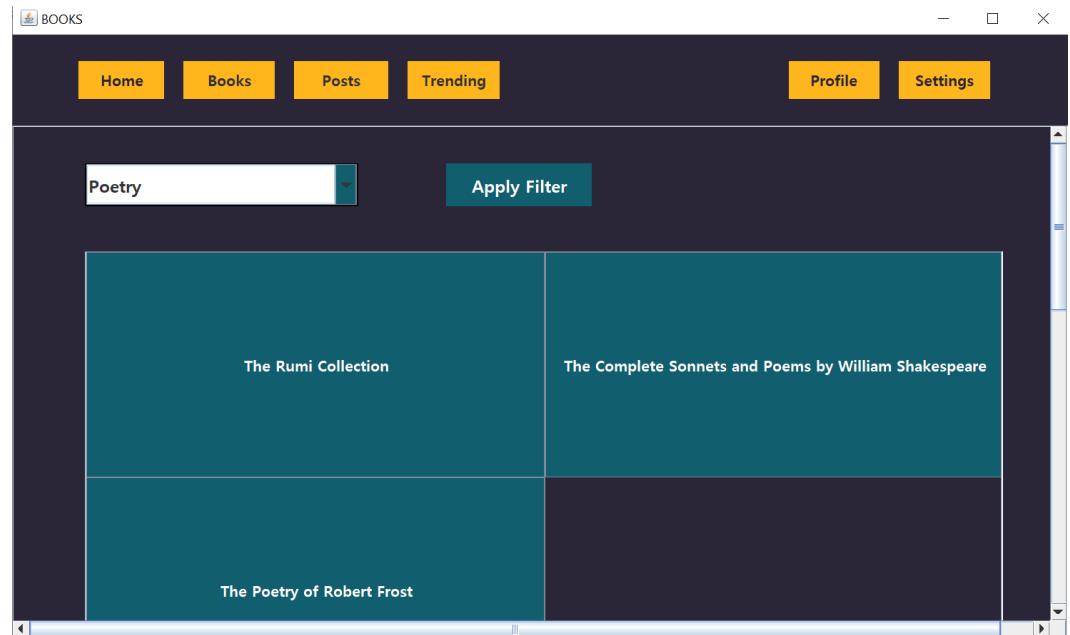
It is a book on theoretical cosmology by English physicist Stephen Hawking. Hawking wrote the book for readers who had no prior knowledge of physics and people who are interested in learning something new about interesting subjects. He writes in non-technical terms about the structure, origin, development and eventual fate of the Universe, which is the object of study of astronomy and modern physics.

BOOKS

Home Books Posts Trending Profile Settings

Select a Genre...

Genre	Book Title	Author
Classics	The Rumi Collection	Rumi
Fantasy	The Poetry of Robert Frost	Robert Frost
Fiction	The Notebook	Jodi Picoult
Horror	The Proposal	Woolf
Mystery	Gulliver's Travels	Jonathan Swift
Non-Fiction	The Haunting of Hill House	Henry James
Poetry	The Shining	Stephen King
Romance	IT	Stephen King
	The Diary of a Young Girl	Anne Frank
	Around the World in 80 Days	Jules Verne
	Jungle Book	Rudyard Kipling
	The Tale of Despereaux	Kate DiCamillo
	A Tale of Two Cities	Charles Dickens
	Oliver Twist	Charles Dickens



BOOKS

Home Books Posts Trending Profile Settings

Book Name: The Rumi Collection

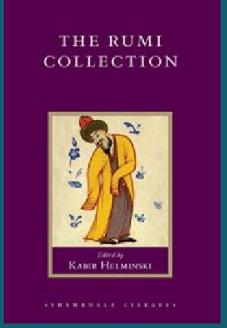
Author Name: Jalal ad-Din Muhammad Rumi

Genre: Poetry

Publisher: Oneworld Publications

Book Summary:

Jalal ad-Din Muhammad Rumi was a 13th-century Persian poet, theologian, scholar, and mystic whose poetry has transcended cultures and language barriers. In The Rumi Collection, several translators join together to offer their keen adaptations to this poet's ecstatic work, under the direction of editor Kabir Helminski. Each of the eighteen chapters are arranged by topic.



BOOKS

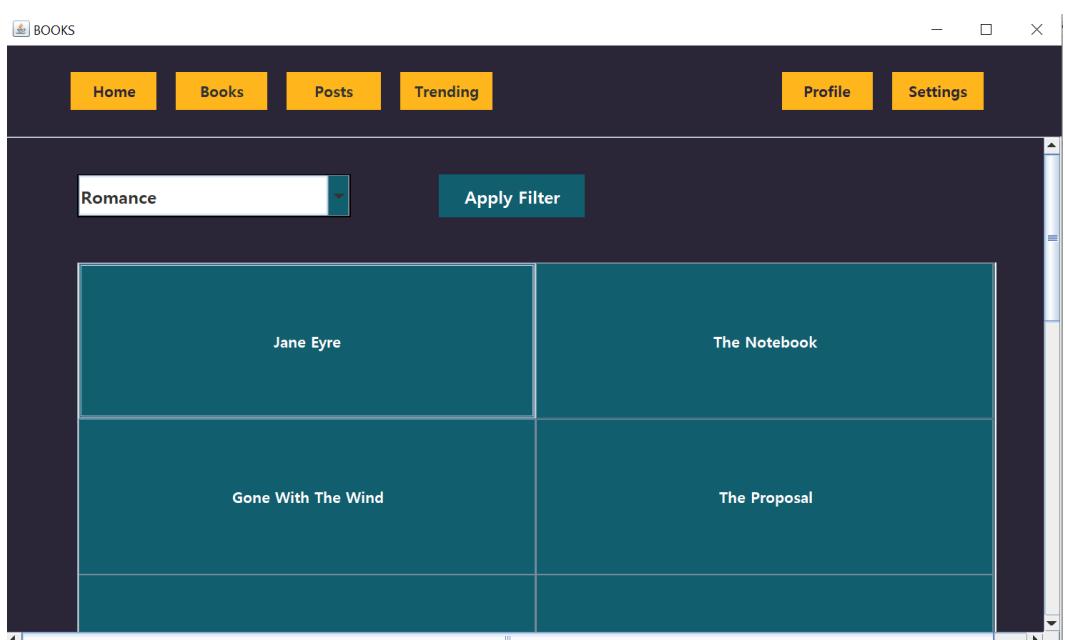
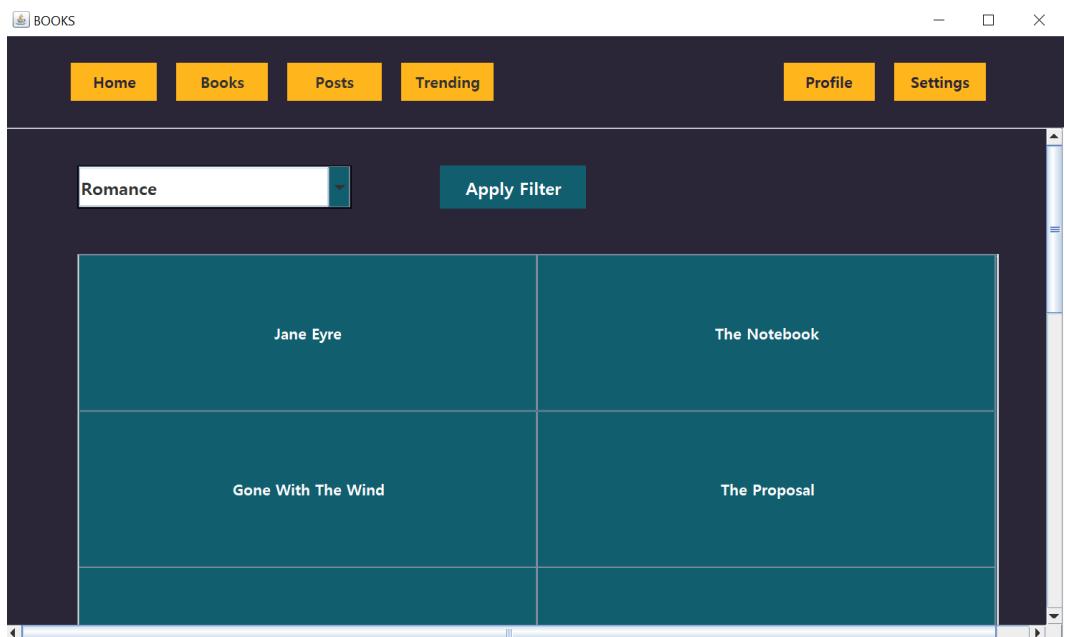
Home Books Posts Trending Profile Settings

