Colonel Bytes

Muhammad Hassaan Tahir

FA23-BCS-117

Muhammad Haris Bhatti

FA23-BCS-113

Muhammad Saim

FA23-BCS-152

Lailmah Bukhari

FA23-BCS-076

***User Class :***

package com.example.connect;  
import java.util.Scanner;  
public class User {  
 private int userId;  
 private String username;  
 private String email;  
 private String password;  
  
 private static int nextId = 1;  
  
 Scanner input = new Scanner(System.in);  
  
 public User(String username, String email, String password) {  
 setUsername(username);  
 setEmail(email);  
 setPassword(password);  
 this.userId=nextId;  
 nextId++;  
 }  
 public User()  
 {  
 signup();  
 }  
  
  
  
 public int getUserId() {  
 return userId;  
 }  
  
 public void setUserId(int userId) {  
 this.userId = userId;  
 }  
  
 public String getUsername() {  
 return username;  
 }  
  
 public void setUsername(String username) {  
 boolean flag;  
 do {  
 flag = true;  
  
  
 if (containsSpecialCharacters(username)) {  
 flag = false;  
 System.out.println("Username should not contain special character other than '\_' \nEnter the username again : ");  
 username = input.nextLine();  
 }  
  
 } while (flag == false);  
  
  
 this.username = username;  
 }  
  
  
 public String getEmail() {  
 return email+"@gmail.com";  
 }  
  
 public void setEmail(String email) {  
 String[] parts = email.split("@");  
 *// Check if the part after "@" is equal to "@gmail.com"* if (parts.length == 2 && parts[1].equals("gmail.com")) {  
 this.email = email; *// Set the email if it's valid* } else {  
 *// If the part after "@" is not equal to "@gmail.com",  
 // append "@gmail.com" to the part before "@" and set the email* this.email = parts[0] + "@gmail.com";  
 System.out.println("Invalid domain. Appended '@gmail.com'.");  
 }  
 }  
  
 public String getPassword() {  
  
 return password;  
 }  
  
  
 public void signup () {  
 System.out.println("Enter the unique username ");  
 setUsername(input.nextLine());  
 System.out.println("Enter a password which contains a letter ,a special character and a number :");  
 setPassword(input.nextLine());  
 System.out.println("Enter your email : \_\_\_\_\_\_\_\_\_\_\_\_@gmail.com");  
 setEmail(input.nextLine());  
  
 }  
  
 public void setPassword(String password) {  
 while (true) {  
 if (containsLetters(password) && containsNumbers(password) && containsSpecialCharacters(password)) {  
 this.password = password;  
 break; *// Exit the loop if all criteria are met* } else {  
 System.out.println("Password does not meet all criteria.");  
 if (!containsLetters(password)) {  
 System.out.println("Password must contain a letter.");  
 }  
 if (!containsNumbers(password)) {  
 System.out.println("Password must contain a number.");  
 }  
 if (!containsSpecialCharacters(password)) {  
 System.out.println("Password must contain a special character.");  
 }  
 System.out.println("Enter a stronger password:");  
 password = input.nextLine(); *// Update password variable with new input* }  
 }  
 }  
  
 public static boolean containsLetters(String password) {  
 for (char ch : password.toCharArray()) {  
 if (Character.isLetter(ch)) {  
 return true;  
 }  
 }  
 return false;  
 }  
  
 public static boolean containsNumbers(String password) {  
 for (char ch : password.toCharArray()) {  
 if (Character.isDigit(ch)) {  
 return true;  
 }  
 }  
 return false;  
 }  
  
 public static boolean containsSpecialCharacters(String password) {  
 String specialCharacters = "!@#$%^&\*()-=+";  
 for (char ch : password.toCharArray()) {  
 if (specialCharacters.contains(String.valueOf(ch))) {  
 return true;  
 }  
 }  
 return false;  
 }  
}

***Profile Class :***

package com.example.connect;  
  
import java.util.ArrayList;  
import java.util.Scanner;  
import java.util.\*;  
  
public class Profile {  
 private String city;  
 private int age;  
 private String name;  
 private String education;  
 private String cast;  
 private String bio;  
 private ArrayList<Hobbies> hobby = new ArrayList<Hobbies>();  
 private Religion religion;  
 private Gender gender;  
 Scanner input = new Scanner(System.*in*);  
 User user;  
  
 public Profile()*//for user profile* {  
 user = new User();  
 setProfile();  
  
 }  
  
 public Profile(String username, String email, String password,String city, int age, String name, String education, String cast, String bio, ArrayList<Hobbies> hobby, Religion religion, Gender gender) {  
 user=new User(username,email,password);  
 setAge(age);  
 setCity(city);  
 setBio(bio);  
 setCast(cast);  
 setEducation(education);  
 setName(name);  
 this.hobby.addAll(hobby);  
 setReligion(religion);  
 setGender(gender);  
 }  
  
 *//for hard coded profiles* public ArrayList<Hobbies> getHobby() {  
 return hobby;  
 }  
  
 private Set<Hobbies> selectedHobbies = new HashSet<>();  
  
  
  
 public void setHobby() {  
  
 System.*out*.println("Select 3 hobbies: ");  
 displayhobbies();  
 for (int i = 0; i < 3; i++) {  
 System.*out*.println("Enter hobby " + (i + 1) + ": ");  
 String h = input.nextLine();  
 try {  
 Hobbies hobby = Hobbies.*valueOf*(h.toUpperCase());  
 if (!selectedHobbies.contains(hobby)) {  
 selectedHobbies.add(hobby);  
 } else {  
 System.*out*.println("This hobby is already selected. Please choose another one.");  
 i--; *// Decrement i to re-prompt for the same index* }  
 }catch(IllegalArgumentException exp){  
 System.*out*.println(exp.getMessage());  
 }  
  
  
 }  
 }  
  
 public Religion getReligion() {  
 return religion;  
 }  
  
 public void setReligion(Religion religions)  
 {  
  
 this.religion = religions;  
 }  
  
 public Gender getGender() {  
 return gender;  
 }  
  
 public void setGender(Gender gender)  
 {  
  
 this.gender = gender;  
 }  
  
 public Scanner getInput() {  
 return input;  
 }  
  
 public void setInput(Scanner input) {  
 this.input = input;  
 }  
  
  
 public String getCity() {  
 return city;  
 }  
  
 public void setCity(String city) {  
 this.city = city;  
 }  
  
 public int getAge() {  
 return age;  
 }  
  
 public void setAge(int age) throws AgeInvalidException  
 {  
 if (age < 18)  
 {  
 throw new AgeInvalidException();  
  
