

CODING PLATFORM MANAGEMENT

A MINI-PROJECT BY:

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BONAFIDE CERTIFICATE

Certified that this project “**CODING PLATFORM MANAGEMENT**” is the bonafide work of “**KUMARAN S , LOKESH SINGH N**” who carried out the project work under my supervision.

Submitted for the practical examination held on _____

INTERNAL EXAMINER

EXTERNAL EXAMINER

ABSTRACT

The **Coding Platform Management System** is a desktop-based application developed using Java Swing and MySQL to facilitate an interactive and user-friendly environment for coders to participate in challenges, submit solutions, and track their performance through a leaderboard.

The platform integrates essential features such as user registration, login, challenge creation, solution submission, and a dynamic leaderboard.

Administrators and authorized users can contribute to the platform by creating new challenges, ensuring a continuously evolving repository of problems to keep the coding community engaged.

The system's back-end architecture is designed for scalability and efficiency, leveraging SQL-based operations to manage user data, challenge records, while ensuring data integrity through well-defined relationships among the tables.

This application provides a simple, scalable, and engaging platform for coding enthusiasts, and fostering a coding community.

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INTRODUCTION

1.1 INTRODUCTION

The **Coding Platform Management System** is designed to provide a centralized solution for managing coding challenges and competitions. This system allows users to register, log in, and participate in challenges tailored to various skill levels. By integrating features such as automated code submission evaluation and dynamic leaderboards, the platform creates an engaging environment for learning and competitive programming. Developed with Java Swing for a user-friendly interface and MySQL for backend data management, the platform ensures a robust and secure environment for users to enhance their coding skills.

1.2 IMPLEMENTATION

The **CODING PLATFORM MANAGEMENT** project discussed here is implemented using the concepts of **JAVA SWINGS** and **MYSQL**.

1.3 SCOPE OF THE PROJECT

This **System** provides a centralized platform for coding enthusiasts to enhance their skills through challenges and competitions. It facilitates user registration, secure authentication, automated code evaluation, and a dynamic leaderboard. Designed to be scalable, it caters to individual learners, coding communities, and organizations hosting coding events.

1.3 WEBSITE FEATURES

- ★ Registration and Login Page.
- ★ Main Dashboard and Users Score
- ★ Challenge Frame and Create Challenge Frame.
- ★ Submission Frame and Leaderboard Frame

SYSTEM SPECIFICATIONS

2.1 HARDWARE SPECIFICATIONS:

PROCESSOR : Intel i3

MEMORY SIZE : 4.00 GB

2.2 SOFTWARE SPECIFICATIONS:

PROGRAMMING LANGUAGE : Java, MySQL

FRONT-END : Java

BACK-END : MySQL

OPERATING SYSTEM : Windows 10

SAMPLE CODE

3.1 MAIN PAGE DESIGN

```
import javax.swing.*;

public class Main {
    public static void main(String[] args) {
        try {
            UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassName());
        } catch (Exception e) {
            e.printStackTrace();
        }
        SwingUtilities.invokeLater(() -> {
            LoginFrame loginFrame = new LoginFrame();
            loginFrame.setVisible(true);
        });
    }
}
```

