Technological Institute of the Philippines Manila
CCS-309-Parallel and Distributed Computing
Final Project Document

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Section\Sem\Year	CS33S2\SUMMER\3RD

Intended Learning Outcomes

At the end of this activity, the student is expected to:

1. Evaluate the student's capability to use the Java Language in creating a useful application; and
2. Create a business-related application using the principle of multi-threading.

A. Preliminaries:

I. Area of Research : (Communication, Educational Game, E-Learning, Tourism, etc)

- Senior High School Educational Reviewer

II. Title and Description of the Application.

FlashIt: Amplifying your Reviewing Experience

Based on the study "Improving students' learning with effective learning techniques: Promising directions from cognitive and educational psychology" by Dunlosky et al. (2013), it has been found that study techniques significantly impact students' exam performance. Notably, not all study techniques are equally effective, a point further supported by Balch in his study "Practice versus review exams and final exam performance" (1998).

We are pleased to present "FlashIt", a response to the growing need for effective study tools tailored for students. Leveraging the proven benefits of flashcards, as highlighted in Kornell's study "Optimising learning using flashcards: Spacing is more effective than cramming" (2019), FlashIt employs the spacing effect to enhance learning and retention. We aim to provide students with a sophisticated yet user-friendly flashcard application that helps them study more efficiently and retain information longer.

FlashIt is crafted with a focus on accessibility and ease of use, specifically designed for senior high school students, especially those from ICT or STEM backgrounds. The intuitive interface prioritizes usability, making it effortless for students to create, manage, and review their flashcards. By incorporating the spacing effect, FlashIt promotes long-term retention and effective learning.

FlashIt enables users to create personalized flashcard sets tailored to their specific needs. Moreover, FlashIt enhances the learning process by incorporating a unique collaborative feature: it mixes user-generated flashcard data with content from other users studying similar subjects. With randomization, this cross-pollination of ideas not only broadens the scope of study materials but also deepens understanding and retention by exposing students to diverse perspectives and variations of the same concepts.

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Whether you're studying alone or collaborating with peers, FlashIt provides the tools needed to optimize study habits and improve academic performance. With FlashIt, you can effortlessly create and review flashcards, benefit from the diverse inputs of other learners, and leverage scientifically-backed techniques to achieve academic excellence.

Discover FlashIt, the ultimate study companion designed to revolutionize your study experience. Embrace the power of effective study techniques, enhance your retention, and achieve academic success with FlashIt.

Key features:

- **User Interface (UI)**

  Intuitive Design: A clean and easy-to-navigate interface that allows users to quickly access flashcards and start quizzes.
  Responsive Layout: Ensure the UI adapts well to different screen sizes and remains responsive during various operations.

- **Flashcard Management**

  CRUD Operations: Allow users to create, read, update, and delete flashcards easily.
  Categories: Enable users to categorize flashcards by subject better organization.
  Collaboration Tools: Enables users to review their lessons by using flashcards created by other users or themselves, enhancing overall learning outcomes.
  Multimedia Support: Utilizing multimedia elements like images, audio, and video making concepts more memorable and engaging.

- **User Authentication and Profiles**

  User Accounts: Allow users to create accounts to save their preferences.
  Profile Management: Enable users to manage their profile.

- **Data Storage and Management**

  Database: Use of database to store flashcards and user data.

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III. Project Objectives (Why do you want to develop this App / Why your app is a solution)

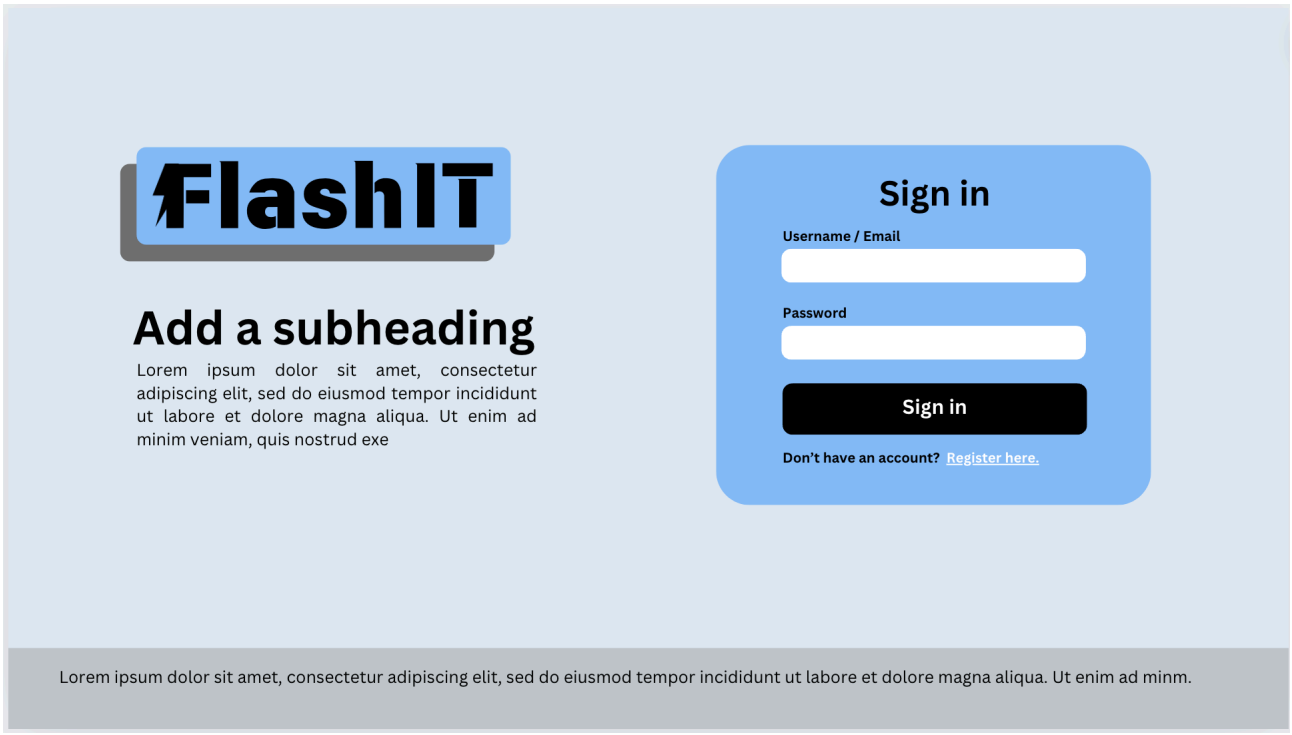
- **General Objective:**
  - To enhance the reviewing and studying experience by providing a dynamic and interactive platform for creating, sharing, and studying with flashcards.