 }  
 this.age = age;  
 }  
  
 public String getName() {  
 return name;  
 }  
  
 public void setName(String name) {  
 this.name = name;  
 }  
  
 public String getEducation() {  
 return education;  
 }  
  
 public void setEducation(String education) {  
 this.education = education.toUpperCase();  
 }  
  
 public String getCast() {  
 return cast;  
 }  
  
 public void setCast(String cast) {  
 this.cast = cast.toUpperCase();  
 }  
  
 public String getBio() {  
 return bio;  
 }  
  
 public void setBio(String bio) {  
 this.bio = bio;  
 }  
  
 @Override  
 public String toString() {  
 return "profile{" +  
 "city='" + city + '\'' +  
 ", age=" + age +  
 ", name='" + name + '\'' +  
 ", education='" + education + '\'' +  
 ", cast='" + cast + '\'' +  
 ", bio='" + bio + '\'' +  
 '}';  
 }  
 public void setProfile() {  
 System.*out*.println("Enter Name : ");  
 setName(input.nextLine());  
 System.*out*.println("Enter city : ");  
 setCity(input.nextLine());  
 while (true) {  
 try {  
 System.*out*.println("Enter Age (required age 18): ");  
 int age = input.nextInt();  
 setAge(age);  
 break;  
 } catch (AgeInvalidException | InputMismatchException exp) {  
 System.*out*.println(exp.getMessage());  
 input.nextLine(); *// Clear the input buffer* }  
 }  
 System.*out*.println("Enter Cast : ");  
 input.nextLine();  
 setCast(input.nextLine());  
 System.*out*.println("Enter Education : ");  
 setEducation(input.nextLine());  
 System.*out*.println("Enter Bio : ");  
 setBio(input.nextLine());  
 while(true) {  
 try {  
 System.*out*.println("Select one of the following gender : ");  
 displayGender();  
 System.*out*.println(" Enter your selection : ");  
 String g = input.nextLine();  
 setGender(Gender.*valueOf*(g.toUpperCase()));  
 break;  
 } catch (IllegalArgumentException exp) {  
 System.*out*.println(exp.getMessage());  
 }  
 }  
 while(true) {  
 try {  
 System.*out*.println("Select one of the Religions : ");  
 displayReligion();  
 System.*out*.println("Enter your selection : ");  
 String r = input.nextLine();  
 setReligion(Religion.*valueOf*(r.toUpperCase()));  
 break;  
 } catch (IllegalArgumentException exp) {  
 System.*out*.println(exp.getMessage());  
 }  
 }  
 while(true) {  
 try {  
 setHobby();  
 break;  
 } catch (IllegalArgumentException exp) {  
 System.*out*.println(exp.getMessage());  
 }  
 }  
 }  
 public void show\_short\_profile()  
 {  
 System.*out*.println("Name : "+getName());  
  
 }  
  
 *//display methods for enums* public void displayhobbies()  
 {  
 for (Hobbies h : Hobbies.*values*()) {  
 System.*out*.println(h);  
 }  
 }  
  
 public void displayReligion(){  
 for(Religion r : Religion.*values*()){  
 System.*out*.println(r);  
 }  
 }  
  
 public void displayGender(){  
 for(Gender g : Gender.*values*()){  
 System.*out*.println(g);  
 }  
 }  
  
 *//profile display methods* public void displayLessProfile(){  
 System.*out*.println("Id : "+user.getUserId());  
 System.*out*.println("Name : "+getName());  
 System.*out*.println("Age : "+getAge()); *//less* System.*out*.println("Gender : "+getGender());  
 System.*out*.println("Bio : "+getBio());  
 }  
  
 public String displayCompleteProfile(){  
 displayLessProfile();  
 return "Id : "+user.getUserId()+"Cast : "+getCast()+ "\n City : "+getCity()+"\n Education : "+getEducation()+"\nReligion : "+getReligion()+"\nHobby : "+getHobby();  
 }  
}

***Match Class :***

package com.example.connect;  
  
import javafx.event.ActionEvent;  
import javafx.fxml.FXML;  
import javafx.fxml.FXMLLoader;  
import javafx.scene.Node;  
import javafx.scene.Parent;  
import javafx.scene.Scene;  
import javafx.scene.control.Label;  
import javafx.stage.Stage;  
  
import java.io.IOException;  
import java.util.ArrayList;  
import java.util.List;  
  
public class Match {  
 private int[] compatibility; *// religion=50, cast=20, city=5, age difference=5, hobbies=15* public Match(ArrayList<Profile> profiles, Profile p1) {  
 compatibility = new int[profiles.size()];  
 matchHobbies(profiles, p1);  
 matchCast(profiles, p1);  
 matchCity(profiles, p1);  
 matchAgeDifference(profiles, p1);  
 matchReligion(profiles, p1);  
 }  
  
 public void matchHobbies(ArrayList<Profile> profiles, Profile p1) {  
 for (int i = 0; i < profiles.size(); i++) {  
 Profile p = profiles.get(i);  
 for (Hobbies hobby : p1.getHobby()) {  
 if (p.getHobby().contains(hobby)) {  
 compatibility[i] += 5;  
 break; *// Break the loop once a match is found to avoid duplicate increments* }  
 }  
 }  
 }  
  
 public void matchReligion(ArrayList<Profile> profiles, Profile p1) {  
 for (int i = 0; i < profiles.size(); i++) {  
 Profile p = profiles.get(i);  
 if (p.getReligion().equals(p1.getReligion())) {  
 compatibility[i] += 50;  
 }  
 }  
 }  
  
 public void matchCast(ArrayList<Profile> profiles, Profile p1) {  
 for (int i = 0; i < profiles.size(); i++) {  
 Profile p = profiles.get(i);  
 if (p.getCast().equals(p1.getCast())) {  
 compatibility[i] += 20;  
 }  
 }  
 }  
  
 public void matchCity(ArrayList<Profile> profiles, Profile p1) {  
 for (int i = 0; i < profiles.size(); i++) {  
 Profile p = profiles.get(i);  
 if (p.getCity().equals(p1.getCity())) {  
 compatibility[i] += 5;  
 }  
 }  
 }  
  
 public void matchAgeDifference(ArrayList<Profile> profiles, Profile p1) {  
 for (int i = 0; i < profiles.size(); i++) {  
 Profile p = profiles.get(i);  
 if (Math.*abs*(p.getAge() - p1.getAge()) <= 5) {  
 compatibility[i] += 5;  
 }  
 }  
 }  
  
 public List<Profile> compatibleProfiles(ArrayList<Profile> profiles, Profile p1) {  
 ArrayList<Profile> compatible = new ArrayList<>();  
 for (int i = 0; i < compatibility.length; i++) {  
 if (compatibility[i] > 50 && !profiles.get(i).getGender().equals(p1.getGender())) {  
 compatible.add(profiles.get(i));  
 }  
 }  
 return compatible;  
 }  
  
 public static class StartupController {  
  
 @FXML  
 private Label startupLabel;  
  
 @FXML  
 void switchToSignUp(ActionEvent event) {  
 try {  
 FXMLLoader loader = new FXMLLoader(getClass().getResource("signupScene.fxml"));  
 Parent root = loader.load();  
 Stage stage = (Stage) ((Node) event.getSource()).getScene().getWindow();  
 stage.setScene(new Scene(root));  
 stage.show();  
 } catch (IOException e) {  
 e.printStackTrace();  
 }  
 }  
 }  
}