3.2 REGISTRATION PAGE DESIGN

```
import javax.swing.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class RegistrationFrame extends JFrame {
    private JTextField usernameField;
    private JTextField emailField;
    private JPasswordField passwordField;
    private JButton registerButton;

    public RegistrationFrame() {
        setTitle("Register");
        setSize(400, 350);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setLocationRelativeTo(null);

        JPanel panel = new JPanel();
        panel.setLayout(null);

        JLabel usernameLabel = new JLabel("Username:");
        usernameLabel.setBounds(50, 50, 100, 30);
        panel.add(usernameLabel);

        usernameField = new JTextField();
        usernameField.setBounds(150, 50, 150, 30);
        panel.add(usernameField);

        JLabel emailLabel = new JLabel("Email:");
```

```
emailLabel.setBounds(50, 100, 100, 30);  
panel.add(emailLabel);
```

```
emailField = new JTextField();  
emailField.setBounds(150, 100, 150, 30);  
panel.add(emailField);
```

```
JLabel passwordLabel = new JLabel("Password:");  
passwordLabel.setBounds(50, 150, 100, 30);  
panel.add(passwordLabel);
```

```
passwordField = new JPasswordField();  
passwordField.setBounds(150, 150, 150, 30);  
panel.add(passwordField);
```

```
registerButton = new JButton("Register");  
registerButton.setBounds(150, 200, 100, 30);  
panel.add(registerButton);
```

```
registerButton.addActionListener(new ActionListener() {  
    @Override  
    public void actionPerformed(ActionEvent e) {  
        String username = usernameField.getText();  
        String email = emailField.getText();  
        String password = new String(passwordField.getPassword());  
        Database.registerUser(username, password, email);  
        JOptionPane.showMessageDialog(null, "Registration successful!");  
        new LoginFrame().setVisible(true);  
        dispose();  
    }  
});
```

```
add(panel);
```

```
}
```

```
public static void main(String[] args) {  
    SwingUtilities.invokeLater(() -> {  
        new RegistrationFrame().setVisible(true);  
    });  
}
```

```
}
```


3.3 LOGIN PAGE DESIGN:

```
import javax.swing.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class LoginFrame extends JFrame {
    private JTextField usernameField;
    private JPasswordField passwordField;
    private JButton loginButton;
    private JButton registerButton;

    public LoginFrame() {
        setTitle("Login");
        setSize(400, 300);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setLocationRelativeTo(null);

        JPanel panel = new JPanel();
        panel.setLayout(null);

        JLabel usernameLabel = new JLabel("Username:");
        usernameLabel.setBounds(50, 50, 100, 30);
        panel.add(usernameLabel);

        usernameField = new JTextField();
        usernameField.setBounds(150, 50, 150, 30);
        panel.add(usernameField);

        JLabel passwordLabel = new JLabel("Password:");
        passwordLabel.setBounds(50, 100, 100, 30);
        panel.add(passwordLabel);

        passwordField = new JPasswordField();
        passwordField.setBounds(150, 100, 150, 30);
        panel.add(passwordField);

        loginButton = new JButton("Login");
        loginButton.setBounds(50, 150, 100, 30);
        panel.add(loginButton);

        registerButton = new JButton("Register");
        registerButton.setBounds(200, 150, 100, 30);
        panel.add(registerButton);

        loginButton.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                String username = usernameField.getText();
                String password = new String(passwordField.getPassword());
                int userId = Database.isLoginValid(username, password);
            }
        });
    }
}
```

```

        if (userId != -1) {
            new MainDashboard(username, userId).setVisible(true);
            dispose();
        } else {
            JOptionPane.showMessageDialog(null, "Invalid credentials, please try again.");
        }
    }
});

registerButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        new RegistrationFrame().setVisible(true);
        dispose();
    }
});

add(panel);
}

public static void main(String[] args) {
    SwingUtilities.invokeLater(() -> {
        new LoginFrame().setVisible(true);
    });
}
}

```

3.4 DASHBOARD DESIGN

```

import javax.swing.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class MainDashboard extends JFrame {
    private int userId;
    private String username;

    public MainDashboard(String username, int userId) {
        this.username = username;
        this.userId = userId;

        setTitle("Dashboard");
        setSize(400, 300);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setLocationRelativeTo(null);

        JPanel panel = new JPanel();
        panel.setLayout(null);
    }
}

```

```

JLabel welcomeLabel = new JLabel("Welcome, " + username + "!");
welcomeLabel.setBounds(50, 30, 300, 30);
panel.add(welcomeLabel);

JButton challengesButton = new JButton("Challenges");
challengesButton.setBounds(100, 80, 150, 30);
panel.add(challengesButton);

JButton createChallengeButton = new JButton("Create Challenge");
createChallengeButton.setBounds(100, 120, 150, 30);
panel.add(createChallengeButton);

JButton leaderboardButton = new JButton("Leaderboard");
leaderboardButton.setBounds(100, 160, 150, 30);
panel.add(leaderboardButton);

challengesButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        new ChallengeFrame(userId).setVisible(true);
    }
});

createChallengeButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        new CreateChallengeFrame(userId).setVisible(true);
    }
});

leaderboardButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        new LeaderboardFrame().setVisible(true);
    }
});

add(panel);
}
}