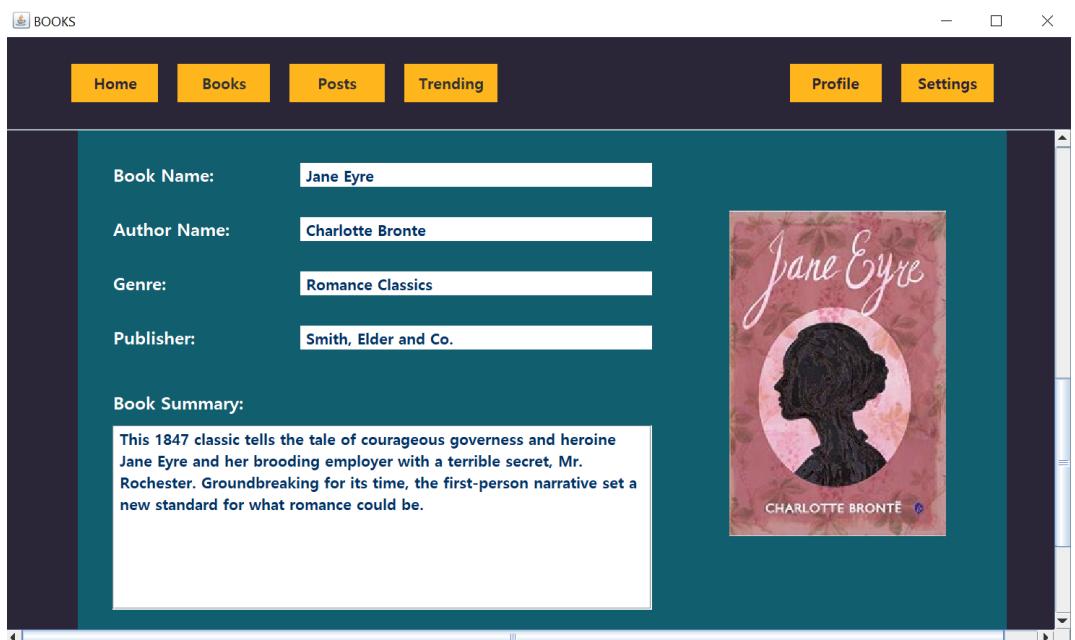
Select a Genre...

Classics
Fantasy
Fiction
Horror
Mystery
Non-Fiction
Poetry
Romance

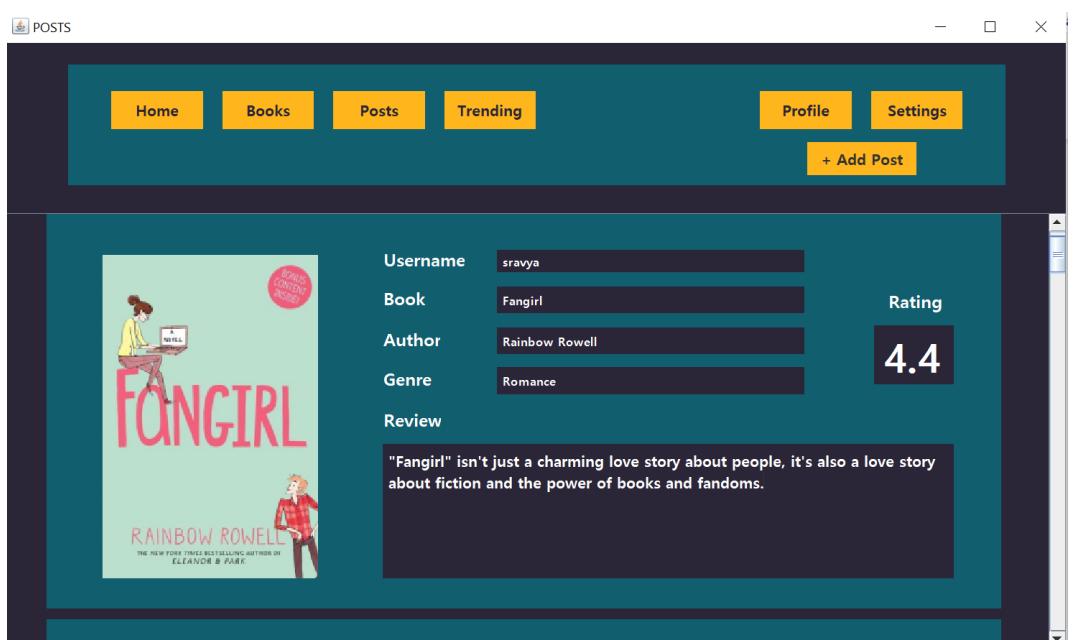
Apply Filter

Hamlet	The Rumi Collection
By William Shakespeare	The Poetry of Robert Frost
Gulliver's Travels	The Notebook
Frankenstein	The Proposal
The Haunting of Hill House	The Shining
Dracula	IT
The Exorcist	The Diary of a Young Girl
A Brief History of Time	Around the World in 80 Days
Life of Pi	Jungle Book
The Mysterious Island	The Tale of Despereaux
The Adventures of Tom Sawyer	A Tale of Two Cities
Little Women	Oliver Twist
To Kill a Mockingbird	





9.2.7. Posts.java



POSTS

Home Books Posts Trending Profile Settings + Add Post



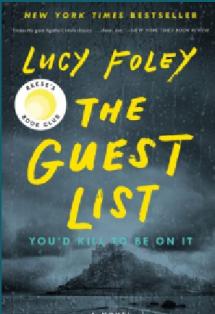
Username: srawya
Book: Alice's adventures in wonderland
Author: Lewis Carroll
Genre: Classics
Rating: 4.3

Review:

The book is brilliant for children, but with enough hilarity and joy for life in it to please adults too. It is a lovely book with which one can take a brief respite from our overly rational and sometimes dreary world.

POSTS

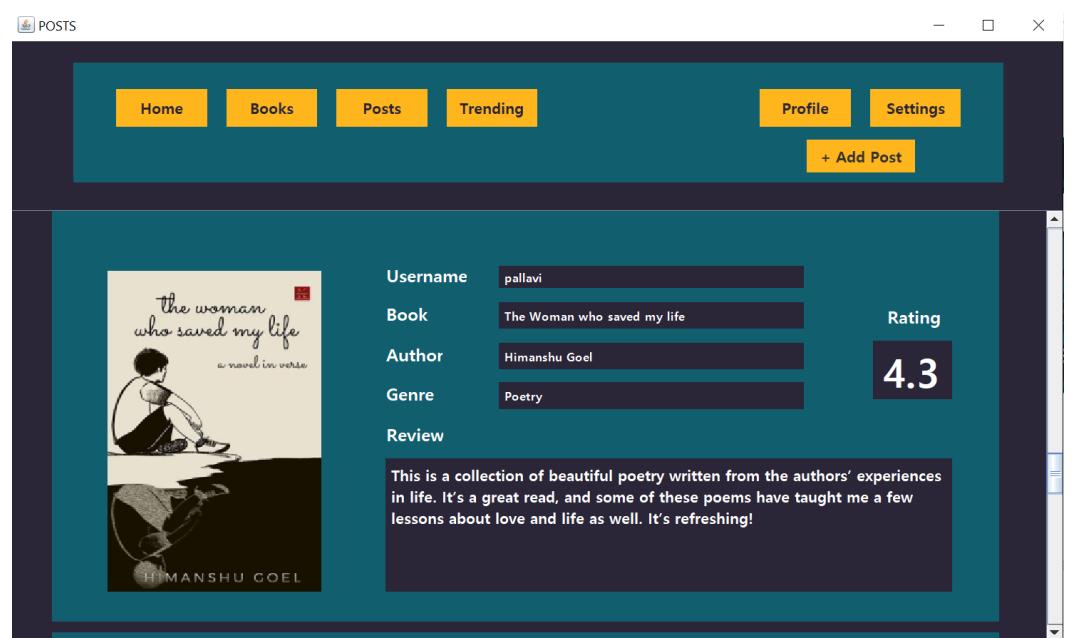
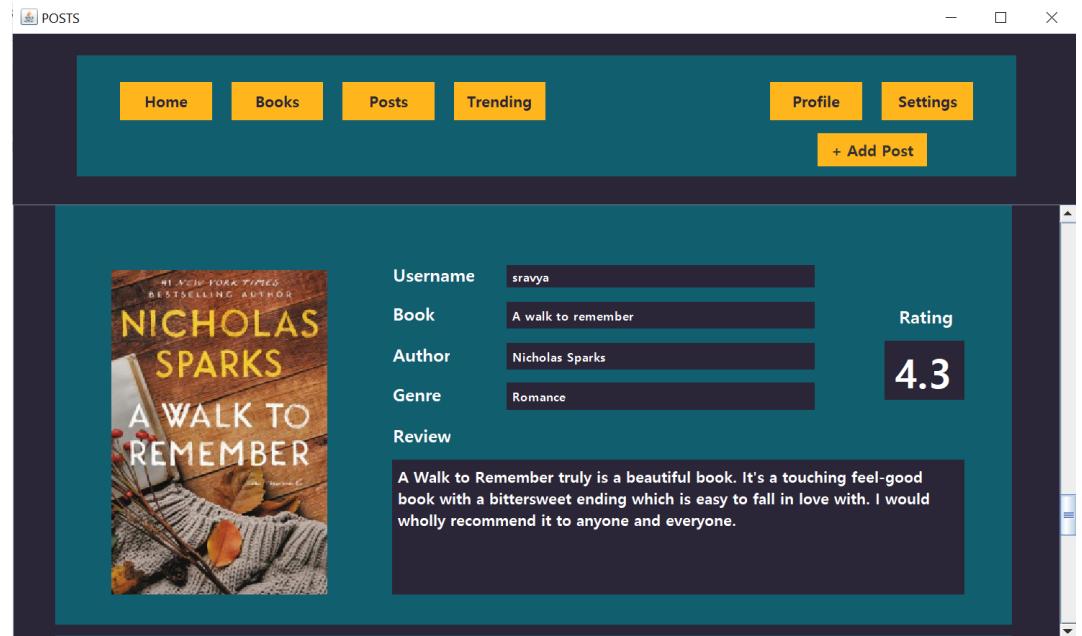
Home Books Posts Trending Profile Settings + Add Post