# Signup class :

package com.example.connect;  
  
import java.util.ArrayList;  
  
public class Signup\_user {  
 private static String *city*;  
 private static int *age*;  
 private static String *name*;  
 private static String *education*;  
 private static String *cast*;  
 private static String *bio*;  
 private static ArrayList<Hobbies> *hobby* = new ArrayList<Hobbies>();  
 private static Religion *religion*;  
 private static Gender *gender*;  
 private static int *userId*;  
 private static String *username*;  
 private static String *email*;  
 private static String *password*;  
  
 public static String getConfirmpassword() {  
 return *confirmpassword*;  
 }  
  
 public static void setConfirmpassword(String confirmpassword) {  
 Signup\_user.*confirmpassword* = confirmpassword;  
 }  
  
 private static String *confirmpassword*;  
  
 public static int getUserId() {  
 return *userId*;  
 }  
  
 public static void setUserId(int userId) {  
 Signup\_user.*userId* = userId;  
 }  
  
 public static String getUsername() {  
 return *username*;  
 }  
  
 public static void setUsername(String username) {  
 Signup\_user.*username* = username;  
 }  
  
 public static String getEmail() {  
 return *email*;  
 }  
  
 public static void setEmail(String email) {  
 Signup\_user.*email* = email;  
 }  
  
 public static String getPassword() {  
 return *password*;  
 }  
  
 public static void setPassword(String password) {  
 Signup\_user.*password* = password;  
 }  
  
 public static String getCity() {  
 return *city*;  
 }  
  
 public static void setCity(String city) {  
 Signup\_user.*city* = city;  
 }  
  
 public static int getAge() {  
 return *age*;  
 }  
  
 public static void setAge(int age) {  
 Signup\_user.*age* = age;  
 }  
  
 public static String getName() {  
 return *name*;  
 }  
  
 public static void setName(String name) {  
 Signup\_user.*name* = name;  
 }  
  
 public static String getEducation() {  
 return *education*;  
 }  
  
 public static void setEducation(String education) {  
 Signup\_user.*education* = education;  
 }  
  
 public static String getCast() {  
 return *cast*;  
 }  
  
 public static void setCast(String cast) {  
 Signup\_user.*cast* = cast;  
 }  
  
 public static String getBio() {  
 return *bio*;  
 }  
  
 public static void setBio(String bio) {  
 Signup\_user.*bio* = bio;  
 }  
  
 public static ArrayList<Hobbies> getHobby() {  
 return *hobby*;  
 }  
  
 public static void setHobby(ArrayList<Hobbies> hobby) {  
 Signup\_user.*hobby* = hobby;  
 }  
  
 public static Religion getReligion() {  
 return *religion*;  
 }  
  
 public static void setReligion(Religion religion) {  
 Signup\_user.*religion* = religion;  
 }  
  
 public static Gender getGender() {  
 return *gender*;  
 }  
  
 public static void setGender(Gender gender) {  
 Signup\_user.*gender* = gender;  
 }  
  
  
}

# Hard Coded profiles Class :

package com.example.connect;  
  
import java.util.ArrayList;  
public class HardCodedProfiles {  
 static ArrayList<Profile> *profiles* = new ArrayList<>();  
  
 public static ArrayList<Profile> hardCodedProfiles() {  
  
 Profile p1=new Profile("Harisbhatti01","hm26284205@gmail.com","Haris@999","lahore",20,"Haris","Bachelors","Bhatti","yet to be seen",new ArrayList<Hobbies> (){{  
 add(Hobbies.*SINGING*);  
 add(Hobbies.*GUITAR*);  
 add(Hobbies.*COOKING*);}},Religion.*ISLAM*,Gender.*MALE*);  
 Profile p2=new Profile("tahirkaboy","Hasaantahir66@gmail.com","Tahir@77","lahore",18,"Hassaan","Bachelors","Rehmani","Mama's boy",new ArrayList<Hobbies> (){{  
 add(Hobbies.*SKETCHING*);  
 add(Hobbies.*COOKING*);  
 add(Hobbies.*PROGRAMMING*);}},Religion.*ISLAM*,Gender.*MALE*);  
 Profile p3=new Profile("SaimSaeed5","SaimSheikh07@gmail.com","Comsats@67","lahore",19,"saim","Bachelors","Sheikh","Foodie",new ArrayList<Hobbies> (){{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*DANCE*);  
 add(Hobbies.*GAMING*);}},Religion.*ISLAM*,Gender.*MALE*);  
 Profile p4=new Profile("Ayesha99", "sassygal123", "love4@life", "lahore", 25, "Ayesha", "Bachelors", "Khokhar", "I love adventure and trying new foods",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 add(Hobbies.*READING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p5=new Profile("AbdullahSheikh", "techgeek", "coding@123", "lahore", 28, "Abdullah", "Masters", "Sheikh", "Passionate about technology and innovation",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*READING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p6=new Profile("Sophia77", "melodymaker", "music@123", "Karachi", 22, "Sophia", "Bachelors", "Jutt","Music is life, love concerts and jamming sessions",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SINGING*);  
 add(Hobbies.*GUITAR*);  
 add(Hobbies.*DANCE*);  
 }}, Religion.*BUDDHISM*, Gender.*FEMALE*);  
  
 Profile p7=new Profile("Mahmood123", "sportsguru", "gameon@123", "lahore", 27, "Mahmood", "Masters", "Malik", "Athletic and competitive, love all sports",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*BINGE\_WATCHING*);  
 add(Hobbies.*COOKING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p8=new Profile("IsmailButt", "artsy", "painter@123", "lahore", 30, "Ismail", "Masters", "Butt", "Expressing emotions through art, passionate about painting",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 add(Hobbies.*READING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p9=new Profile("Bajwa88", "adventurelover", "explore@123", "lahore", 24, "Usman", "Bachelors", "Bajwa", "Always seeking new adventures and challenges",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*READING*);  
 add(Hobbies.*BINGE\_WATCHING*);  
 add(Hobbies.*PHOTOGRAPHY*); }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p10=new Profile("UsamaBhatti9", "booklover", "novels@123", "Karachi", 26, "Usama", "Masters", "Rajput", "Lost in the world of books, avid reader and literature enthusiast",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*READING*);  
 add(Hobbies.*WRITING*);  
 add(Hobbies.*COOKING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
 Profile p11=new Profile("Javeria489", "foodlover", "foodie@123", "Islamabad", 29, "Javeria", "Bachelors", "Qureshi", "Passionate about food, love trying new cuisines",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*COOKING*);  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*DIYS*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p12=new Profile("HaseebKhokhar4", "traveler", "travel&123", "Islamabad", 32, "Haseeb", "Masters", "Bhukhari", "Wanderlust, love exploring new cultures and destinations",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*CHESS*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 add(Hobbies.*DIYS*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
  