- **Specific Objectives:**
  - Enhance learning efficiency and retention by leveraging the spacing effect for optimal review.
  - Improve academic performance with proven study techniques.
  - Ensure accessibility with an intuitive user interface.
  - Facilitate personalized learning through easy CRUD flashcard operations.
  - Support organized study habits with categorization features.
  - Promote collaborative learning with question sharing.
  - Engage users with multimedia elements.

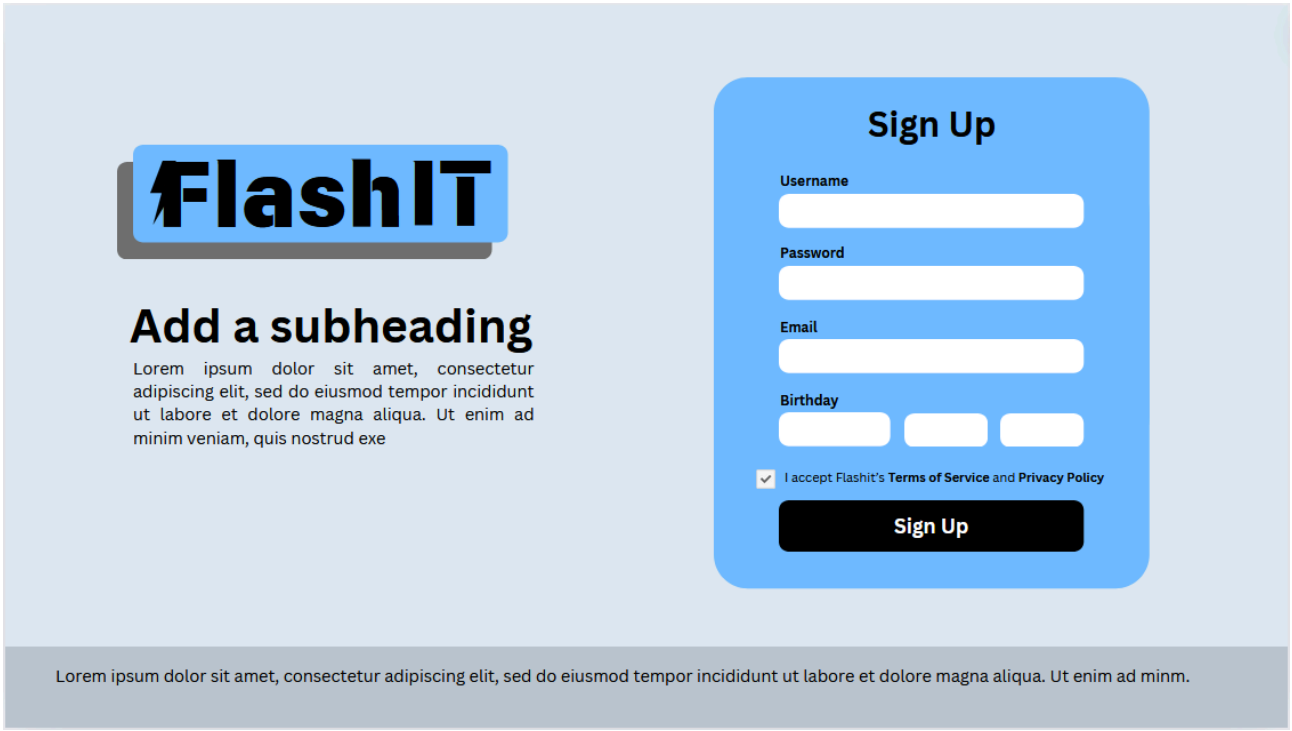
IV. Sample Screen Layout or Storyboard

A. Loading

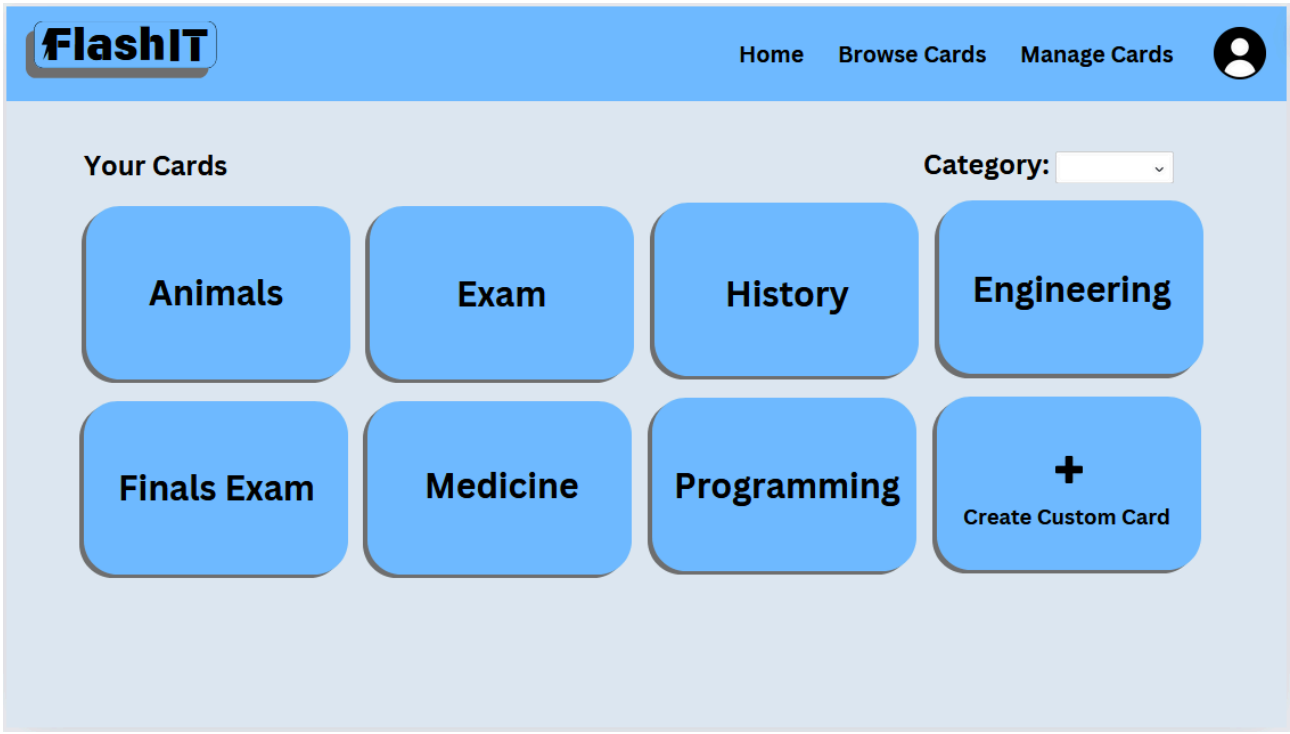
B. Sign In



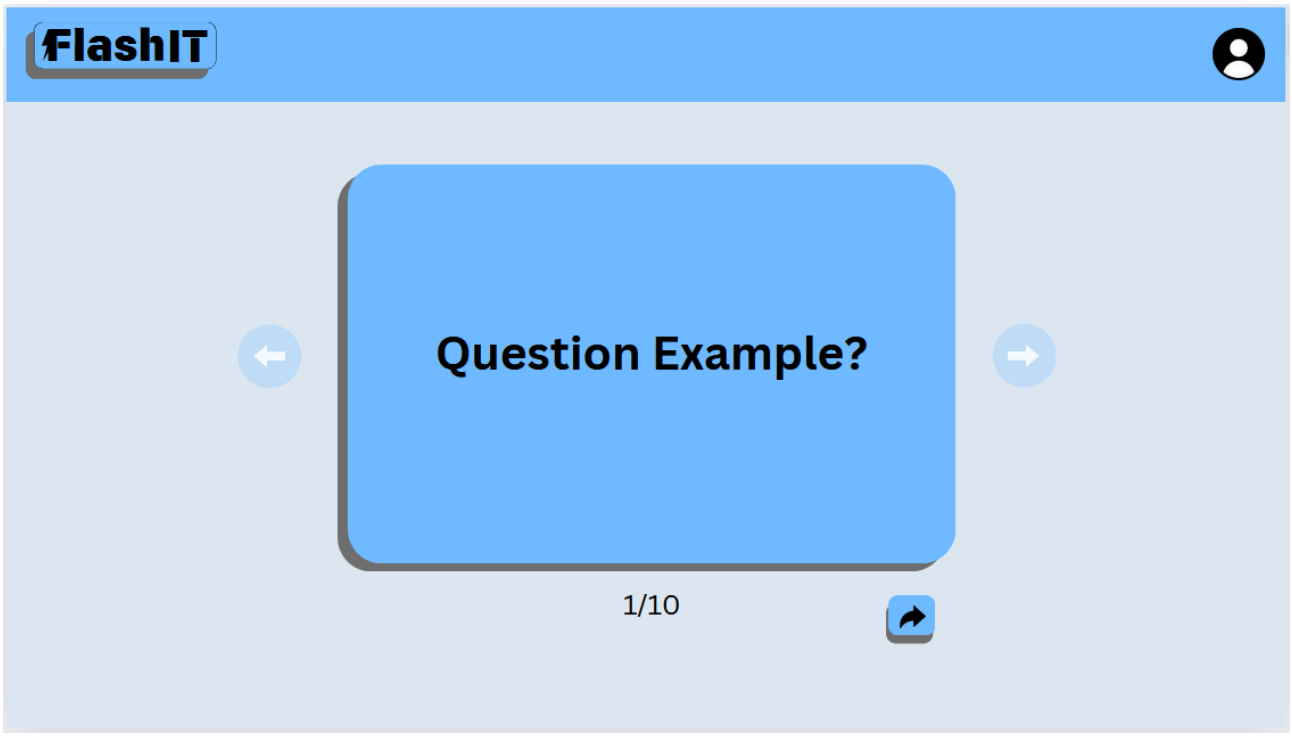
C. Signup



D. Menu

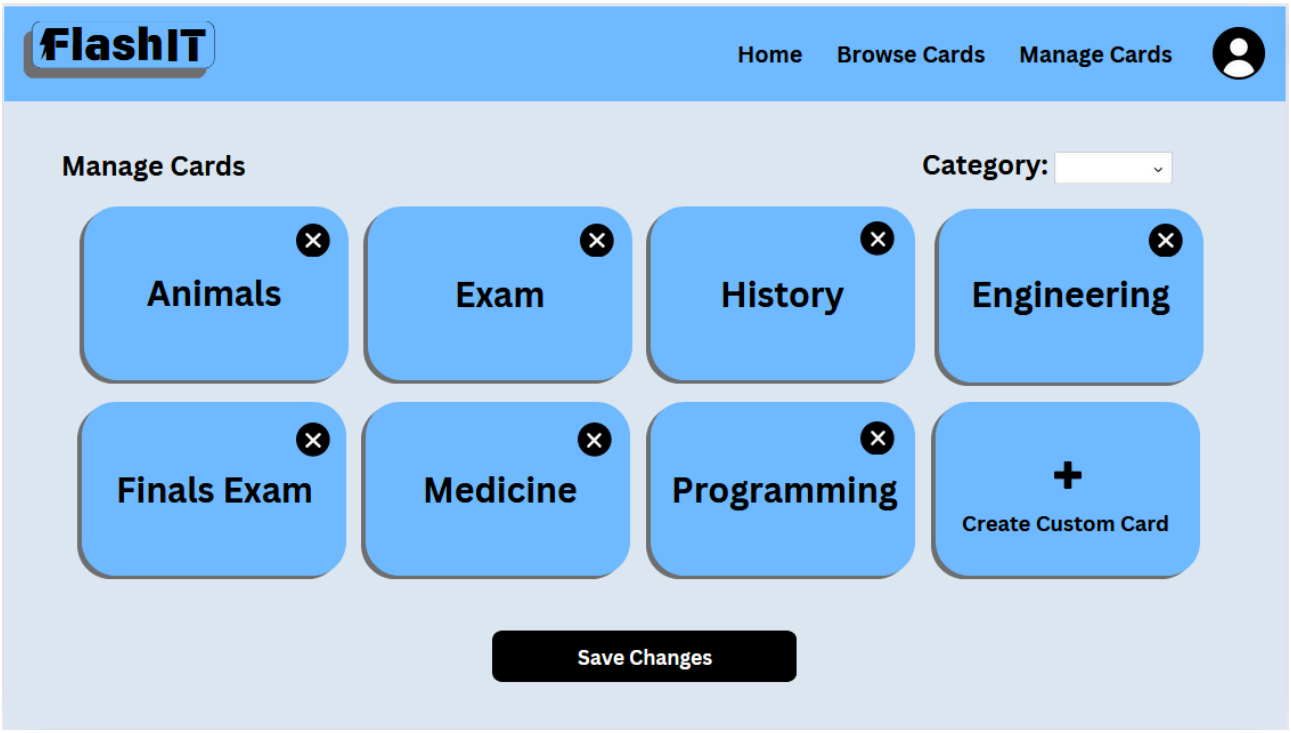

FlashIT
Home
Browse Cards
Manage Cards
Your Cards
Category:
Animals
Exam
History
Engineering
Finals Exam
Medicine
Programming
Create Custom Card