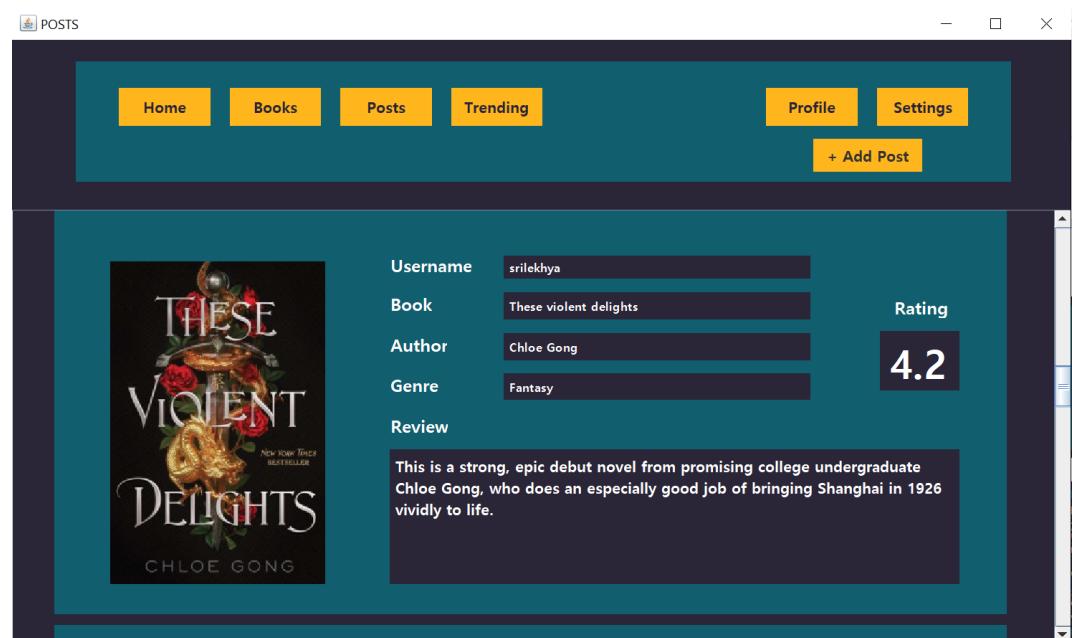
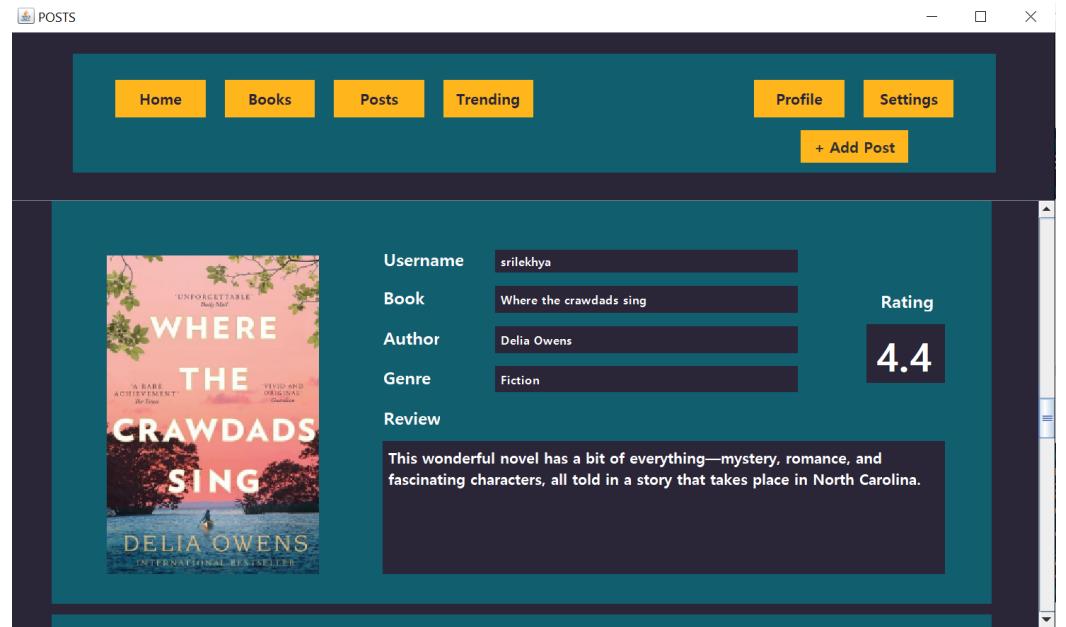