 Profile p13=new Profile("Rana777", "naturelover", "nature@123", "Karachi", 23, "Ehsan", "Bachelors", "Rana", "Hiking, camping, and stargazing enthusiast",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*CHESS*);  
 add(Hobbies.*BINGE\_WATCHING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p14=new Profile("Laiba88", "fitguru", "fitness@123", "Karachi", 28, "Laiba", "Bachelors", "Arain", "Dedicated to fitness and living a healthy lifestyle",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*SKETCHING*);  
 add(Hobbies.*DIYS*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p15=new Profile("Abbas78", "animallover", "pets@123", "Islamabad", 31, "Abbas", "Masters", "Rana", "Passionate about animals, advocate for animal rights",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 add(Hobbies.*WOOD\_CRAFT*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p16=new Profile("GulAhmed8", "fashionlover", "style@123", "Karachi", 27, "Gul Ahmed", "Masters", "Virk", "Fashion is my passion, love styling and creating new looks",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 add(Hobbies.*WOOD\_CRAFT*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
 Profile p17=new Profile("RidaBhatti9", "naturelover", "explore@123", "Islamabad", 29, "Rida", "Masters", "Bhatti", "Passionate about nature and wildlife conservation",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*COOKING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 add(Hobbies.*SINGING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p18=new Profile("Yaqoob8", "techwizard", "tech@128", "Islamabad", 31, "Yaqoob", "Masters", "Muhammadi", "Technology enthusiast, love coding and exploring new tech gadgets",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p19=new Profile("Shenazkhan1", "fitguru", "fitnes@123", " Karachi", 26, "Shenaz", "Bachelors", "Khan", "Dedicated to fitness and well-being, enjoy yoga and outdoor workouts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*CHESS*);  
 add(Hobbies.*SEWING*);  
 add(Hobbies.*COOKING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p20=new Profile("Dawood1", "animallover", "love@134", "Karachi", 34, "Dawood", "Masters", "Mochi", "Passionate about animal welfare and rescue missions",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SINGING*);  
 add(Hobbies.*COOKING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*,Gender.*MALE*);  
 Profile p21 = new Profile("ZainShah1", "zainshah1@gmail.com", "Zain@1234", "Lahore", 23, "Zain", "Bachelors", "Shah", "Love exploring new technologies and gadgets",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p22 = new Profile("MariaJutt2", "mariajutt2@gmail.com", "Maria@5678", "Karachi", 24, "Maria", "Masters", "Jutt", "Passionate about arts and crafts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*SKETCHING*);  
 add(Hobbies.*SEWING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p23 = new Profile("AhmedRaja3", "ahmedraja3@gmail.com", "Ahmed@9101", "Islamabad", 26, "Ahmed", "Bachelors", "Raja", "Sports enthusiast, love playing football",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*BINGE\_WATCHING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p24 = new Profile("SaraAli4", "saraali4@gmail.com", "Sara@1122", "Lahore", 27, "Sara", "Masters", "Ali", "Avid reader and writer",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*READING*);  
 add(Hobbies.*WRITING*);  
 add(Hobbies.*COOKING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p25 = new Profile("UsmanKhan5", "usmankhan5@gmail.com", "Usman@3344", "Karachi", 25, "Usman", "Bachelors", "Khan", "Fitness freak, love to stay in shape",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*DIYS*);  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*COOKING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p26 = new Profile("AminaShafi6", "aminashafi6@gmail.com", "Amina@5566", "Islamabad", 28, "Amina", "Masters", "Shafi", "Baking and trying new recipes",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*COOKING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p27 = new Profile("HassanIqbal7", "hassaniqbal7@gmail.com", "Hassan@7788", "Lahore", 29, "Hassan", "Bachelors", "Iqbal", "Music lover, play guitar and sing",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*GUITAR*);  
 add(Hobbies.*SINGING*);  
 add(Hobbies.*DANCE*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p28 = new Profile("NidaKhan8", "nidakhan8@gmail.com", "Nida@9900", "Karachi", 30, "Nida", "Masters", "Khan", "Love to travel and explore new places",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*WOOD\_CRAFT*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 add(Hobbies.*BAKING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p29 = new Profile("AliButt9", "alibutt9@gmail.com", "Ali@1234", "Islamabad", 22, "Ali", "Bachelors", "Butt", "Chess player, enjoy strategic games",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*CHESS*);  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p30 = new Profile("SanaSheikh10", "sanasheikh10@gmail.com", "Sana@5678", "Lahore", 31, "Sana", "Masters", "Sheikh", "Fashion enthusiast, love designing clothes",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SEWING*);  
 add(Hobbies.*SHOPPING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p31 = new Profile("BilalJutt11", "bilaljutt11@gmail.com", "Bilal@9101", "Karachi", 21, "Bilal", "Bachelors", "Jutt", "Enjoy playing and watching sports",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 add(Hobbies.*COOKING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p32 = new Profile("AmnaRana12", "amnarana12@gmail.com", "Amna@1122", "Islamabad", 26, "Amna", "Masters", "Rana", "Love DIY projects and home decor",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*DIYS*);  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p33 = new Profile("KashifAli13", "kashifali13@gmail.com", "Kashif@3344", "Lahore", 23, "Kashif", "Bachelors", "Ali", "Tech enthusiast, always up for new gadgets",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p34 = new Profile("FatimaShah14", "fatimashah14@gmail.com", "Fatima@5566", "Karachi", 25, "Fatima", "Masters", "Shah", "Cooking and trying new cuisines",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*COOKING*);  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*SKETCHING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p35 = new Profile("ZubairIqbal15", "zubairiqbal15@gmail.com", "Zubair@7788", "Islamabad", 29, "Zubair", "Bachelors", "Iqbal", "Fitness enthusiast, enjoy gym workouts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*DIYS*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p36 = new Profile("ZaraKhan16", "zarakhan16@gmail.com", "Zara@9900", "Lahore", 27, "Zara", "Masters", "Khan", "Love singing and dancing",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SINGING*);  
 add(Hobbies.*DANCE*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p37 = new Profile("HamzaButt17", "hamzabutt17@gmail.com", "Hamza@1234", "Karachi", 28, "Hamza", "Bachelors", "Butt", "Passionate about cars and racing",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 add(Hobbies.*GAMING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p38 = new Profile("SadiaAli18", "sadiaali18@gmail.com", "Sadia@5678", "Islamabad", 24, "Sadia", "Masters", "Ali", "Photography and capturing moments",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PHOTOGRAPHY*);  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*SKETCHING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p39 = new Profile("TariqShafi19", "tariqshafi19@gmail.com", "Tariq@9101", "Lahore", 32, "Tariq", "Bachelors", "Shafi", "Tech enthusiast, love coding",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*BINGE\_WATCHING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p40 = new Profile("NaziaRaja20", "naziaraja20@gmail.com", "Nazia@1122", "Karachi", 30, "Nazia", "Masters", "Raja", "Cooking and experimenting with recipes",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*COOKING*);  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
 Profile p41 = new Profile("FaisalAhmed1", "faisalahmed1@gmail.com", "Faisal@1234", "Lahore", 24, "Faisal", "Bachelors", "Ahmed", "Enjoys hiking and outdoor activities",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 add(Hobbies.*BAKING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p42 = new Profile("AsmaIqbal2", "asmaiqbal2@gmail.com", "Asma@5678", "Karachi", 27, "Asma", "Masters", "Iqbal", "Loves reading novels and writing short stories",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*READING*);  
 add(Hobbies.*WRITING*);  
 add(Hobbies.*SKETCHING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p43 = new Profile("NadeemShah3", "nadeemshah3@gmail.com", "Nadeem@9101", "Islamabad", 29, "Nadeem", "Bachelors", "Shah", "Tech geek, always up for new gadgets",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p44 = new Profile("SairaAli4", "sairaali4@gmail.com", "Saira@1122", "Lahore", 25, "Saira", "Masters", "Ali", "Avid traveler, loves exploring new cultures",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*DIYS*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 add(Hobbies.*BAKING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p45 = new Profile("FarhanKhan5", "farhankhan5@gmail.com", "Farhan@3344", "Karachi", 31, "Farhan", "Bachelors", "Khan", "Fitness enthusiast, enjoys gym workouts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*DIYS*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p46 = new Profile("NidaSheikh6", "nidasheikh6@gmail.com", "Nida@5566", "Islamabad", 28, "Nida", "Masters", "Sheikh", "Love for painting and arts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*SKETCHING*);  
 add(Hobbies.*SEWING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p47 = new Profile("RizwanJutt7", "rizwanjutt7@gmail.com", "Rizwan@7788", "Lahore", 26, "Rizwan", "Bachelors", "Jutt", "Music lover, plays guitar and sings",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*GUITAR*);  
 add(Hobbies.*SINGING*);  
 add(Hobbies.*DANCE*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p48 = new Profile("AishaAli8", "aishaali8@gmail.com", "Aisha@9900", "Karachi", 22, "Aisha", "Masters", "Ali", "Photography and capturing moments",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PHOTOGRAPHY*);  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*SKETCHING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p49 = new Profile("ZahidButt9", "zahidbutt9@gmail.com", "Zahid@1234", "Islamabad", 33, "Zahid", "Bachelors", "Butt", "Enjoys reading and writing tech blogs",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*READING*);  
 add(Hobbies.*WRITING*);  
 add(Hobbies.*PROGRAMMING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p50 = new Profile("HinaShafi10", "hinashafi10@gmail.com", "Hina@5678", "Lahore", 24, "Hina", "Masters", "Shafi", "Passionate about baking and cooking",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*COOKING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p51 = new Profile("ImranIqbal11", "imraniqbal11@gmail.com", "Imran@9101", "Karachi", 26, "Imran", "Bachelors", "Iqbal", "Tech enthusiast, love exploring new technologies",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p52 = new Profile("KiranKhan12", "kirankhan12@gmail.com", "Kiran@1122", "Islamabad", 27, "Kiran", "Masters", "Khan", "Nature lover, enjoys hiking and outdoor activities",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 add(Hobbies.*BAKING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p53 = new Profile("YasirRaja13", "yasirraja13@gmail.com", "Yasir@3344", "Lahore", 29, "Yasir", "Bachelors", "Raja", "Love for DIY projects and home decor",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*DIYS*);  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p54 = new Profile("MariamShah14", "mariamshah14@gmail.com", "Mariam@5566", "Karachi", 25, "Mariam", "Masters", "Shah", "Passionate about arts and crafts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*SKETCHING*);  
 add(Hobbies.*SEWING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p55 = new Profile("ZainAli15", "zainali15@gmail.com", "Zain@7788", "Islamabad", 31, "Zain", "Bachelors", "Ali", "Enjoys playing and watching sports",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 add(Hobbies.*GAMING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p56 = new Profile("AyeshaButt16", "ayeshabutt16@gmail.com", "Ayesha@9900", "Lahore", 30, "Ayesha", "Masters", "Butt", "Loves reading novels and writing short stories",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*READING*);  