```

3.5 CHALLENGE FRAME DESIGN

```

import javax.swing.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.util.List;

public class ChallengeFrame extends JFrame {
    private int userId;

```

```

public ChallengeFrame(int userId) {
    this.userId = userId;

    setTitle("Challenges");
    setSize(600, 500);
    setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
    setLocationRelativeTo(null);

    JPanel panel = new JPanel();
    panel.setLayout(null);

    JLabel selectChallengeLabel = new JLabel("Select a challenge:");
    selectChallengeLabel.setBounds(50, 30, 300, 30);
    panel.add(selectChallengeLabel);

    List<String> challenges = Database.getChallenges();
    int yPosition = 80;
    for (String challenge : challenges) {
        JButton challengeButton = new JButton(challenge);
        challengeButton.setBounds(100, yPosition, 300, 50);
        yPosition += 60;

        challengeButton.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                int challengeId = Database.getChallengeId(challenge);
                JTextArea codeArea = new JTextArea(10, 40);
                codeArea.setLineWrap(true);
                codeArea.setWrapStyleWord(true);
                JScrollPane scrollPane = new JScrollPane(codeArea);
                int result = JOptionPane.showConfirmDialog(
                    null,
                    scrollPane,
                    "Enter solution code:",
                    JOptionPane.OK_CANCEL_OPTION,
                    JOptionPane.PLAIN_MESSAGE

                );

                if (result == JOptionPane.OK_OPTION) {
                    String code = codeArea.getText();
                    Database.submitSolution(userId, challengeId, code);
                    JOptionPane.showMessageDialog(null, "Challenge submitted!");
                }
            }
        });
        panel.add(challengeButton);
    }
    JScrollPane scrollPane = new JScrollPane(panel);
    add(scrollPane);
}

```

3.6 CREATE CHALLENGE FRAME DESIGN

```
import javax.swing.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class CreateChallengeFame extends JFrame {
    private int userId;

    public CreateChallengeFame(int userId) {
        this.userId = userId;

        setTitle("Create Challenge");
        setSize(400, 300);
        setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
        setLocationRelativeTo(null);

        JPanel panel = new JPanel();
        panel.setLayout(null);

        JLabel titleLabel = new JLabel("Challenge Title:");
        titleLabel.setBounds(50, 30, 100, 30);
        panel.add(titleLabel);

        JTextField titleField = new JTextField();
        titleField.setBounds(150, 30, 150, 30);
        panel.add(titleField);

        JLabel descLabel = new JLabel("Description:");
        descLabel.setBounds(50, 80, 100, 30);
        panel.add(descLabel);

        JTextArea descField = new JTextArea();
        descField.setBounds(150, 80, 150, 70);
        panel.add(descField);

        JButton createButton = new JButton("Create Challenge");
        createButton.setBounds(100, 200, 150, 30);
        panel.add(createButton);

        createButton.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                String title = titleField.getText();
                String description = descField.getText();

                if (title.isEmpty() || description.isEmpty()) {
                    JOptionPane.showMessageDialog(null, "Please fill out all fields.");
                }
            }
        });
    }
}
```

```

        } else {
            Database.createChallenge(title, description, userId);
            JOptionPane.showMessageDialog(null, "Challenge created!");
            dispose();
        }
    }
});

add(panel);
}
}

```

3.7 SUBMISSION FRAME DESIGN

```

import javax.swing.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class SubmissionFrame extends JFrame {
    private int userId;
    private int challengeId;

    public SubmissionFrame(int userId, int challengeId) {
        this.userId = userId;
        this.challengeId = challengeId;

        setTitle("Submit Solution");
        setSize(400, 300);
        setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
        setLocationRelativeTo(null);

        JPanel panel = new JPanel();
        panel.setLayout(null);

        JLabel codeLabel = new JLabel("Enter your solution code:");
        codeLabel.setBounds(50, 30, 300, 30);
        panel.add(codeLabel);

        JTextArea codeArea = new JTextArea();
        codeArea.setBounds(50, 70, 300, 100);
        panel.add(codeArea);

        JButton submitButton = new JButton("Submit");
        submitButton.setBounds(150, 200, 100, 30);
        panel.add(submitButton);

        submitButton.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                String code = codeArea.getText();
                Database.submitSolution(userId, challengeId, code);
                JOptionPane.showMessageDialog(null, "Solution submitted!");
            }
        });
    }
}