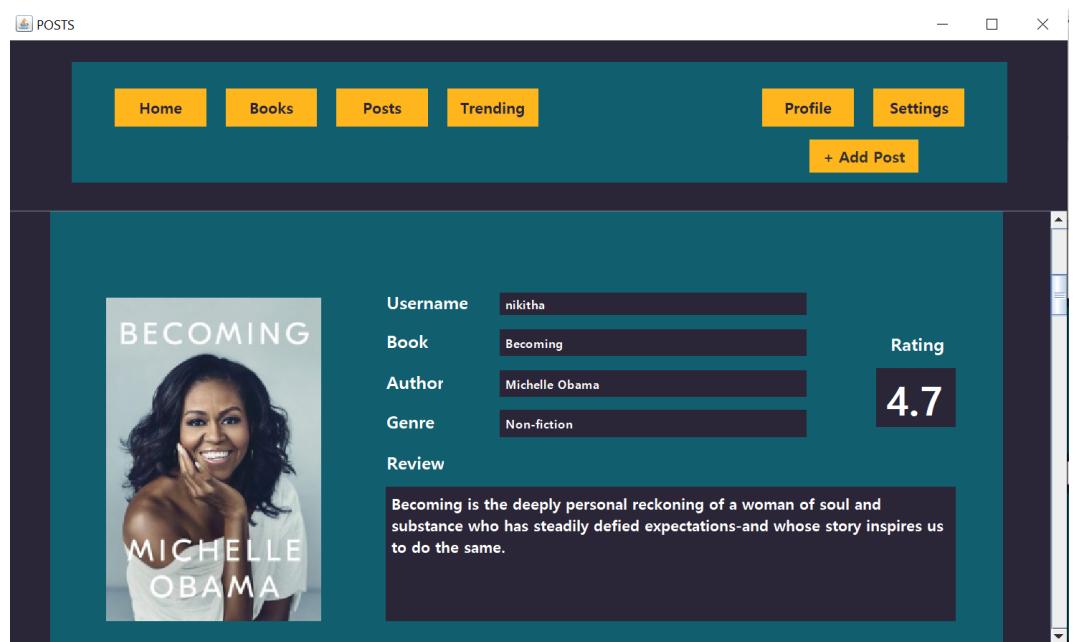
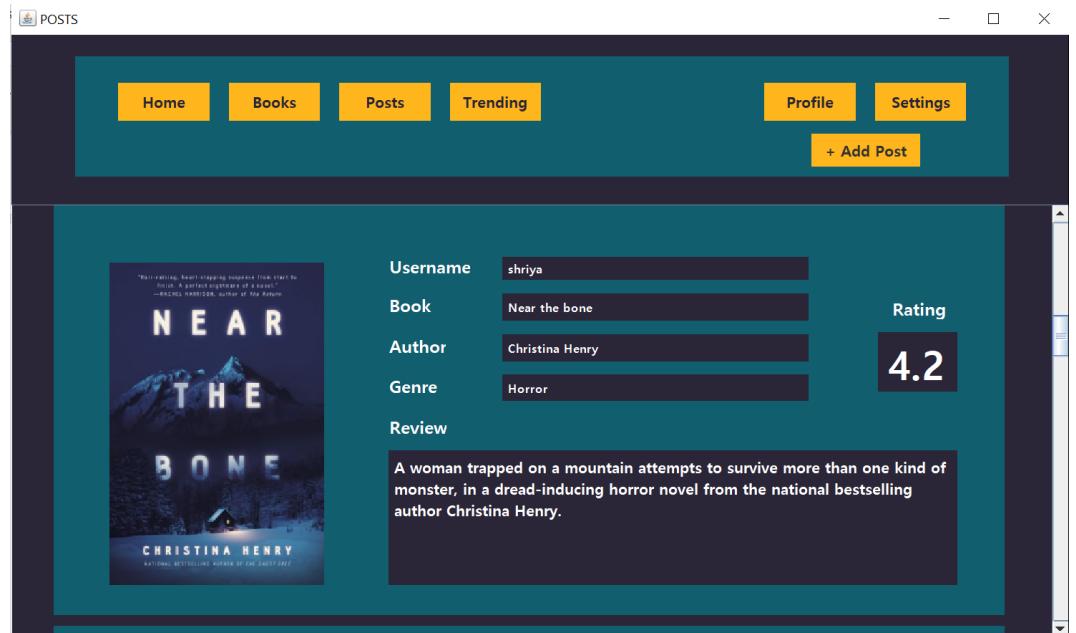
Username: nikitha
Book: The Guest List
Author: Lucy Foley
Genre: Mystery
Rating: 4.3

Review:

Clever!







POSTS

Home Books Posts Trending Profile Settings + Add Post

LIFE OF PI
A NOVEL BY YANN MARTEL
NOW A MAJOR MOTION PICTURE
WINNER OF THE MAN BOOKER PRIZE

Username: sravya
Book: Life of Pi
Author: Yann Martel
Genre: Adventure

Rating: 4.8

Review:
"Life of Pi" is a beautiful, emotionally resonant tale of faith, friendship, and perseverance.

POSTS

Home Books Posts Trending Profile Settings + Add Post

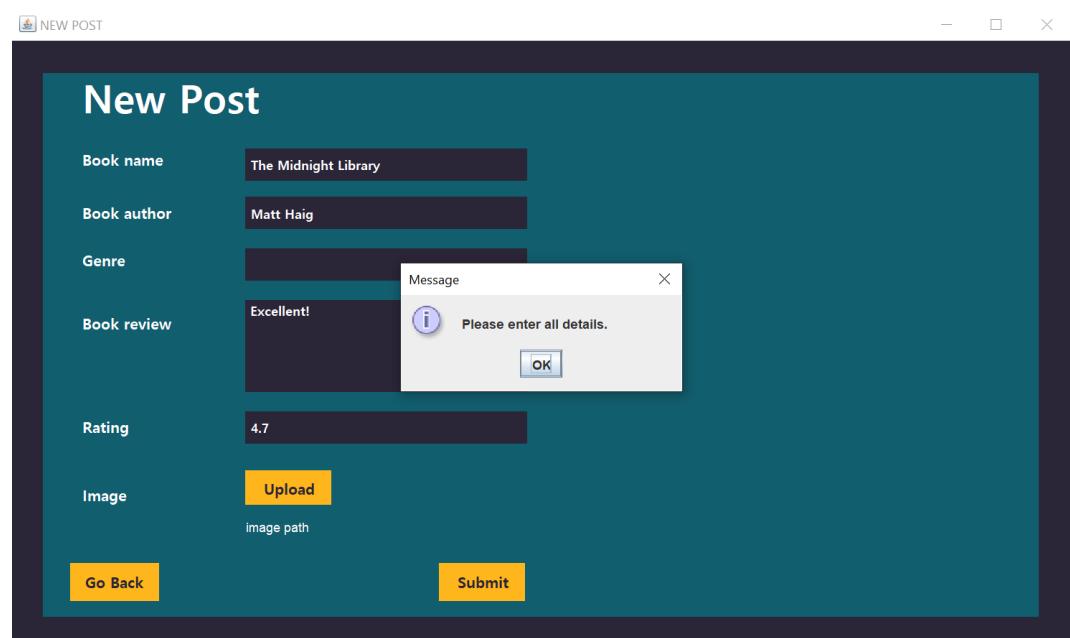
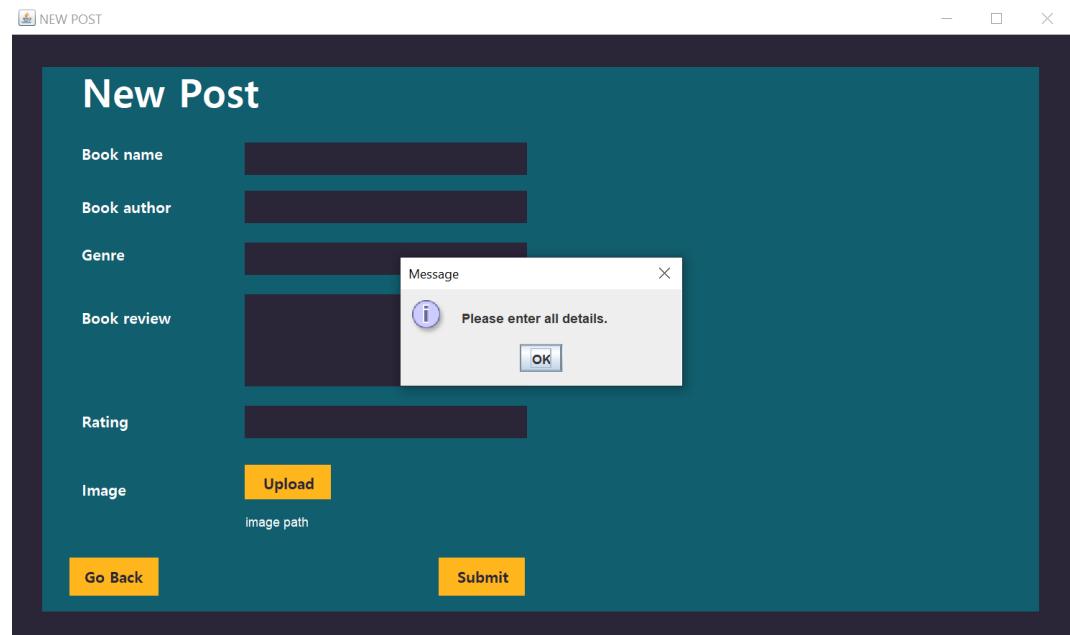
Pride and Prejudice
JANE AUSTEN