 add(Hobbies.*WRITING*);  
 add(Hobbies.*SKETCHING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p57 = new Profile("SaadShafi17", "saadshafi17@gmail.com", "Saad@1234", "Karachi", 22, "Saad", "Bachelors", "Shafi", "Tech geek, always up for new gadgets",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p58 = new Profile("AnamIqbal18", "anamiqbal18@gmail.com", "Anam@5678", "Islamabad", 26, "Anam", "Masters", "Iqbal", "Avid traveler, loves exploring new cultures",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*DANCE*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 add(Hobbies.*BAKING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p59 = new Profile("UmerKhan19", "umerkhan19@gmail.com", "Umer@9101", "Lahore", 28, "Umer", "Bachelors", "Khan", "Fitness enthusiast, enjoys gym workouts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*DIYS*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p60 = new Profile("FarahSheikh20", "farahsheikh20@gmail.com", "Farah@1122", "Karachi", 24, "Farah", "Masters", "Sheikh", "Love for painting and arts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*SKETCHING*);  
 add(Hobbies.*SEWING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
 Profile p61 = new Profile("AdeelRaza21", "adeelraza21@gmail.com", "Adeel@1234", "Lahore", 27, "Adeel", "Bachelors", "Raza", "Enjoys playing chess and solving puzzles",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*CHESS*);  
 add(Hobbies.*READING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p62 = new Profile("ZaraAhmed22", "zaraahmed22@gmail.com", "Zara@5678", "Karachi", 23, "Zara", "Masters", "Ahmed", "Loves baking and trying new recipes",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*COOKING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p63 = new Profile("BilalKhan23", "bilalkhan23@gmail.com", "Bilal@9101", "Islamabad", 29, "Bilal", "Bachelors", "Khan", "Tech enthusiast, enjoys programming and gaming",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*SPORTS*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p64 = new Profile("HinaAli24", "hinaali24@gmail.com", "Hina@1122", "Lahore", 25, "Hina", "Masters", "Ali", "Enjoys painting and arts and crafts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*SKETCHING*);  
 add(Hobbies.*SEWING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p65 = new Profile("TariqSheikh25", "tariqsheikh25@gmail.com", "Tariq@3344", "Karachi", 30, "Tariq", "Bachelors", "Sheikh", "Loves sports and outdoor activities",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*COOKING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p66 = new Profile("SanaIqbal26", "sanaiqbal26@gmail.com", "Sana@5566", "Islamabad", 24, "Sana", "Masters", "Iqbal", "Enjoys reading and writing",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*READING*);  
 add(Hobbies.*WRITING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p67 = new Profile("AhsanMalik27", "ahsanmalik27@gmail.com", "Ahsan@7788", "Lahore", 32, "Ahsan", "Bachelors", "Malik", "Tech enthusiast, loves coding and new gadgets",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p68 = new Profile("FarihaRaza28", "fariharaza28@gmail.com", "Fariha@9900", "Karachi", 27, "Fariha", "Masters", "Raza", "Enjoys painting and arts and crafts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*SKETCHING*);  
 add(Hobbies.*SEWING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p69 = new Profile("UsmanShah29", "usmanshah29@gmail.com", "Usman@1234", "Islamabad", 25, "Usman", "Bachelors", "Shah", "Loves sports and outdoor activities",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*COOKING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p70 = new Profile("AyeshaAli30", "ayeshaali30@gmail.com", "Ayesha@5678", "Lahore", 28, "Ayesha", "Masters", "Ali", "Enjoys reading and writing",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*READING*);  
 add(Hobbies.*WRITING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p71 = new Profile("RehanAhmed31", "rehanahmed31@gmail.com", "Rehan@9101", "Karachi", 26, "Rehan", "Bachelors", "Ahmed", "Tech enthusiast, enjoys programming and gaming",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*SPORTS*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p72 = new Profile("SaraSheikh32", "sarasheikh32@gmail.com", "Sara@1122", "Islamabad", 24, "Sara", "Masters", "Sheikh", "Enjoys painting and arts and crafts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*SKETCHING*);  
 add(Hobbies.*SEWING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p73 = new Profile("NaveedKhan33", "naveedkhan33@gmail.com", "Naveed@3344", "Lahore", 30, "Naveed", "Bachelors", "Khan", "Loves sports and outdoor activities",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*COOKING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p74 = new Profile("SaminaRaza34", "saminaraza34@gmail.com", "Samina@5566", "Karachi", 26, "Samina", "Masters", "Raza", "Enjoys reading and writing",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*READING*);  
 add(Hobbies.*WRITING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p75 = new Profile("AhmedMalik35", "ahmedmalik35@gmail.com", "Ahmed@7788", "Islamabad", 32, "Ahmed", "Bachelors", "Malik", "Tech enthusiast, loves coding and new gadgets",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p76 = new Profile("HinaKhan36", "hinakhan36@gmail.com", "Hina@9900", "Lahore", 24, "Hina", "Masters", "Khan", "Enjoys painting and arts and crafts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*SKETCHING*);  
 add(Hobbies.*SEWING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p77 = new Profile("AsadAli37", "asadali37@gmail.com", "Asad@1234", "Karachi", 25, "Asad", "Bachelors", "Ali", "Loves sports and outdoor activities",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*COOKING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p78 = new Profile("SabaSheikh38", "sabasheikh38@gmail.com", "Saba@5678", "Islamabad", 27, "Saba", "Masters", "Sheikh", "Enjoys reading and writing",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*READING*);  
 add(Hobbies.*WRITING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p79 = new Profile("AliAhmed39", "aliahmed39@gmail.com", "Ali@9101", "Lahore", 29, "Ali", "Bachelors", "Ahmed", "Tech enthusiast, enjoys programming and gaming",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*SPORTS*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p80 = new Profile("KiranMalik40", "kiranmalik40@gmail.com", "Kiran@1122", "Karachi", 26, "Kiran", "Masters", "Malik", "Enjoys painting and arts and crafts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*SKETCHING*);  
 add(Hobbies.*SEWING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
 Profile p81 = new Profile("HassanAkram41", "hassanakram41@gmail.com", "Hassan@1234", "Lahore", 31, "Hassan", "Masters", "Akram", "Loves hiking and outdoor adventures",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*READING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p82 = new Profile("FatimaIqbal42", "fatimaiqbal42@gmail.com", "Fatima@5678", "Karachi", 28, "Fatima", "Bachelors", "Iqbal", "Enjoys cooking and experimenting with new recipes",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*COOKING*);  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p83 = new Profile("AhmadSiddiqui43", "ahmadsiddiqui43@gmail.com", "Ahmad@9101", "Islamabad", 27, "Ahmad", "Masters", "Siddiqui", "Tech enthusiast, loves coding and gaming",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*SPORTS*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p84 = new Profile("AishaKhan44", "aishakhan44@gmail.com", "Aisha@1122", "Lahore", 24, "Aisha", "Bachelors", "Khan", "Enjoys painting and arts and crafts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*SKETCHING*);  
 add(Hobbies.*SEWING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p85 = new Profile("RehmanAli45", "rehmanali45@gmail.com", "Rehman@3344", "Karachi", 29, "Rehman", "Masters", "Ali", "Loves sports and outdoor activities",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*COOKING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p86 = new Profile("MariamShah46", "mariamshah46@gmail.com", "Mariam@5566", "Islamabad", 26, "Mariam", "Bachelors", "Shah", "Enjoys reading and writing",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*READING*);  
 add(Hobbies.*WRITING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p87 = new Profile("UsmanRaza47", "usmanraza47@gmail.com", "Usman@7788", "Lahore", 32, "Usman", "Masters", "Raza", "Tech enthusiast, loves coding and new gadgets",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p88 = new Profile("FizaAhmed48", "fizaahmed48@gmail.com", "Fiza@9900", "Karachi", 24, "Fiza", "Bachelors", "Ahmed", "Enjoys painting and arts and crafts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*SKETCHING*);  
 add(Hobbies.*SEWING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p89 = new Profile("SalmanKhan49", "salmankhan49@gmail.com", "Salman@1234", "Islamabad", 30, "Salman", "Masters", "Khan", "Loves sports and outdoor activities",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*COOKING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p90 = new Profile("ZainabAli50", "zainabali50@gmail.com", "Zainab@5678", "Lahore", 25, "Zainab", "Bachelors", "Ali", "Enjoys reading and writing",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*READING*);  
 add(Hobbies.*WRITING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p91 = new Profile("OmarHassan51", "omarhassan51@gmail.com", "Omar@9101", "Karachi", 28, "Omar", "Masters", "Hassan", "Tech enthusiast, enjoys programming and gaming",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*SPORTS*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p92 = new Profile("SadiaKhan52", "sadiakhan52@gmail.com", "Sadia@1122", "Islamabad", 27, "Sadia", "Bachelors", "Khan", "Enjoys painting and arts and crafts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*SKETCHING*);  
 add(Hobbies.*SEWING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p93 = new Profile("FarhanAli53", "farhanali53@gmail.com", "Farhan@3344", "Lahore", 29, "Farhan", "Masters", "Ali", "Loves sports and outdoor activities",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*COOKING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p94 = new Profile("AminaShah54", "aminashah54@gmail.com", "Amina@5566", "Karachi", 26, "Amina", "Bachelors", "Shah", "Enjoys reading and writing",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*READING*);  
 add(Hobbies.*WRITING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p95 = new Profile("YasirRaza55", "yasirraza55@gmail.com", "Yasir@7788", "Islamabad", 32, "Yasir", "Masters", "Raza", "Tech enthusiast, loves coding and new gadgets",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p96 = new Profile("NidaAhmed56", "nidaahmed56@gmail.com", "Nida@9900", "Lahore", 24, "Nida", "Bachelors", "Ahmed", "Enjoys painting and arts and crafts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*SKETCHING*);  
 add(Hobbies.*SEWING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p97 = new Profile("FaisalKhan57", "faisalkhan57@gmail.com", "Faisal@1234", "Karachi", 31, "Faisal", "Masters", "Khan", "Loves sports and outdoor activities",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*SPORTS*);  
 add(Hobbies.*BAKING*);  
 add(Hobbies.*COOKING*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p98 = new Profile("HiraAli58", "hiraali58@gmail.com", "Hira@5678", "Islamabad", 28, "Hira", "Bachelors", "Ali", "Enjoys reading and writing",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*READING*);  
 add(Hobbies.*WRITING*);  
 add(Hobbies.*PHOTOGRAPHY*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 Profile p99 = new Profile("ZubairHassan59", "zubairhassan59@gmail.com", "Zubair@9101", "Lahore", 27, "Zubair", "Masters", "Hassan", "Tech enthusiast, enjoys programming and gaming",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PROGRAMMING*);  
 add(Hobbies.*GAMING*);  
 add(Hobbies.*SPORTS*);  
 }}, Religion.*ISLAM*, Gender.*MALE*);  
  