```

```

        dispose();
    }
});

add(panel);
}
}

```

3.8 LEADERBOARD FRAME DESIGN

```

import javax.swing.*;
import javax.swing.table.DefaultTableModel;
import java.awt.*;
import java.util.List;

public class LeaderboardFrame extends JFrame {

    public LeaderboardFrame() {
        setTitle("Leaderboard");
        setSize(400, 300);
        setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
        setLocationRelativeTo(null);

        JPanel panel = new JPanel();
        panel.setLayout(new BorderLayout());

        JLabel titleLabel = new JLabel("Leaderboard", JLabel.CENTER);
        titleLabel.setFont(new Font("Arial", Font.BOLD, 20));
        panel.add(titleLabel, BorderLayout.NORTH);

        String[] columnNames = {"Rank", "Username", "Score"};
        DefaultTableModel model = new DefaultTableModel(columnNames, 0);

        List<UserScore> scores = Database.getTopScores();
        int rank = 1;
        for (UserScore score : scores) {
            model.addRow(new Object[]{rank++, score.getUsername(), score.getScore()});
        }

        JTable table = new JTable(model);
        panel.add(new JScrollPane(table), BorderLayout.CENTER);

        add(panel);
    }
}

```

3.9 USERS SCORE

```
public class UserScore {
    private String username;
    private int score;

    public UserScore(String username, int score) {
        this.username = username;
        this.score = score;
    }

    public String getUsername() {
        return username;
    }

    public int getScore() {
        return score;
    }
}
```

3.10 DATABASE CONNECTIVITY

```
import java.sql.*;
import java.util.ArrayList;
import java.util.List;

public class Database {
    private static final String URL = "jdbc:mysql://localhost:3306/coding_platform";
    private static final String USER = "root";
    private static final String PASSWORD = "Sakk29@2006";

    public static Connection connect() {
        try {
            return DriverManager.getConnection(URL, USER, PASSWORD);
        } catch (SQLException e) {
            e.printStackTrace();
            return null;
        }
    }

    public static int isLoginValid(String username, String password) {
        String query = "SELECT user_id FROM users WHERE username = ? AND password_hash = ?";
        try (Connection conn = connect(); PreparedStatement ps = conn.prepareStatement(query)) {
            ps.setString(1, username);
            ps.setString(2, password);
            ResultSet rs = ps.executeQuery();
            if (rs.next()) {
                return rs.getInt("user_id");
            } else {

```



```

        return -1;
    }
} catch (SQLException e) {
    e.printStackTrace();
    return -1;
}
}

```

```

public static void registerUser(String username, String password, String email) {
    String insertQuery = "INSERT INTO users (username, password_hash, email) VALUES (?, ?, ?)";
    try (Connection conn = connect(); PreparedStatement stmt = conn.prepareStatement(insertQuery)) {
        stmt.setString(1, username);
        stmt.setString(2, password);
        stmt.setString(3, email);
        stmt.executeUpdate();
        System.out.println("User registered successfully.");
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

```

```

public static void createChallenge(String title, String description, int userId) {
    String query = "INSERT INTO challenges (title, description, difficulty) VALUES (?, ?, 'Easy')";
    try (Connection conn = connect(); PreparedStatement ps = conn.prepareStatement(query)) {
        ps.setString(1, title);
        ps.setString(2, description);
        ps.executeUpdate();
        System.out.println("Challenge created successfully.");
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

```

```

public static List<String> getChallenges() {
    List<String> challenges = new ArrayList<>();
    String query = "SELECT title FROM challenges";
    try (Connection conn = connect(); PreparedStatement ps = conn.prepareStatement(query)) {
        ResultSet rs = ps.executeQuery();
        while (rs.next()) {
            challenges.add(rs.getString("title"));
        }
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return challenges;
}