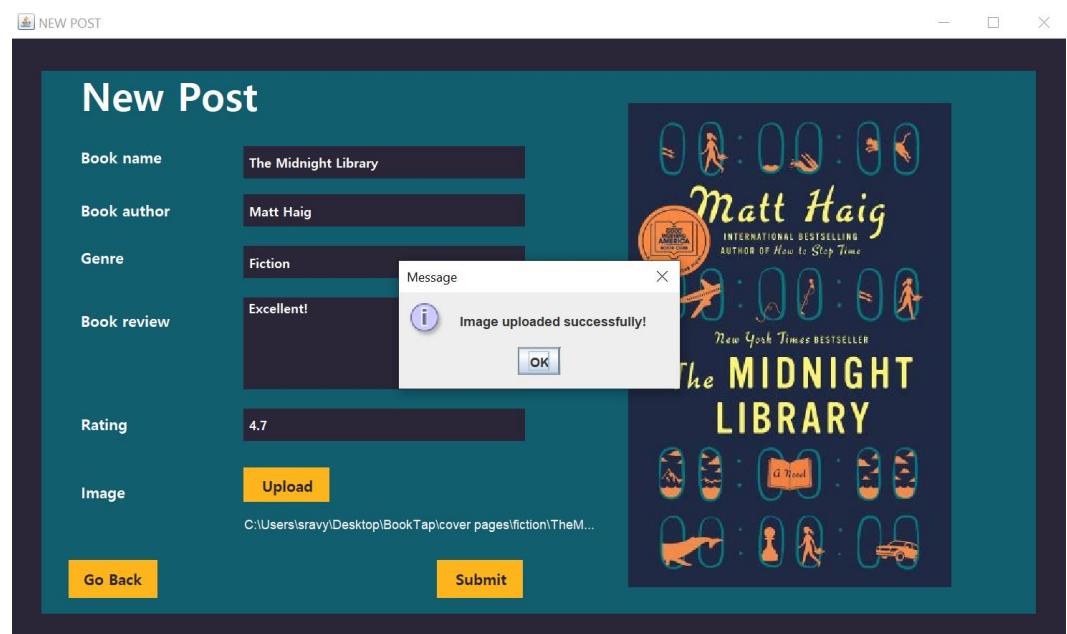
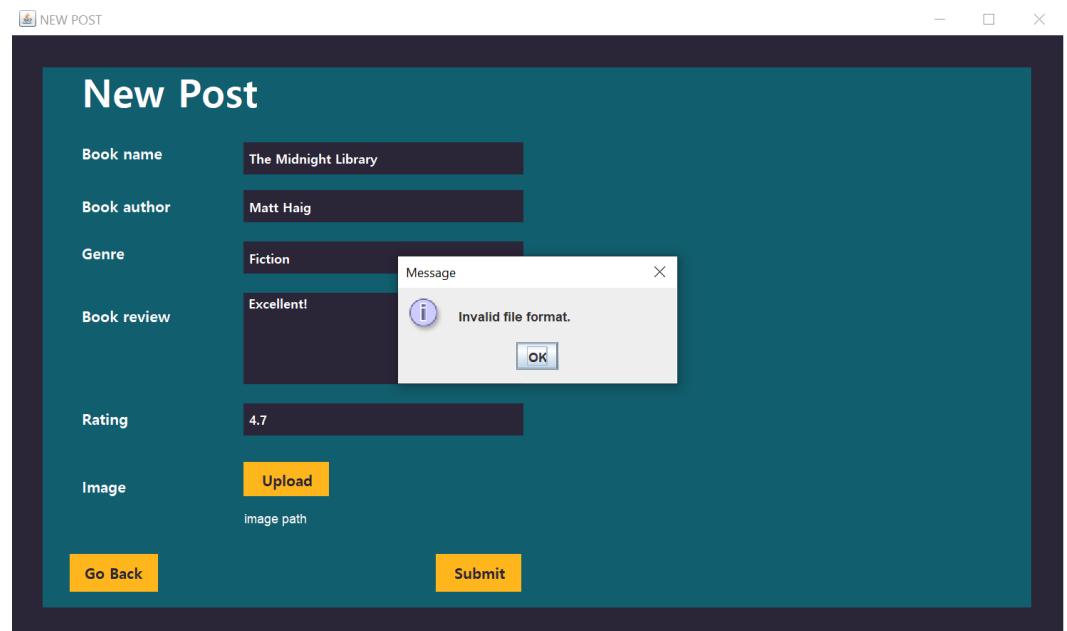
Username: sravya
Book: Pride and prejudice
Author: Jane Austen
Genre: Romance

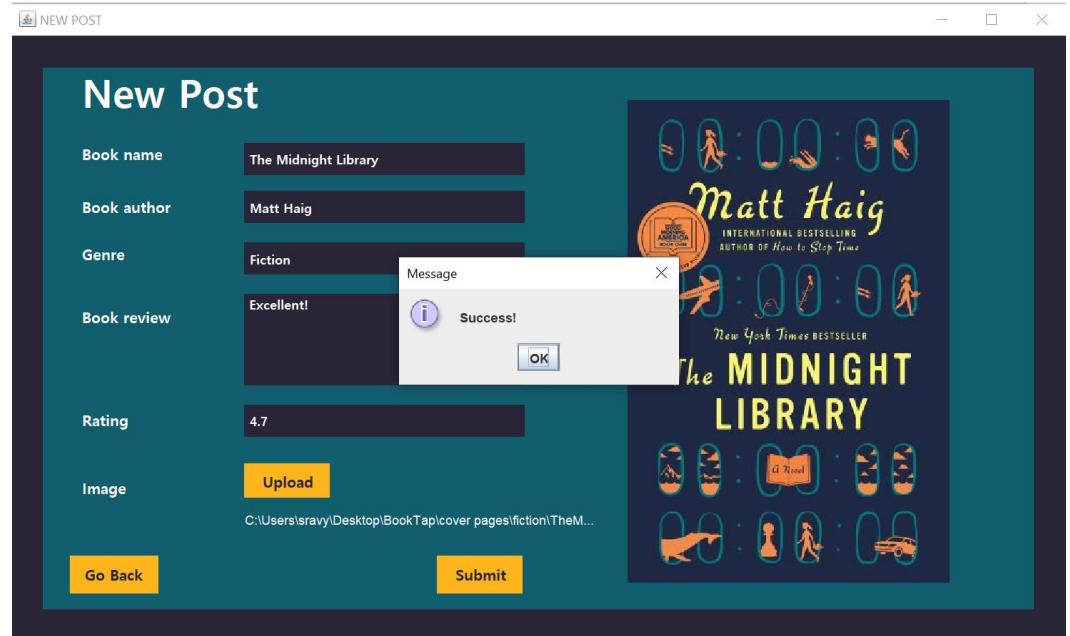
Rating: 4.3

Review:
Austen gives you brave and good heroes and heroines, despicable villains, a decent dose of comic relief, a great and complex plot, and plenty of suspense of the mostly restrained, emotional variety.

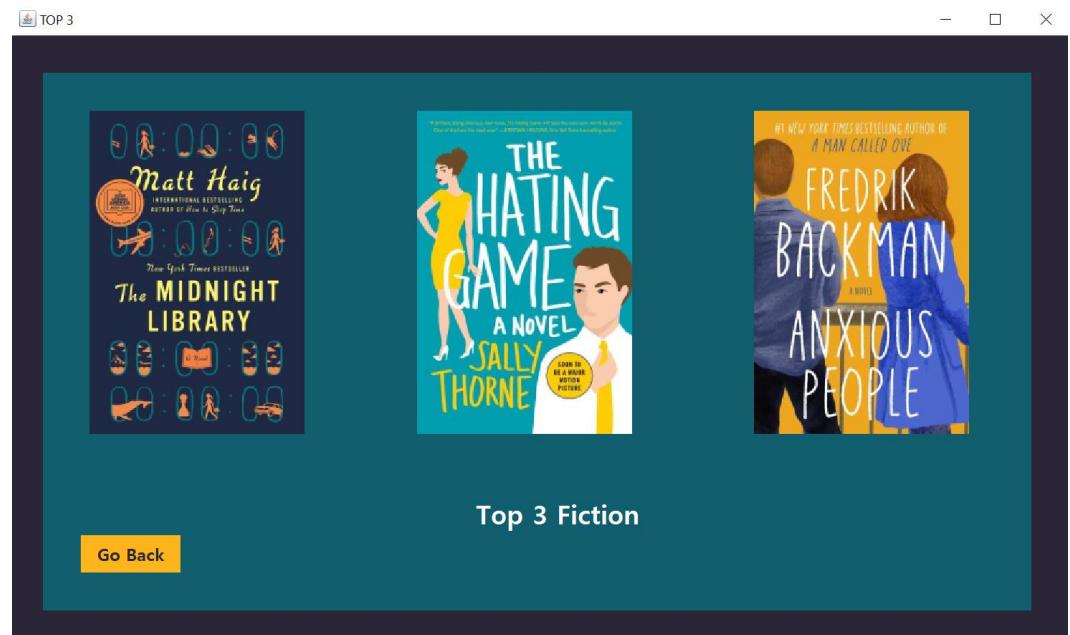
9.2.8. AddPost.java



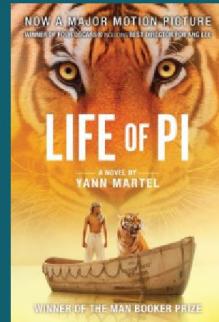
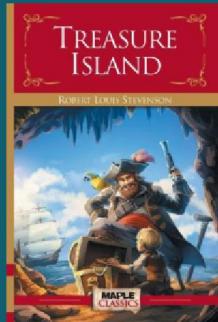
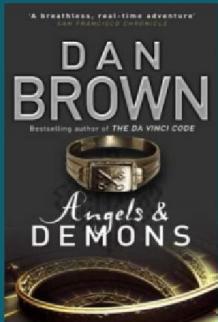