E. Card View

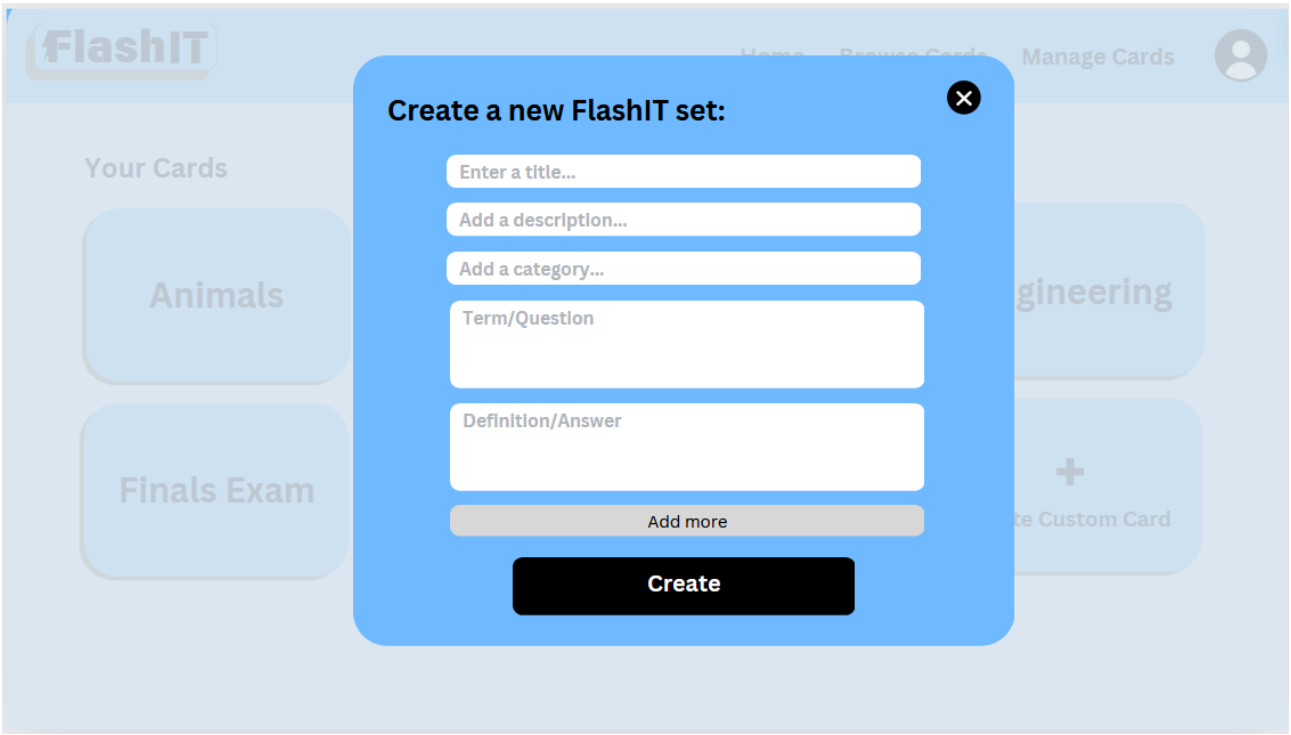

FlashIT
Question Example?
1/10

F. Card Management

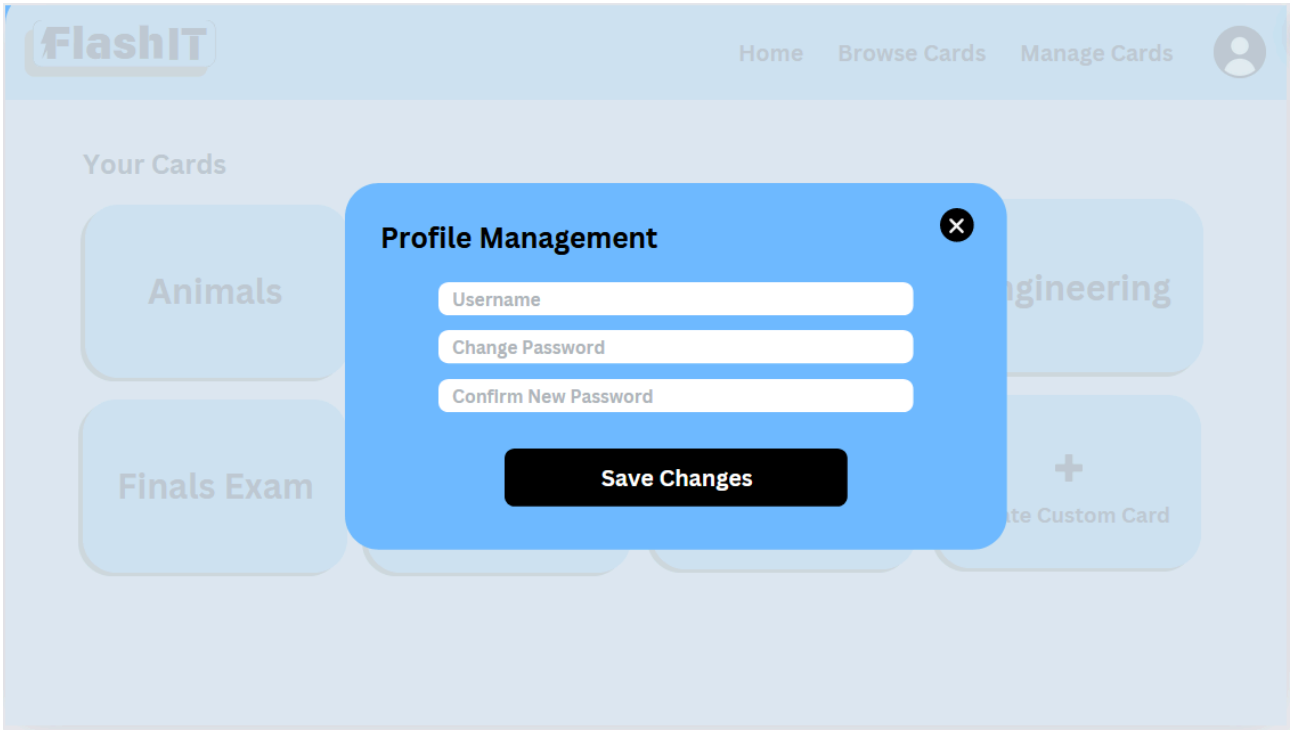