```

```

public static int getChallengeId(String challengeTitle) {
    String query = "SELECT challenge_id FROM challenges WHERE title = ?";
    try (Connection conn = connect(); PreparedStatement ps = conn.prepareStatement(query)) {
        ps.setString(1, challengeTitle);
        ResultSet rs = ps.executeQuery();
    }
}

```

```

        if (rs.next()) {
            return rs.getInt("challenge_id");
        } else {
            return -1;
        }
    } catch (SQLException e) {
        e.printStackTrace();
        return -1;
    }
}

```

```

public static void submitSolution(int userId, int challengeId, String code) {
    String insertSubmission = "INSERT INTO submissions (user_id, challenge_id, code, status, submission_time) VALUES (?, ?, ?, 'Passed', NOW())";
    try (Connection conn = connect(); PreparedStatement stmt = conn.prepareStatement(insertSubmission)) {
        stmt.setInt(1, userId);
        stmt.setInt(2, challengeId);
        stmt.setString(3, code);
        stmt.executeUpdate();

        updateScore(userId, 10); // Assume each successful submission adds 10 points
        System.out.println("Solution submitted successfully and score updated.");
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

```

```

public static void updateScore(int userId, int score) {
    String query = "UPDATE users SET score = score + ? WHERE user_id = ?";
    try (Connection conn = connect(); PreparedStatement stmt = conn.prepareStatement(query)) {
        stmt.setInt(1, score);
        stmt.setInt(2, userId);
        stmt.executeUpdate();
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

```

```

public static List<String> getLeaderboard() {
    List<String> leaderboard = new ArrayList<>();
    String query = "SELECT username, score FROM users ORDER BY score DESC";
    try (Connection conn = connect(); PreparedStatement ps = conn.prepareStatement(query)) {
        ResultSet rs = ps.executeQuery();
        while (rs.next()) {
            leaderboard.add(rs.getString("username") + ": " + rs.getInt("score") + " points");
        }
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return leaderboard;
}