9.2.9. TrendList.java



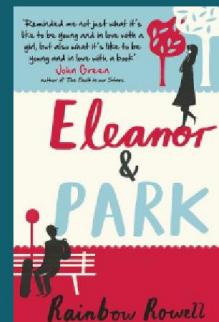
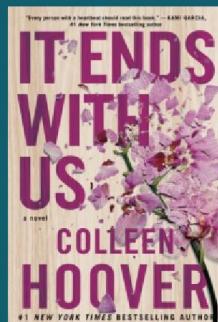
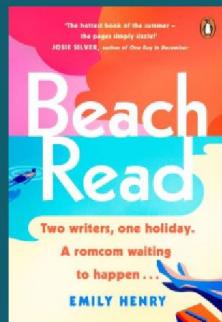
TOP 3



Top 3 Adventure

[Go Back](#)

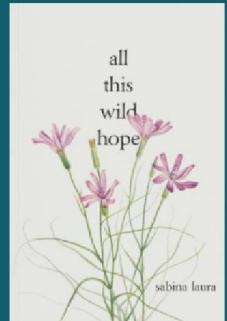
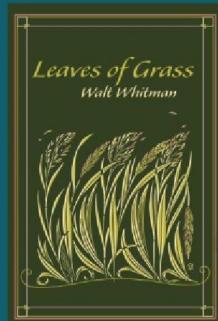
TOP 3



Top 3 Romance

[Go Back](#)

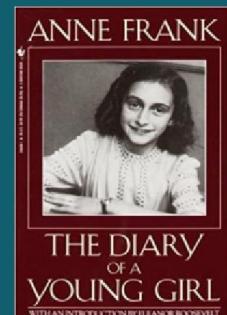
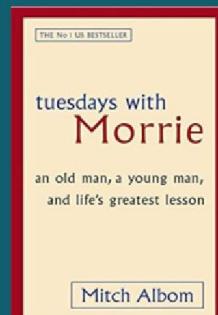
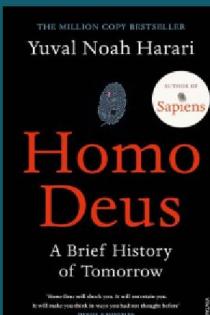
TOP 3



Top 3 Poetry

[Go Back](#)

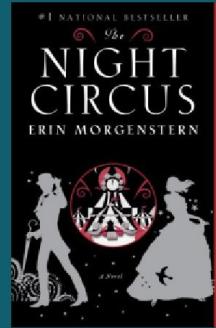
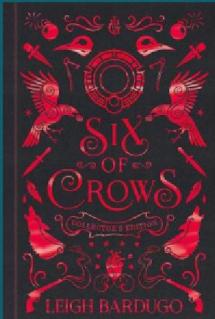
TOP 3



Top 3 Non-fiction

[Go Back](#)

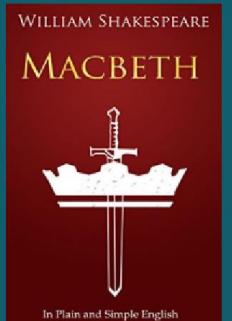
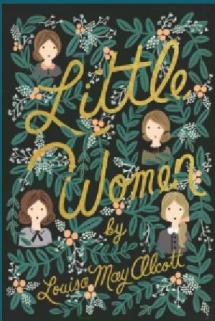
TOP 3



Top 3 Fantasy

[Go Back](#)

TOP 3



Top 3 Classics

[Go Back](#)

TOP 3

The image shows three book covers arranged horizontally on a teal background. On the left is 'Truly, Devious' by Maureen Johnson, featuring a blue cover with white and yellow text. In the center is 'Sharp Objects' by Gillian Flynn, with a dark cover and green text. On the right is 'The Woman in the Window' by A.J. Finn, which has a dark cover with a yellow circular logo in the top right corner.

Top 3 Mystery

Go Back

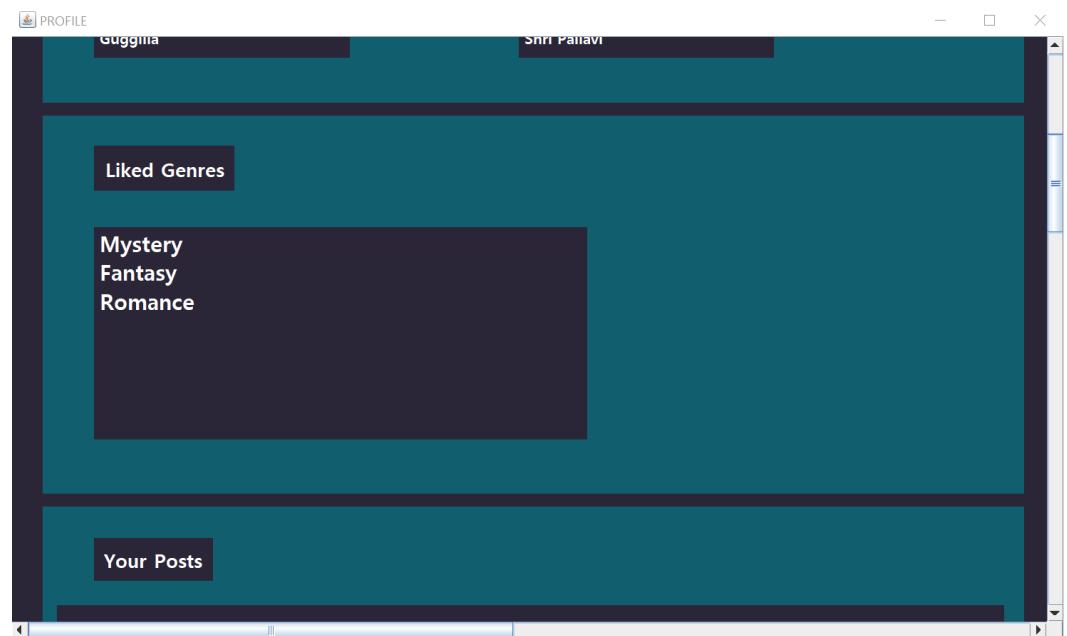
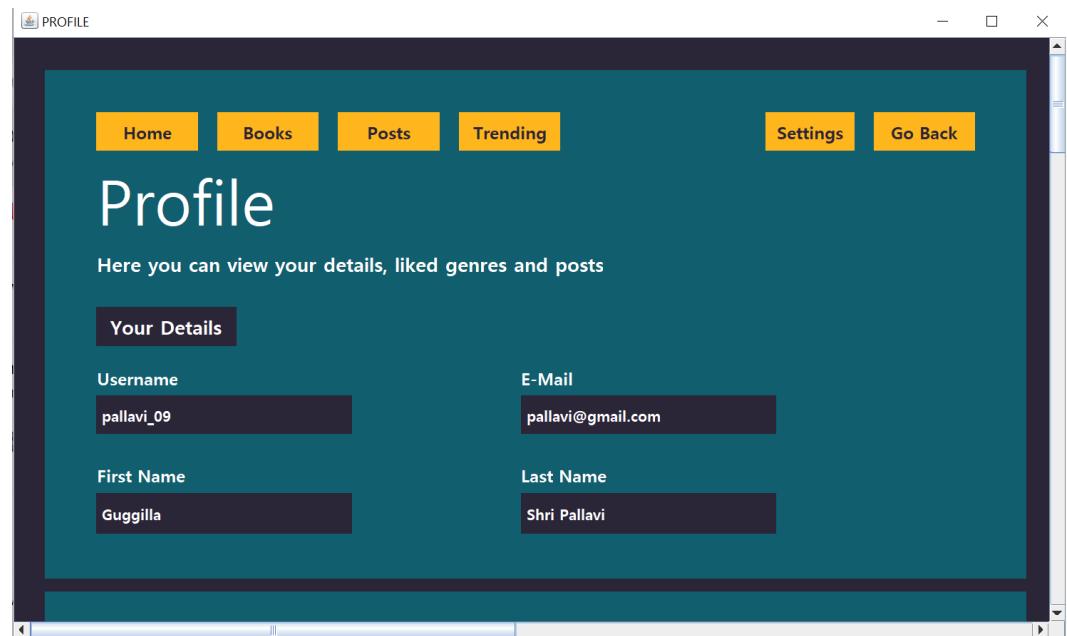
TOP 3