a. Deletion



b. Creation

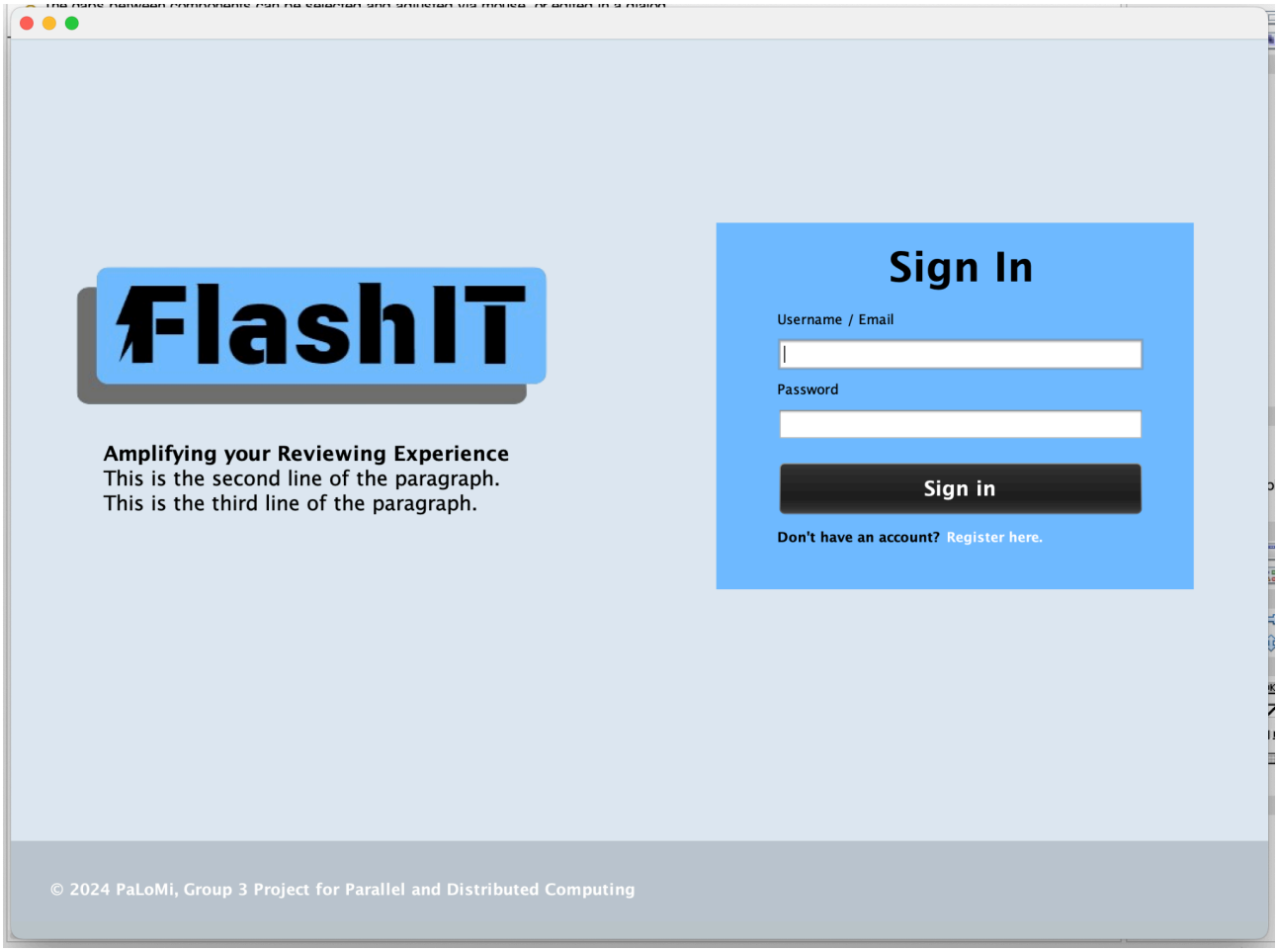


G. Profile Management

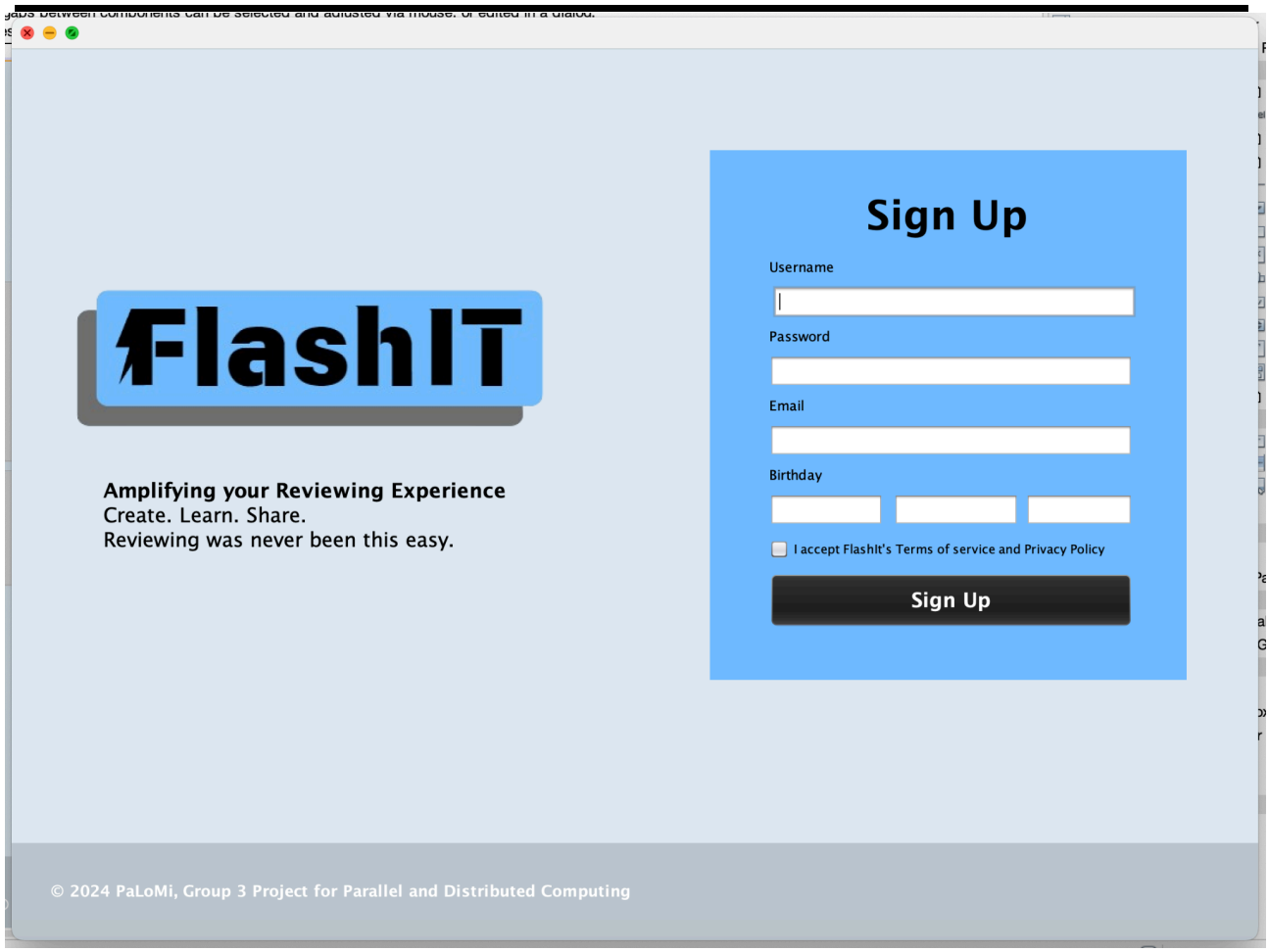