 Profile p100 = new Profile("RabiaShah60", "rabiashah60@gmail.com", "Rabia@1122", "Karachi", 24, "Rabia", "Bachelors", "Shah", "Enjoys painting and arts and crafts",  
 new ArrayList<Hobbies>() {{  
 add(Hobbies.*PAINTING*);  
 add(Hobbies.*SKETCHING*);  
 add(Hobbies.*SEWING*);  
 }}, Religion.*ISLAM*, Gender.*FEMALE*);  
  
 *profiles*.add(p81);  
 *profiles*.add(p82);  
 *profiles*.add(p83);  
 *profiles*.add(p84);  
 *profiles*.add(p85);  
 *profiles*.add(p86);  
 *profiles*.add(p87);  
 *profiles*.add(p88);  
 *profiles*.add(p89);  
 *profiles*.add(p90);  
 *profiles*.add(p91);  
 *profiles*.add(p92);  
 *profiles*.add(p93);  
 *profiles*.add(p94);  
 *profiles*.add(p95);  
 *profiles*.add(p96);  
 *profiles*.add(p97);  
 *profiles*.add(p98);  
 *profiles*.add(p99);  
 *profiles*.add(p100);  
 *profiles*.add(p61);  
 *profiles*.add(p62);  
 *profiles*.add(p63);  
 *profiles*.add(p64);  
 *profiles*.add(p65);  
 *profiles*.add(p66);  
 *profiles*.add(p67);  
 *profiles*.add(p68);  
 *profiles*.add(p69);  
 *profiles*.add(p70);  
 *profiles*.add(p71);  
 *profiles*.add(p72);  
 *profiles*.add(p73);  
 *profiles*.add(p74);  
 *profiles*.add(p75);  
 *profiles*.add(p76);  
 *profiles*.add(p77);  
 *profiles*.add(p78);  
 *profiles*.add(p79);  
 *profiles*.add(p80);  
  