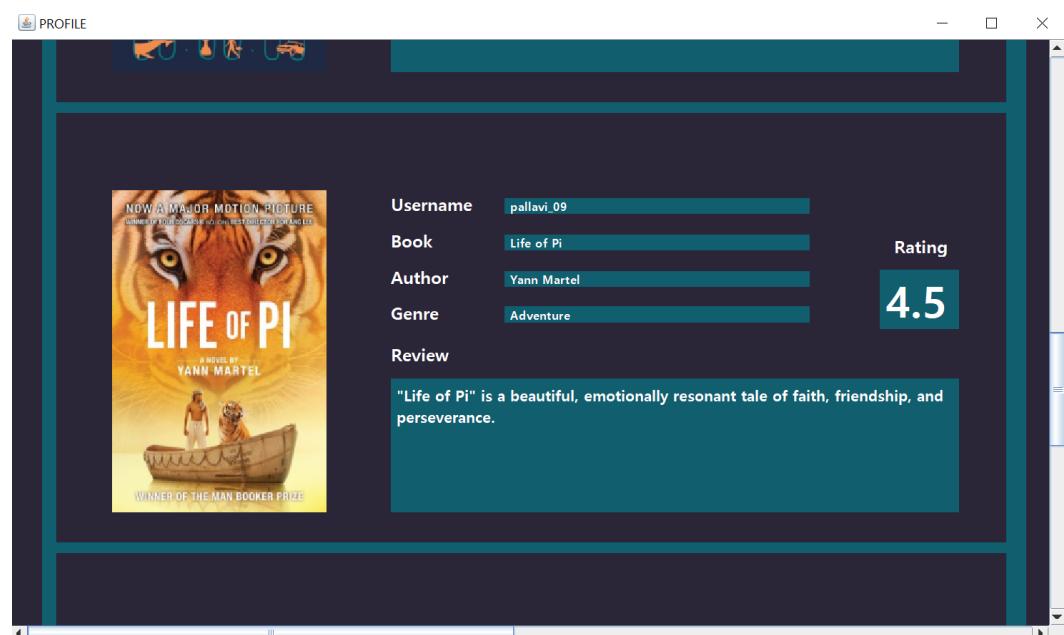
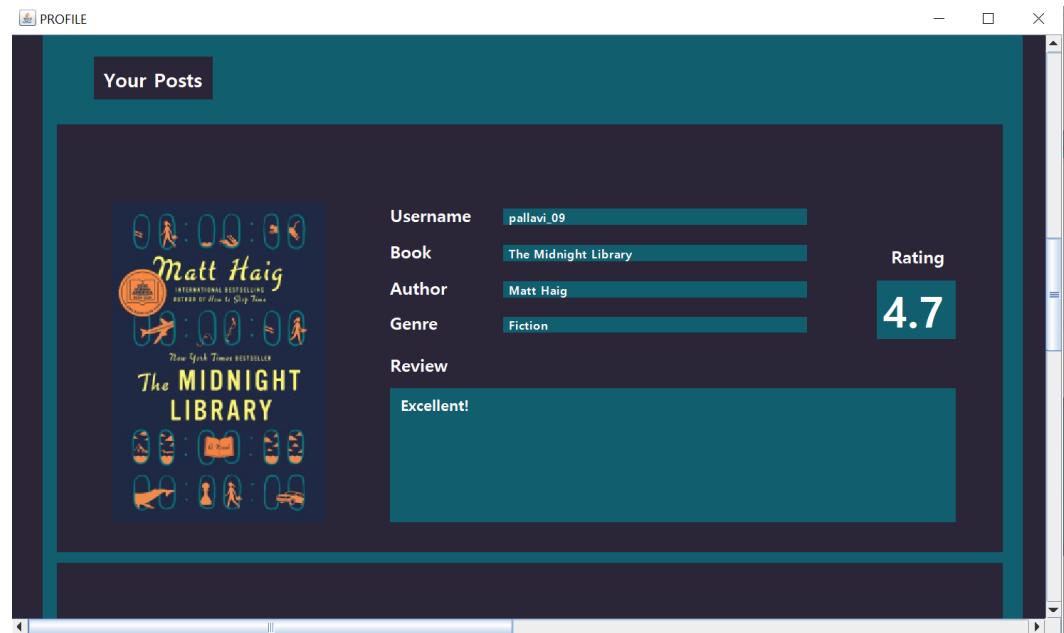
The image shows three book covers arranged horizontally on a teal background. On the left is 'Such Pretty Things' by Lisa Heathfield, featuring a dark cover with three baby dolls and a house illustration. In the center is 'Love the Way You Lie' by Lisa Unger, with a dark cover and white text. On the right is 'Paradox Lake' by Vincent Zandri, which has a dark cover with a forest scene.

Top 3 Horror

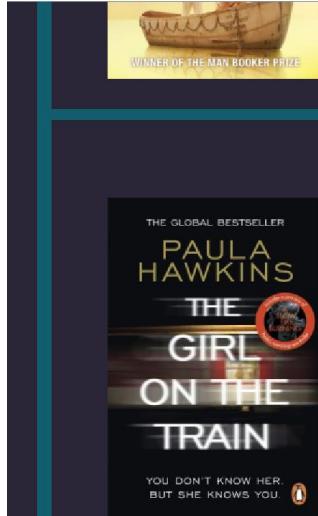
Go Back

9.2.10. Profile.java





PROFILE



THE GLOBAL BESTSELLER
PAULA HAWKINS
THE GIRL ON THE TRAIN
YOU DON'T KNOW HER.
BUT SHE KNOWS YOU.

Username: pallavi_09
Book: The Girl on the Train
Author: Paula Hawkins
Genre: Mystery

Rating: 4.2

Review:

I definitely recommend this book to someone who has never read any crime & mystery novel. The story is interesting and the plot is nice.

PROFILE



JANE AUSTEN
Pride and Prejudice

YOU DON'T KNOW HER.
BUT SHE KNOWS YOU.

