

Object Oriented Programming <u>Lab Assignment 3</u>

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Project:

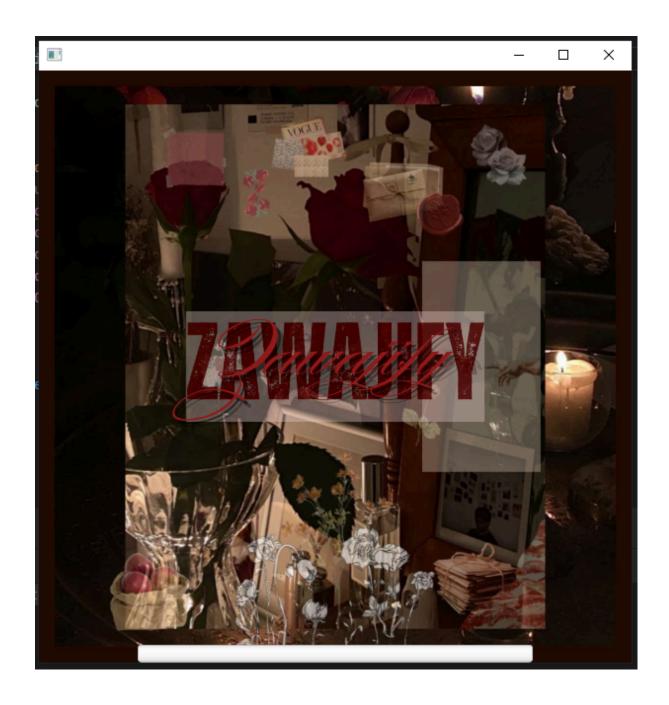
Marriage Application (Partially Completed)

Overview:

The application works in the following sequence. It has the following screens.

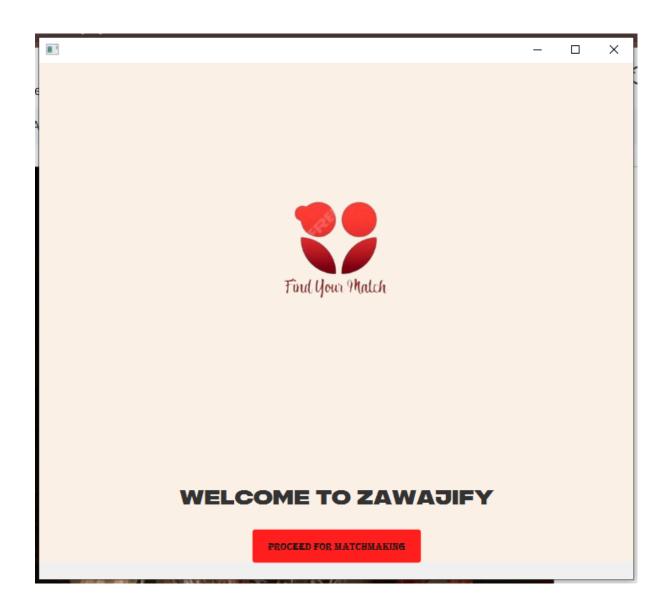
Screen no.1:

This screen stays for a few seconds for as long as the progress bar loads.



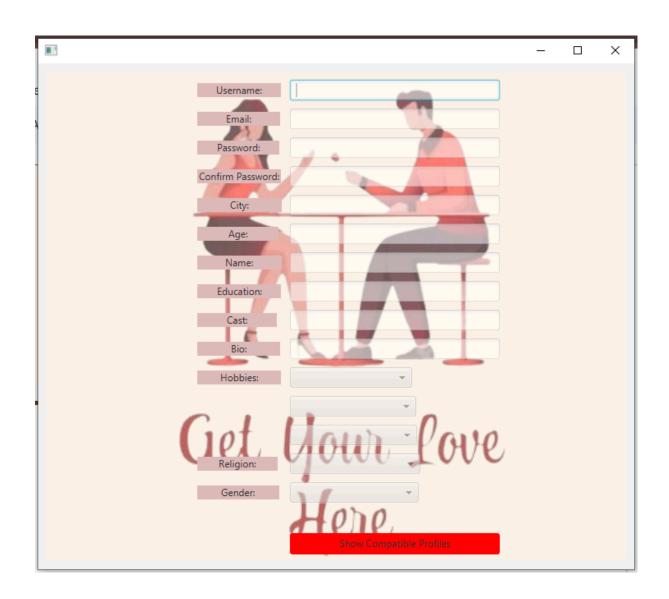
Screen no.2:

This screen has one button that takes you to the next screen when clicked upon.