B. Completion of the Project

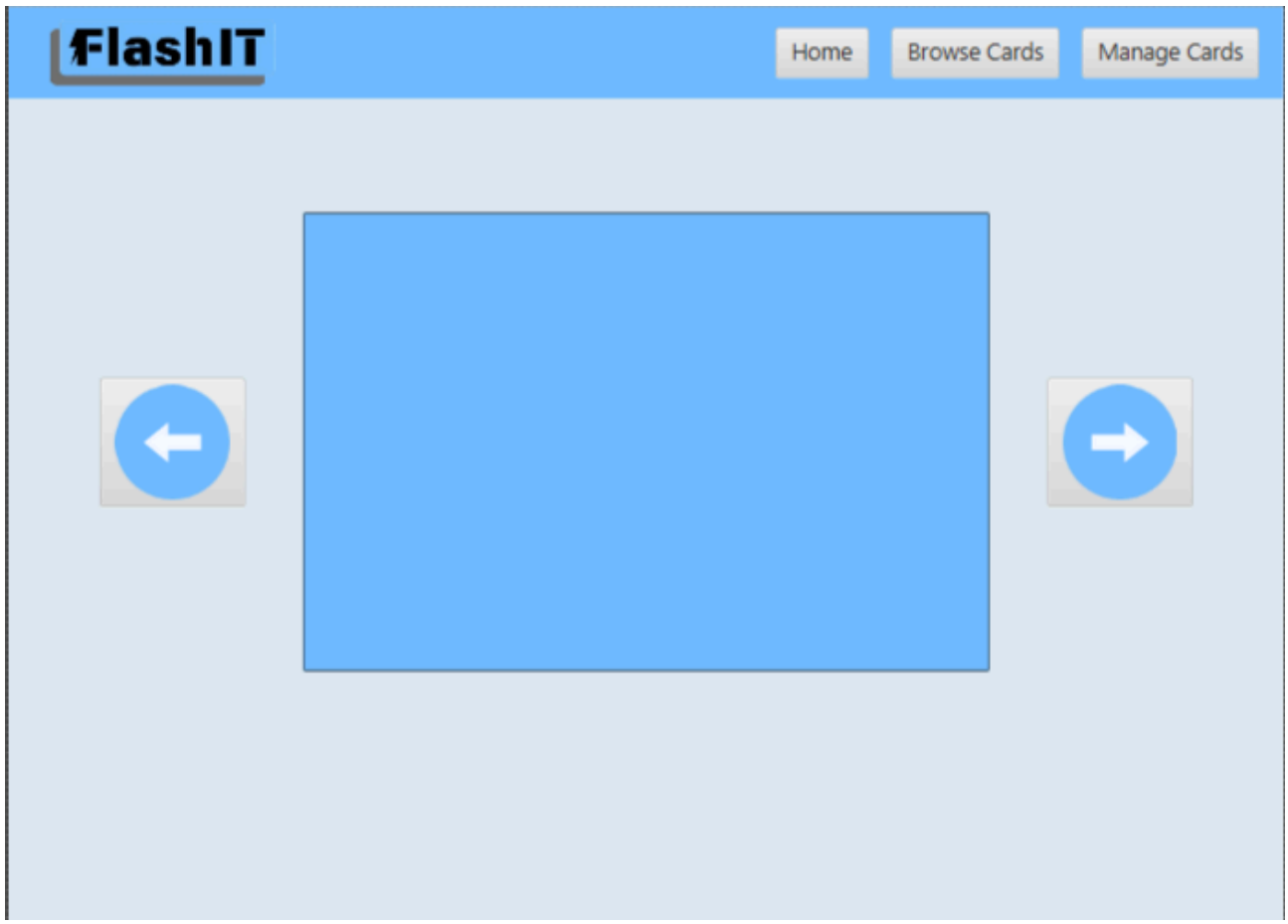
A. Final Screen Layout Screenshots (Write sub-title description)