```

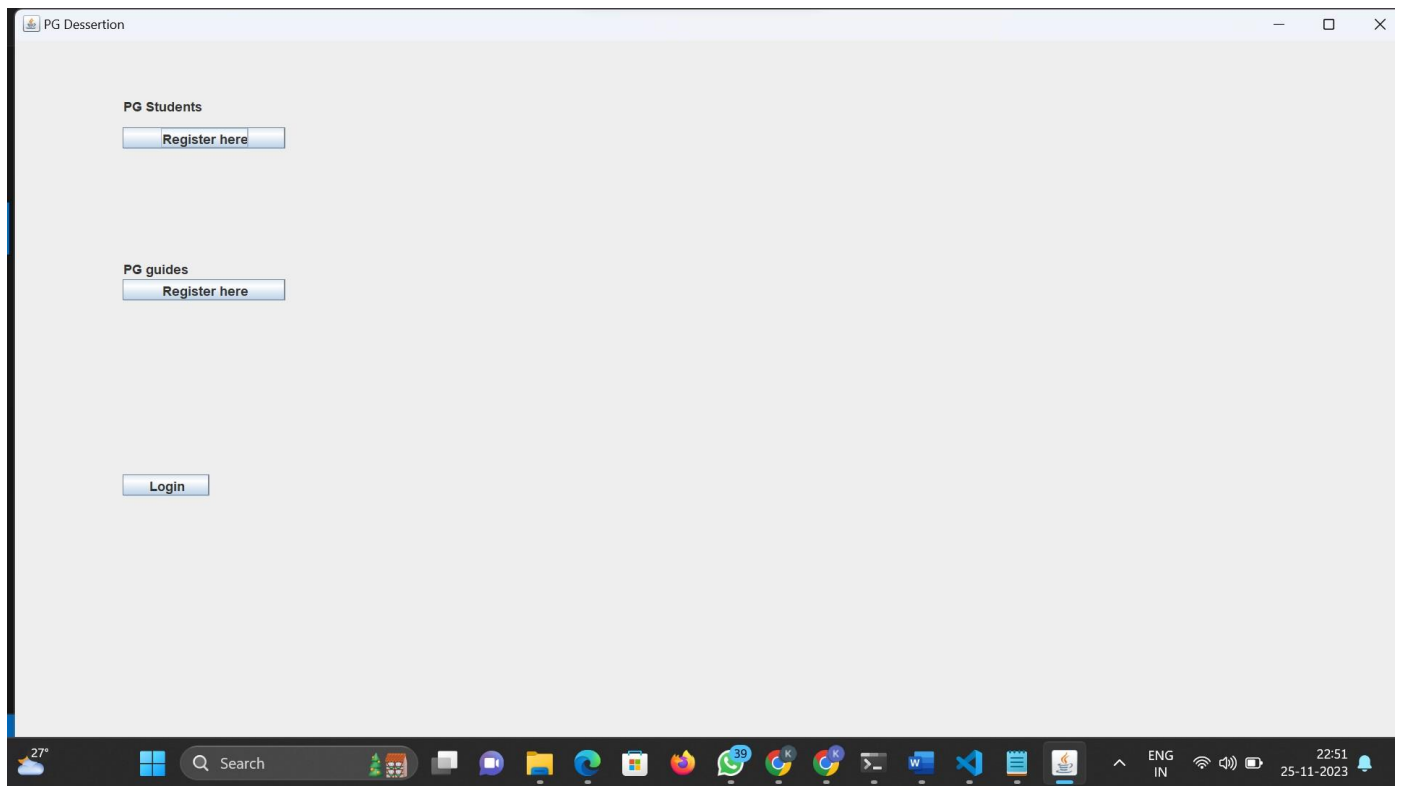
```

public static List<UserScore> getTopScores() {
    List<UserScore> scores = new ArrayList<>();
    String query = "SELECT username, score FROM users ORDER BY score DESC LIMIT 10";
    try (Connection conn = connect(); PreparedStatement ps = conn.prepareStatement(query)) {