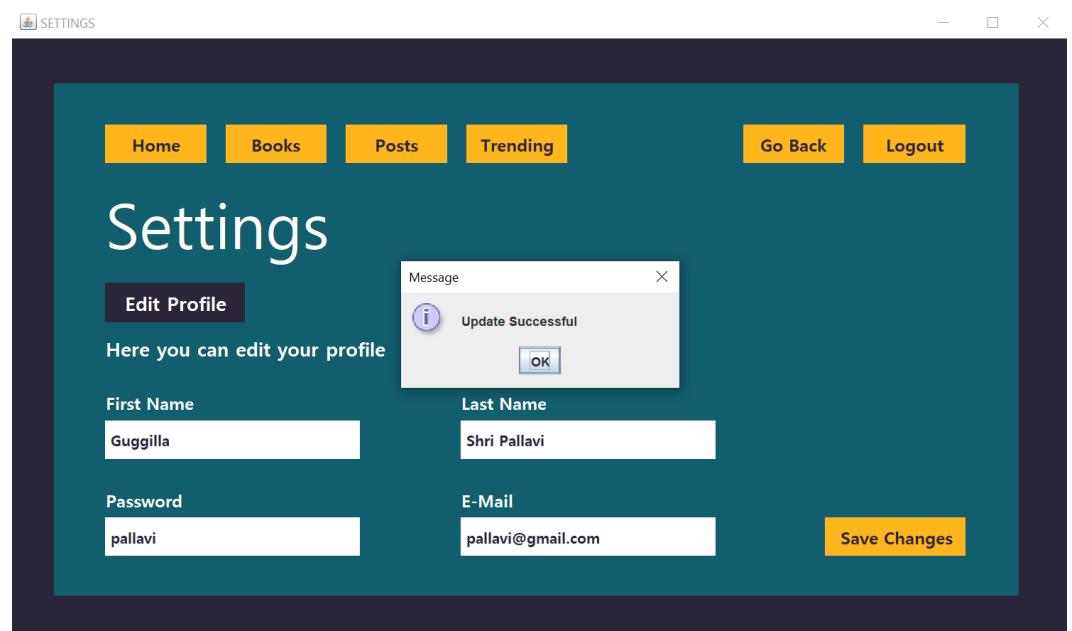
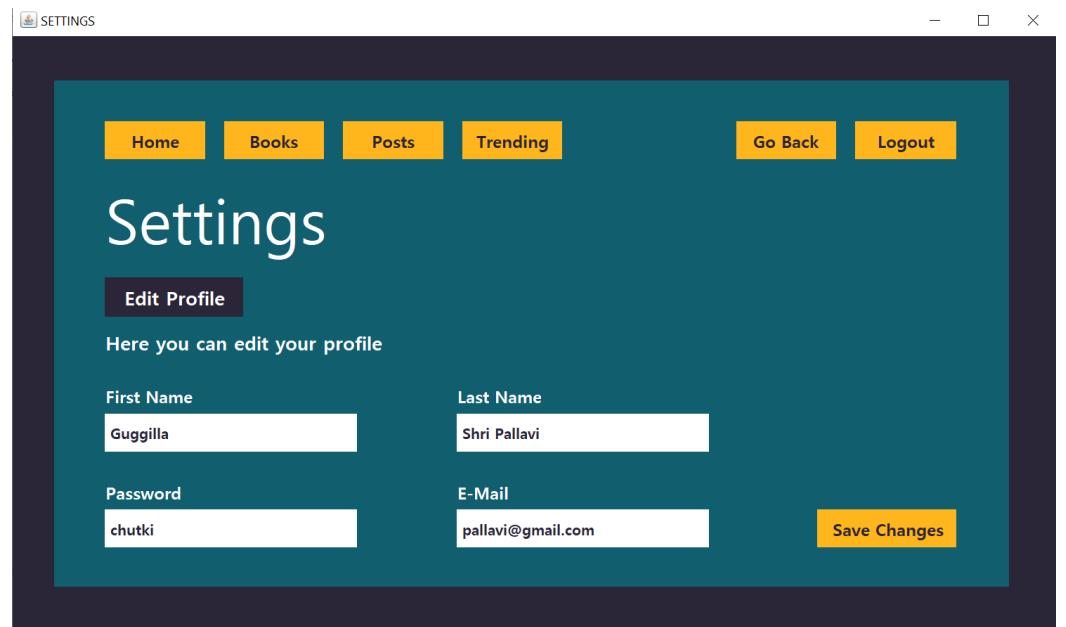
Username: pallavi_09
Book: Pride and Prejudice
Author: Jane Austen
Genre: Romance

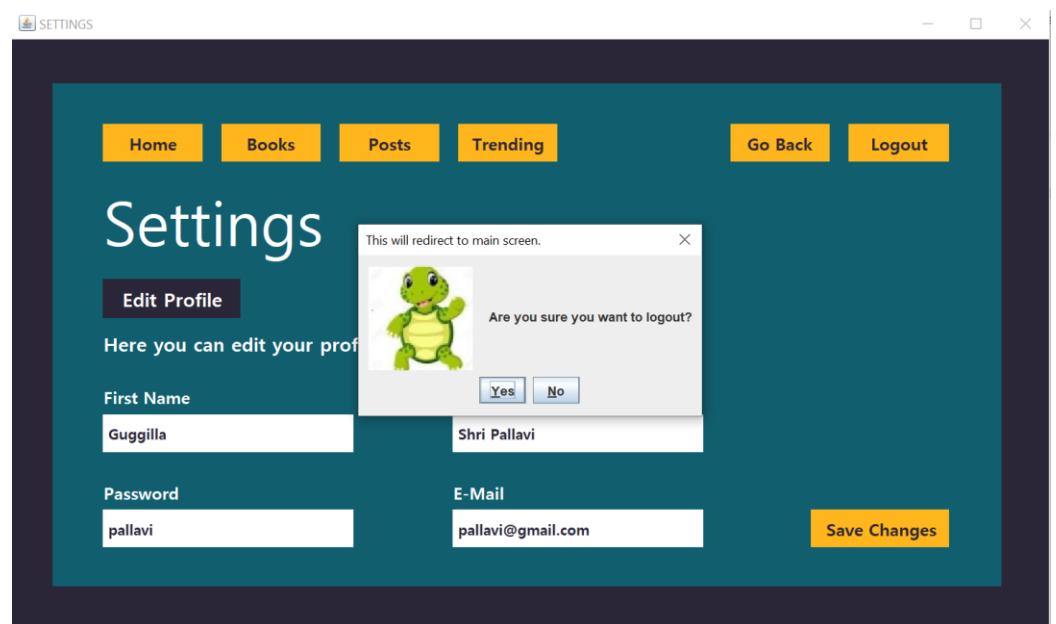
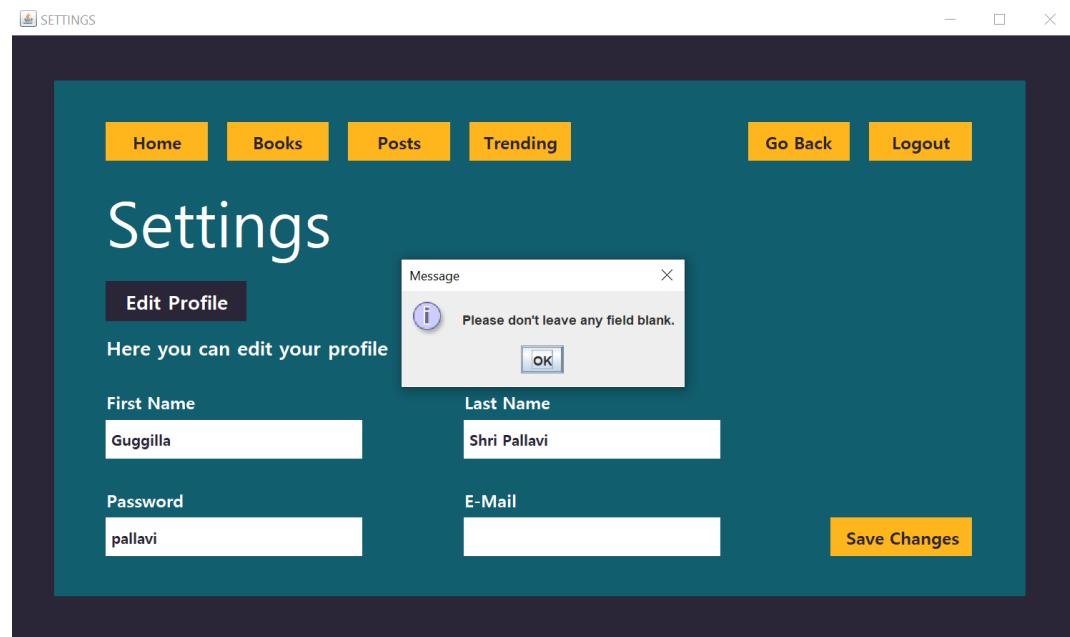
Rating: 4.3

Review:

Austen gives you brave and good heroes and heroines, despicable villains, a decent dose of comic relief, a great and complex plot, and plenty of suspense of the mostly restrained, emotional variety.

9.2.11. Settings.java





10. CONCLUSION

To conclude, we have built a platform to bring the traditional bookstore to the user. A registered user can view different books of various genres, posts their opinions on the book they've read and view the top trending books in every genre. We have made this application to simplify the exhausting process of selecting a book to read and help connect book lovers across the web.

11. FUTURE SCOPE OF PROJECT

Our future work includes incorporating more books into our database and we would like to add a feature which allows the User to add his/her liked books into a personal bookshelf. Other than this, we want to incorporate an Admin User who will have complete access and authority over the application.

This project can be further improved by converting it into a Web Application using Python and the Django Framework or a Mobile Application using Flutter or React Native.

12. REFERENCES

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