Screen no.3:

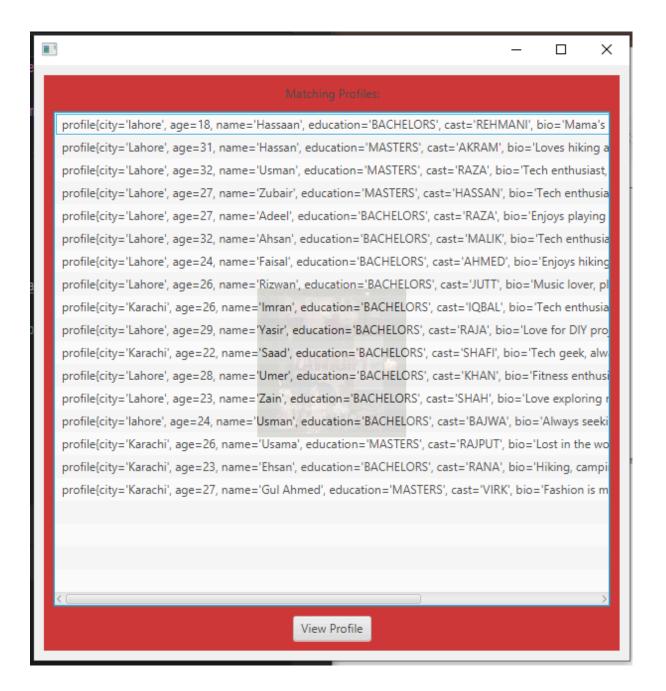
This screen shows a menu with text input boxes. It allows the user to add their data in them with certain conditions e.g. using special characters in password, etc.





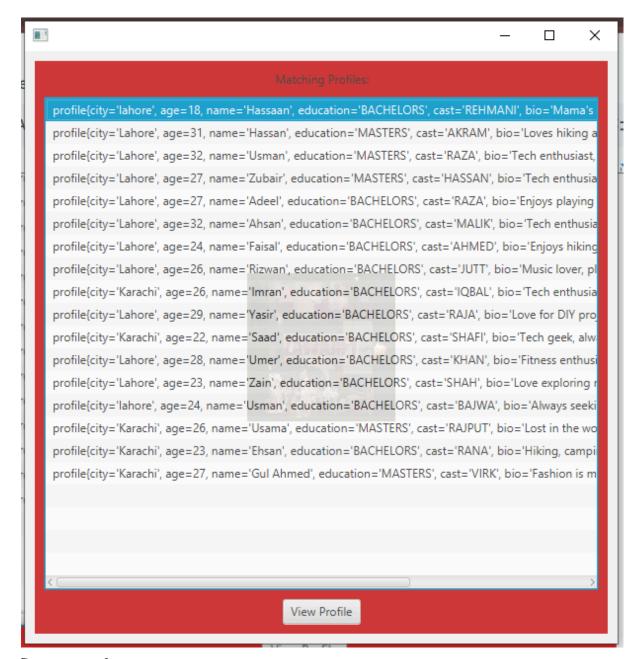
Screen no.4:

When clicked on the button 'Show Compatible Profiles', it shows a list of profiles that match with the details added.