        ResultSet rs = ps.executeQuery();
        while (rs.next()) {
            String username = rs.getString("username");
            int score = rs.getInt("score");
            scores.add(new UserScore(username, score));
        }
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return scores;
}
}

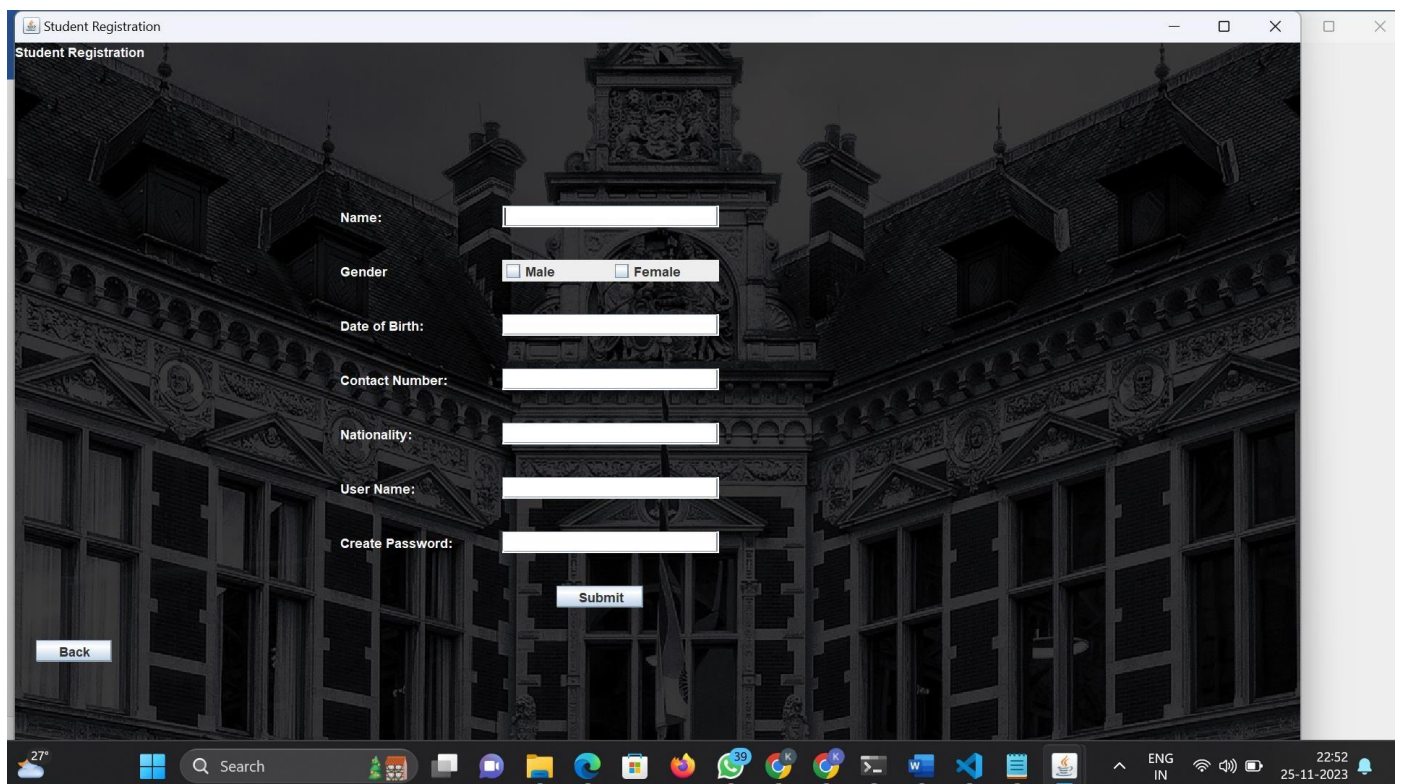
```