  
 *profiles*.add(p41);  
 *profiles*.add(p42);  
 *profiles*.add(p43);  
 *profiles*.add(p44);  
 *profiles*.add(p45);  
 *profiles*.add(p46);  
 *profiles*.add(p47);  
 *profiles*.add(p48);  
 *profiles*.add(p49);  
 *profiles*.add(p50);  
 *profiles*.add(p51);  
 *profiles*.add(p52);  
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 *profiles*.add(p54);  
 *profiles*.add(p55);  
 *profiles*.add(p56);  
 *profiles*.add(p57);  
 *profiles*.add(p58);  
 *profiles*.add(p59);  
 *profiles*.add(p60);  
 *profiles*.add(p21);  
 *profiles*.add(p22);  
 *profiles*.add(p23);  
 *profiles*.add(p24);  
 *profiles*.add(p25);  
 *profiles*.add(p26);  
 *profiles*.add(p27);  
 *profiles*.add(p28);  
 *profiles*.add(p29);  
 *profiles*.add(p30);  
 *profiles*.add(p1);  
 *profiles*.add(p2);  
 *profiles*.add(p3);  
 *profiles*.add(p4);  
 *profiles*.add(p5);  
 *profiles*.add(p6);  
 *profiles*.add(p7);  
 *profiles*.add(p8);  
 *profiles*.add(p9);  
 *profiles*.add(p10);  
 *profiles*.add(p11);  
 *profiles*.add(p12);  
 *profiles*.add(p13);  
 *profiles*.add(p14);  
 *profiles*.add(p15);  
 *profiles*.add(p16);  
 *profiles*.add(p17);  
 *profiles*.add(p18);  
 *profiles*.add(p19);  
 *profiles*.add(p20);  
 return *profiles*;  
 }  
}

# Hobbies Enum :

package com.example.connect;  
  
public enum Hobbies {  
 *PAINTING*,  
 *BAKING*,  
 *BINGE\_WATCHING*,  
 *SKETCHING*,  
 *KNITTING*,  
 *PHOTOGRAPHY*,  
 *WRITING*,  
 *DANCE*,  
 *COOKING*,  
 *CHESS*,  
 *PROGRAMMING*,  
 *GUITAR*,  
 *SPORTS*,  
 *SEWING*,  
 *GAMING*,  
 *READING*,  
  
 *WOOD\_CRAFT*,  
 *DIYS*,  
 *SHOPPING*,  
 *SINGING*;  
}

# Religion Enum :

package com.example.connect;  
  
public enum Religion {  
 *ISLAM*,  
 *CHRISTIANITY*,  
 *HINDUISM*,  
 *JUDAISM*,  
 *ATHEISM*,  
 *SIKHISM*,  
 *BUDDHISM*;  
}

# Gender Enum :

package com.example.connect;  
  
public enum Gender {  
 *MALE*,  
 *FEMALE*;  
}

# Gender out of range Exception :

package com.example.connect;  
  
public class AgeInvalidException extends RuntimeException {  
  
 public String getMessage(){  
 return "You are Under age ";  
 }  
  
}

# Gender Out of range Exception :

package com.example.connect;  
  
public class GenderOutOfRangeException extends RuntimeException{  
  
 public String getMessage(){  
 return"Gender invalid , Try Again : ";  
 }  
}

# Religionout of bound Exception :

package com.example.connect;  
  
public class GenderOutOfRangeException extends RuntimeException{  
  
 public String getMessage(){  
 return"Gender invalid , Try Again : ";  
 }  
}

# Startup Controller :

package com.example.connect;  
  
import javafx.animation.KeyFrame;  
import javafx.animation.Timeline;  
import javafx.fxml.FXML;  
import javafx.fxml.FXMLLoader;  
import javafx.fxml.Initializable;  
import javafx.scene.Parent;  
import javafx.scene.Scene;  
import javafx.scene.control.ProgressBar;  
import javafx.stage.Stage;  
import javafx.util.Duration;  
import javafx.application.Platform;  
import java.io.IOException;  
import java.net.URL;  
import java.util.ResourceBundle;  
  
public class StartupController implements Initializable {  
  
 @FXML  
 private ProgressBar progressBar;  
  
 @Override  
 public void initialize(URL location, ResourceBundle resources) {  
 Timeline timeline = new Timeline(  
 new KeyFrame(Duration.*ZERO*, e -> progressBar.setProgress(0)),  
 new KeyFrame(Duration.*seconds*(3), e -> progressBar.setProgress(1))  
 );  
 timeline.setCycleCount(1);  
 timeline.play();  
  
 timeline.setOnFinished(e -> switchToIntermediateScene());  
 }  
  
 private void switchToIntermediateScene() {  
 Platform.*runLater*(() -> {  
 try {  
 FXMLLoader loader = new FXMLLoader(getClass().getResource("intermediateScene.fxml"));  
 Parent root = loader.load();  
 Stage stage = (Stage) progressBar.getScene().getWindow();  
 stage.setScene(new Scene(root));  
 stage.show();  
 } catch (IOException ex) {  
 ex.printStackTrace();  
 }  
 });  
 }  
}