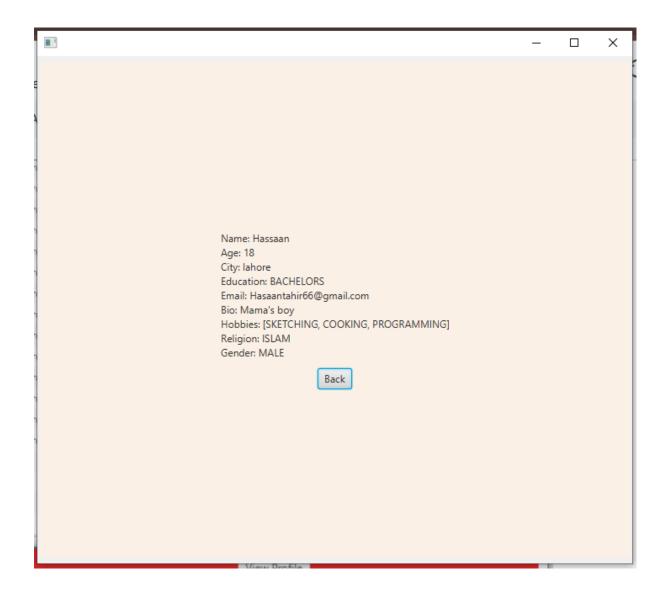
Screen no.5:

When clicked on any profile, you can view it by then clicking on the 'View Profile' button.



Screen no. 6:

The profile details are shown. The back button takes you back to the previous screen of the list of profiles.



Code and functioning of the Screens:

Following are the code snippets and functioning of the screens.

HelloApplication Class:

This class basically starts the program and sets the stage of the application.

```
package com.example.connect;

import ...

public class HelloApplication extends Application {
    private Stage primaryStage; no usages
    private Scene startupScene, intermediateScene, signupScene, matchingProfilesScene, detailedProfileScene; no usages
    private ArrayList<Profile> profiles; no usages

@Override
    public void start(Stage stage) throws IOException {
        try {
            FXMLLoader loader = new FXMLLoader(HelloApplication.class.getResource( name: "startupScene.fxml"));
            Scene scene = new Scene(loader.load());
            stage.setScene(scene);
            stage.show();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }

public static void main(String[] args) { | launch(args); | }
}
```

IntermediateController Class:

This class creates a link between the GUI and the functioning code. It loads the FXML files from the code and also inputs the font used in the application.

```
public class intermediateController {

@FXML
private Label welcomeLabel; // Add this declaration to link to the FXML's fx:id

@FXML
void handleProceed(ActionEvent event) {

try {

FXMLLoader loader = new FXMLLoader(getClass().getResource( name: "signupScene.fxml"));

Parent root = loader.load();

Stage stage = (Stage) ((Node) event.getSource()).getScene().getWindow();

stage.setScene(new Scene(root));

stage.setScene(new Scene(root));

} catch (IOException e) {

e.printStackTrace();
}
}

public void initialize() {

// Load the Riffton font
Font rifftonFont = Font.loadFont(getClass().getResourceAsStream( name: "/com/example/connect/rifton-regular.otf"), ve 24);

if (rifftonFont != notl.) {

welcomeLabel.setFont(rifftonFont); // Apply the font
} else {

System.out.println("Font could not be loaded!");
}

}
```

SignupUser Class:

Takes input from the user.

```
public class Signup_user {

private static String city; 2usages

private static int age; 2usages

private static String name; 2usages

private static String education; 2usages

private static String cast; 2usages

private static String bio; 2usages

private static ArrayList<Hobbies> hobby = new ArrayList

private static Religion religion; 2usages

private static Gender gender; 2usages

private static int userId; 2usages

private static String username; 2usages

private static String email; 2usages

private static String email; 2usages

private static String password; 2usages
```

SignController Class:

Stores data.

```
public class SignController {
    void handleSignup(ActionEvent event) {

    // Create a profile for the student
    p1 = new Profile(
        Signup_user.getUsername(), Signup_user.getEmail(), Signup_user.getPassword(),
        Signup_user.getCity(), Signup_user.getAge(), Signup_user.getName(),
        Signup_user.getEducation(), Signup_user.getCast(), Signup_user.getBio(),
        Signup_user.getHobby(), Signup_user.getReligion(), Signup_user.getGender()
    );
```

Match Class:

Checks for matches.

FXML Files:

They run the gui.