SNAPSHOTS

4.1 HOME PAGE



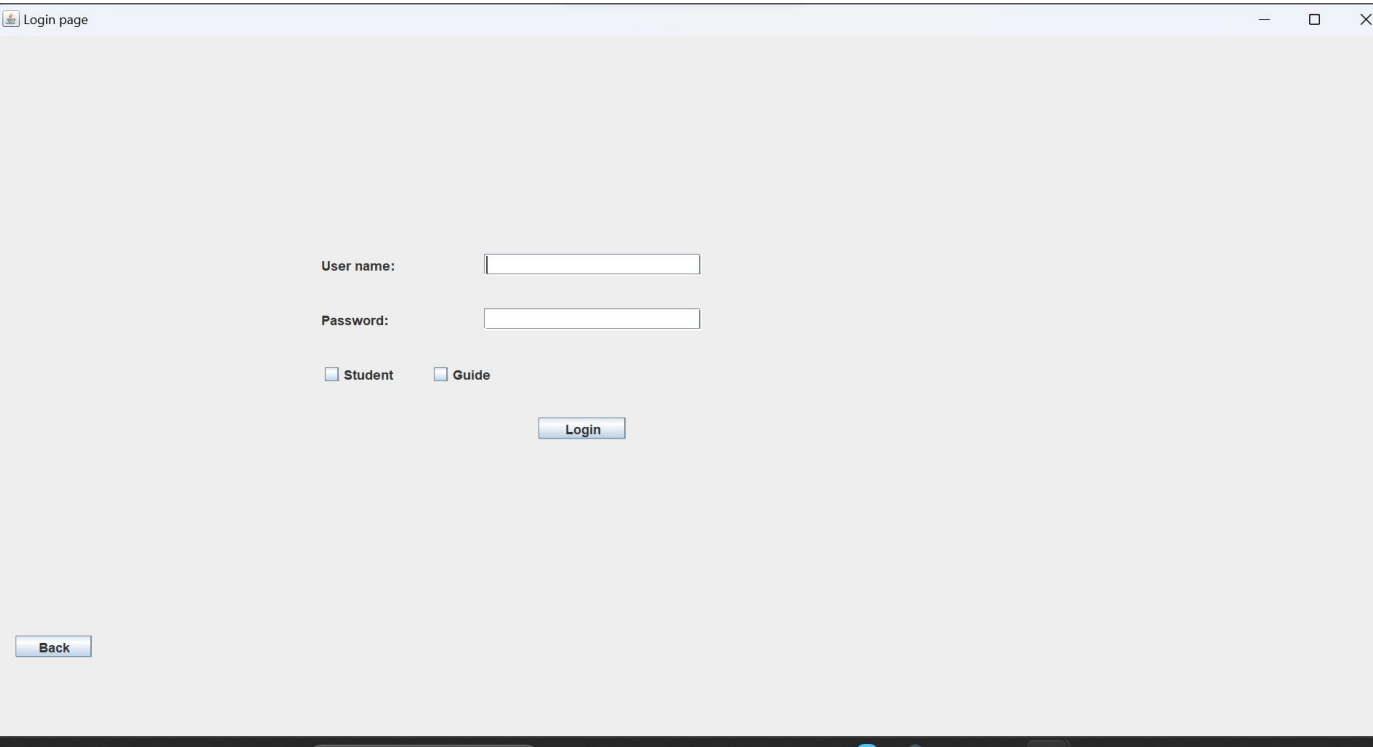
4.2 STUDENT REGISTRATION PAGE



4.3 GUIDE REGISTRATION

The image is a screenshot of a Windows 11 desktop. The primary focus is a web browser window titled "Guide Registration". The window's content area has a dark, grayscale background featuring a photograph of a large, ornate building with many windows. Overlaid on this background is a registration form. The form consists of several labeled input fields: "Name:" with a single-line text box; "Gender:" with two radio button options, "Male" and "Female"; "Date of Birth:" with a single-line text box; "Contact Number:" with a single-line text box; "Nationality:" with a single-line text box; "User Name:" with a single-line text box; and "Create Password:" with a single-line text box. Below these fields is a "Submit" button. To the left of the main form, there is a "Back" button. The browser window's title bar shows standard Windows window controls (minimize, maximize, close). At the bottom of the screen is the Windows taskbar. It includes the Start button, a search bar with the text "Search", and a row of application icons: File Explorer, Microsoft Edge, Google Chrome, Firefox, WhatsApp, and several other icons. On the right side of the taskbar, there are system tray icons for network, volume, and battery, along with the system clock showing "22:53" and the date "25-11-2023".

4.4 LOGIN PAGE



Windows desktop environment showing a "Login page" window.

The window title bar displays "Login page".

The login form contains the following elements:

- User name:** A text input field.
- Password:** A text input field.
- Student** (checkbox)
- Guide** (checkbox)
- Login** button
- Back** button (located in the bottom-left corner of the window)

The Windows taskbar is visible at the bottom, showing the Start button, several pinned application icons, and the system tray with the date and time.

4.5 DASHBOARD

Dash Board

Sno	Name	Gender	DOB	contact	Nationality
1	Kiruthik	male	07/10/2004	9342929505	Indian
2	Joel	male	29/03/2005	8778728680	Indian
3	Jeyanth	male	07/09/2003	9342929505	Indian
4	Jayen Senthik...	male	01/06/2004	6382225377	Indian
5	KEERTHIVASAN	male	24/06/2005	9080726723	Indian
6	kavin	male	24/09/2004	9345776153	Indian
7	Dhoni	male	07/07/1981	8056240206	Indian
8	Kavibalan P	male	11/02/2005	6369473967	Indian
9	Kharthik J	male	07/06/2005	7338897614	Indian
10	Hareesh S S	male	02/03/2005	8610236842	Indian
11	Jayakanth S	male	06/03/2005	6379793645	Indian
12	Gopikrishnan R	male	26/04/2004	9344267626	Indian
13	B.Kailaash	male	10/09/2004	9994033725	Indian
14	Jaganaath	male	12/08/2003	9344882530	Indian
15	Dishanth	male	05/11/2004	9597890760	Indian

back

Update data

Remove Student

4.6 UPDATE DATA OPERATION

update data

Row Sno:

column name:

Correction:

Submit

4.7 REMOVE STUDENT OPERATION

Remove Student

Enter Sno:

Enter

CONCLUSION

With the help of our project, Users can engage in Coding Assignments after which they can view the results on the leaderboard, which leads to the consistent and determination of Users in their Journey.

REFERENCES

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2. <https://www.wikipedia.org/>
3. <https://www.w3schools.com/sql/>
4. [SQL | Codecademy](#)