Login Screen: User's input their credentials to proceed to the app, if none create one.



Registration Screen: Users input details to create their account



Card View: Users can see practice question

B. Source code (Copy and Paste all the source code)

LoginScreen.java:

```
/*
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
*/
package com.mycompany.flashit;

/**
*
* @author christinepapillero
*/
public class LoginScreen extends javax.swing.JFrame {

    /**
     * Creates new form LoginScreen
```

```
     */
    public LoginScreen() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated
Code">//GEN-BEGIN:initComponents
    private void initComponents() {

        BG = new javax.swing.JPanel();
        LOGO = new javax.swing.JLabel();
        jLabel1 = new javax.swing.JLabel();
        jPanel1 = new javax.swing.JPanel();
        jTextField1 = new javax.swing.JTextField();
        jTextField2 = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel7 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        jPanel2 = new javax.swing.JPanel();
        jLabel8 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        BG.setBackground(new java.awt.Color(221, 233, 241));
        BG.setPreferredSize(new java.awt.Dimension(1336, 768));

        LOGO.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/images/image-removebg-preview (1)
(1).png"))); // NOI18N

        jPanel1.setBackground(new java.awt.Color(112, 188, 255));

        jButton1.setBackground(new java.awt.Color(0, 0, 0));
        jButton1.setFont(new java.awt.Font("SansSerif", 1, 18)); // NOI18N
```

```
        jButton1.setForeground(new java.awt.Color(255, 255, 255));
        jButton1.setText("Sign in");
        jButton1.addMouseListener(new java.awt.event.MouseAdapter() {
            public void mouseClicked(java.awt.event.MouseEvent evt) {
                jButton1MouseClicked(evt);
            }
        });
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });

        jLabel2.setFont(new java.awt.Font("SansSerif", 0, 12)); // NOI18N
        jLabel2.setText("Username / Email");

        jLabel3.setFont(new java.awt.Font("SansSerif", 0, 12)); // NOI18N
        jLabel3.setText("Password");

        jLabel4.setFont(new java.awt.Font("SansSerif", 1, 36)); // NOI18N
        jLabel4.setText("Sign In");

        jLabel5.setFont(new java.awt.Font("SansSerif", 1, 12)); // NOI18N
        jLabel5.setText("Don't have an account?");

        jLabel7.setFont(new java.awt.Font("SansSerif", 1, 12)); // NOI18N
        jLabel7.setForeground(new java.awt.Color(255, 255, 255));
        jLabel7.setText("Register here.");

        javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                .addGap(54, 54, 54)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                        .addComponent(jLabel4)
                        .addGap(97, 97, 97))
                    .addComponent(jLabel3)
                    .addComponent(jLabel2)
```

```
                    .addComponent(jButton1, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 325, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jTextField2, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 325, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
325, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addComponent(jLabel5)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jLabel7)))
                .addGap(44, 44, 44))
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(14, 14, 14)
                .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 49,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 21,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 21,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 49,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 25,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 25,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addContainerGap(34, Short.MAX_VALUE))
        );
```

```
        jLabel6.setFont(new java.awt.Font("SansSerif", 0, 18)); // NOI18N
        jLabel6.setText("<html>\n<p><b>Amplifying your Reviewing Experience</p>\n<p>This
is the second line of the paragraph.</p>\n<p>This is the third line of the
paragraph.</p>\n</html>\n");

        jPanel2.setBackground(new java.awt.Color(188, 198, 205));

        jLabel8.setFont(new java.awt.Font("SansSerif", 1, 14)); // NOI18N
        jLabel8.setForeground(new java.awt.Color(255, 255, 255));
        jLabel8.setText("© 2024 PaLoMi, Group 3 Project for Parallel and Distributed
Computing ");

        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(35, 35, 35)
                .addComponent(jLabel8)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        jPanel2Layout.setVerticalGroup(
            jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(30, 30, 30)
                .addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED_SIZE, 25,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(32, Short.MAX_VALUE))
        );

        javax.swing.GroupLayout BGLayout = new javax.swing.GroupLayout(BG);
        BG.setLayout(BGLayout);
        BGLayout.setHorizontalGroup(
            BGLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(BGLayout.createSequentialGroup()

.addGroup(BGLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(BGLayout.createSequentialGroup()
                        .addGap(53, 53, 53)
                        .addComponent(LOGO, javax.swing.GroupLayout.PREFERRED_SIZE, 445,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(120, 120, 120)
                        .addComponent(jLabel1))
                    .addGroup(BGLayout.createSequentialGroup()
```

```
                        .addGap(82, 82, 82)
                        .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 7,
Short.MAX_VALUE)
                .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(66, 66, 66))
            .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );
        BGLayout.setVerticalGroup(
            BGLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(BGLayout.createSequentialGroup()
                .addGap(163, 163, 163)

.addGroup(BGLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(BGLayout.createSequentialGroup()
                        .addGap(33, 33, 33)
                        .addComponent(LOGO, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE,
105, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(269, 269, 269))
                    .addGroup(BGLayout.createSequentialGroup()

.addGroup(BGLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addGroup(BGLayout.createSequentialGroup()
                                .addGap(82, 82, 82)
                                .addComponent(jLabel1))
                            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 223,
Short.MAX_VALUE)))
                .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        );

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

```
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(BG, javax.swing.GroupLayout.DEFAULT_SIZE, 1114, Short.MAX_VALUE)
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(BG, javax.swing.GroupLayout.DEFAULT_SIZE, 798, Short.MAX_VALUE)
        );

        pack();
    }// </editor-fold>//GEN-END:initComponents

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_jButton1ActionPerformed
        // TODO add your handling code here:
    }//GEN-LAST:event_jButton1ActionPerformed

    private void jButton1MouseClicked(java.awt.event.MouseEvent evt)
{//GEN-FIRST:event_jButton1MouseClicked
        // TODO add your handling code here:
        new RegisterScreen().setVisible(true);
        this.setVisible(true);
    }//GEN-LAST:event_jButton1MouseClicked

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code
(optional) ">
        /* 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(LoginScreen.class.getName()).log(java.util.logging.Lev
el.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(LoginScreen.class.getName()).log(java.util.logging.Lev
el.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(LoginScreen.class.getName()).log(java.util.logging.Lev
el.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(LoginScreen.class.getName()).log(java.util.logging.Lev
el.SEVERE, null, ex);
        }
        //</editor-fold>

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

    // Variables declaration - do not modify//GEN-BEGIN:variables
    private javax.swing.JPanel BG;
    private javax.swing.JLabel LOGO;
    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.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField jTextField2;
    // End of variables declaration//GEN-END:variables
}
```

pom.xml file

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
   <modelVersion>4.0.0</modelVersion>
   <groupId>com.mycompany</groupId>
   <artifactId>FLASHIT</artifactId>
   <version>1.0-SNAPSHOT</version>
   <packaging>jar</packaging>
   <properties>
       <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
       <maven.compiler.source>19</maven.compiler.source>
       <maven.compiler.target>19</maven.compiler.target>
       <exec.mainClass>com.mycompany.flashit.FLASHIT</exec.mainClass>
         <javafx.version>19</javafx.version>
       <javafx.maven.plugin.version>0.0.8</javafx.maven.plugin.version>
   </properties>

   <dependencies>
       <dependency>
           <groupId>org.openjfx</groupId>
           <artifactId>javafx-controls</artifactId>
           <version>${javafx.version}</version>
       </dependency>

       <dependency>
           <groupId>org.openjfx</groupId>
           <artifactId>javafx-media</artifactId>
           <version>${javafx.version}</version>
       </dependency>

       <dependency>
           <groupId>org.openjfx</groupId>
           <artifactId>javafx-fxml</artifactId>
           <version>${javafx.version}</version>
       </dependency>
       <dependency>
           <groupId>com.google.firebase</groupId>
           <artifactId>firebase-admin</artifactId>
```

```
            <version>9.3.0</version>
        </dependency>
    </dependencies>


    <build>
        <plugins>

            <plugin>
                <groupId>org.openjfx</groupId>
                <artifactId>javafx-maven-plugin</artifactId>
                <version>${javafx.maven.plugin.version}</version>
                <configuration>
                    <mainClass>com.mycompany.flashit.FLASHIT</mainClass>
                </configuration>
            </plugin>


            <plugin>
                <groupId>org.apache.maven.plugins</groupId>
                <artifactId>maven-compiler-plugin</artifactId>
                <version>3.7.0</version>
                <configuration>
                    <source>19</source>
                    <target>19</target>
                    <encoding>UTF-8</encoding>
                </configuration>
            </plugin>
        </plugins>
    </build>




</project>
```

C. Rubric

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Criteria	Ratings				Pts
Program execution (20pts)	**20 pts** **Excellent** Program executes correctly with no syntax or runtime errors	**17 pts** **Good** Program executes with less than 3 errors	**14 pts** **Fair** Program executes with more than 3 errors	**11 pts** **Poor** Program does not execute	20 pts
Correct output (20pts)	**20 pts** **Excellent** Program displays correct output with no errors	**17 pts** **Good** Output has minor errors	**14 pts** **Fair** Output has multiple errors	**11 pts** **Poor** Output is incorrec	20 pts
Design of output (10pts)	**10 pts** **Excellent** Program displays more than expected	**9 pts** **Good** Program displays minimally expected output	**7 pts** **Fair** Program does not display the required output	**5 pts** **Poor** Output is poorly designed	10 pts
Design of logic (20pts)	**20 pts** **Excellent** Program is logically well designed	**17 pts** **Good** Program has slight logic errors that do no significantly affect the results	**14 pts** **Fair** Program has significant logic errors	**11 pts** **Poor** Program is incorre	20 pts
Standards (20pts)	**20 pts** **Excellent** Program code is stylistically well designed	**17 pts** **Good** Few inappropriate design choices (i.e. poor variable names, improper indentation)	**14 pts** **Fair** Several inappropriate design choices (i.e. poor variable names, improper indentation)	**11 pts** **Poor** Program is poorly written	20 pts
Delivery (10pts)	**10 pts** **Excellent** The program was delivered on time.	**9 pts** **Good** The program was delivered a day after the deadline.	**7 pts** **Fair** The program was delivered two days after the deadline.	**5 pts** **Poor** The program was delivered more tha two days after the deadline.	10 pts

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Criteria	Ratings	Pts
Total Points: 100		

“I affirm that I have not given or received any unauthorized help on this assignment, and that this work is my own.”

_____

(Your E-Signature)