# Intermediate Controller :

package com.example.connect;  
  
import javafx.event.ActionEvent;  
import javafx.fxml.FXML;  
import javafx.fxml.FXMLLoader;  
import javafx.scene.Parent;  
import javafx.scene.Scene;  
import javafx.stage.Stage;  
import javafx.scene.Node;  
import java.io.IOException;  
  
public class IntermediateController {  
  
 @FXML  
 void handleProceed(ActionEvent event) {  
 try {  
 FXMLLoader loader = new FXMLLoader(getClass().getResource("signupScene.fxml"));  
 Parent root = loader.load();  
 Stage stage = (Stage) ((Node) event.getSource()).getScene().getWindow();  
 stage.setScene(new Scene(root));  
 stage.show();  
 } catch (IOException e) {  
 e.printStackTrace();  
 }  
 }  
}

# Signup Controller :

package com.example.connect;  
  
import javafx.collections.FXCollections;  
import javafx.event.ActionEvent;  
import javafx.fxml.FXML;  
import javafx.fxml.FXMLLoader;  
import javafx.scene.Node;  
import javafx.scene.Parent;  
import javafx.scene.Scene;  
import javafx.scene.control.\*;  
import javafx.stage.Stage;  
  
import java.io.IOException;  
import java.util.ArrayList;  
import java.util.List;  
  
public class SignController {  
  
 @FXML  
 private TextField ageField;  
  
 @FXML  
 private TextField bioField;  
  
 @FXML  
 private TextField castField;  
  
 @FXML  
 private TextField cityField;  
  
 @FXML  
 private PasswordField confirmPasswordField;  
  
 @FXML  
 private TextField educationField;  
  
 @FXML  
 private TextField emailField;  
  
 @FXML  
 private Label errorLabel;  
  
 @FXML  
 private ComboBox<Gender> genderComboBox;  
  
 @FXML  
 private ComboBox<Religion> religionComboBox;  
  
 @FXML  
 private ComboBox<Hobbies> hobbyComboBox1;  
  
 @FXML  
 private ComboBox<Hobbies> hobbyComboBox2;  
  
 @FXML  
 private ComboBox<Hobbies> hobbyComboBox3;  
  
 @FXML  
 private TextField nameField;  
  
 @FXML  
 private PasswordField passwordField;  
  
 @FXML  
 private Button signupButton;  
  
 @FXML  
 private TextField usernameField;  
  
 private Profile p1;  
  
 @FXML  
 public void initialize() {  
 *// Populate ComboBoxes with enum values* hobbyComboBox1.setItems(FXCollections.*observableArrayList*(Hobbies.*values*()));  
 hobbyComboBox2.setItems(FXCollections.*observableArrayList*(Hobbies.*values*()));  
 hobbyComboBox3.setItems(FXCollections.*observableArrayList*(Hobbies.*values*()));  
 religionComboBox.setItems(FXCollections.*observableArrayList*(Religion.*values*()));  
 genderComboBox.setItems(FXCollections.*observableArrayList*(Gender.*values*()));  
 }  
  
 @FXML  
 void handleSignup(ActionEvent event) {  
 try {  
 *// Validate all fields* if (!validateFields()) {  
 return; *// Stop if any validation fails* }  
  
 *// Set student details* Signup\_user.*setUsername*(usernameField.getText());  
 Signup\_user.*setPassword*(passwordField.getText());  
 Signup\_user.*setConfirmpassword*(confirmPasswordField.getText());  
 Signup\_user.*setName*(nameField.getText());  
 Signup\_user.*setAge*(Integer.*parseInt*(ageField.getText()));  
 Signup\_user.*setBio*(bioField.getText());  
 Signup\_user.*setCast*(castField.getText());  
 Signup\_user.*setCity*(cityField.getText());  
 Signup\_user.*setReligion*(religionComboBox.getValue());  
 Signup\_user.*setGender*(genderComboBox.getValue());  
  
 Hobbies h1 = hobbyComboBox1.getValue();  
 Hobbies h2 = hobbyComboBox2.getValue();  
 Hobbies h3 = hobbyComboBox3.getValue();  
 ArrayList<Hobbies> hobbies = new ArrayList<>();  
 hobbies.add(h1);  
 hobbies.add(h2);  
 hobbies.add(h3);  
 Signup\_user.*setHobby*(hobbies);  
  
 Signup\_user.*setEmail*(emailField.getText());  
 Signup\_user.*setEducation*(educationField.getText());  
  
 *// 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*()  
 );  
  
 *// Generate matching profiles* Match m1 = new Match(HardCodedProfiles.*hardCodedProfiles*(), p1);  
 List<Profile> compatibleProfiles = m1.compatibleProfiles(HardCodedProfiles.*hardCodedProfiles*(), p1);  
  
 *// Load the next scene and pass profile data* FXMLLoader loader = new FXMLLoader(getClass().getResource("matchingProfilesScene.fxml"));  
 Parent root = loader.load();  
 MatchingController matchingController = loader.getController();  
 matchingController.setProfiles(FXCollections.*observableArrayList*(compatibleProfiles));  
  
 *// Redirect to the matching profiles scene* Stage stage = (Stage) ((Node) event.getSource()).getScene().getWindow();  
 stage.setScene(new Scene(root));  
 stage.show();  
 } catch (IOException e) {  
 e.printStackTrace();  
 }  
 }  
  
 private boolean validateFields() {  
 String username = usernameField.getText();  
 String password = passwordField.getText();  
 String confirmPassword = confirmPasswordField.getText();  
 String email = emailField.getText();  
 String ageText = ageField.getText();  
  
 *// Validate username* if (username.isEmpty() || User.*containsSpecialCharacters*(username)) {  
 errorLabel.setText("Invalid username. It should not contain special characters other than '\_'.");  
 return false;  
 }  
  
 *// Validate password* if (!User.*containsLetters*(password) || !User.*containsNumbers*(password) || !User.*containsSpecialCharacters*(password)) {  
 errorLabel.setText("Password must contain a letter, a number, and a special character.");  
 return false;  
 }  
  
 *// Validate confirm password* if (!password.equals(confirmPassword)) {  
 errorLabel.setText("Passwords do not match.");  
 return false;  
 }  
  
 *// Validate email* if (!email.endsWith("@gmail.com")) {  
 errorLabel.setText("Email must be a valid Gmail address (e.g., example@gmail.com).");  
 return false;  
 }  
  
 *// Validate age* try {  
 int age = Integer.*parseInt*(ageText);  
 if (age < 18) {  
 errorLabel.setText("Age must be 18 or older.");  
 return false;  
 }  
 } catch (NumberFormatException e) {  
 errorLabel.setText("Age must be a valid number.");  
 return false;  
 }  
  
 *// Validate other fields* if (nameField.getText().isEmpty() || cityField.getText().isEmpty() || castField.getText().isEmpty() ||  
 bioField.getText().isEmpty() || educationField.getText().isEmpty() ||  
 genderComboBox.getValue() == null || religionComboBox.getValue() == null ||  
 hobbyComboBox1.getValue() == null || hobbyComboBox2.getValue() == null || hobbyComboBox3.getValue() == null) {  
 errorLabel.setText("All fields must be filled out.");  
 return false;  
 }  
  
 *// Clear error label if everything is valid* errorLabel.setText("");  
 return true;  
 }  
}

# Matching Controller :

package com.example.connect;  
  
import javafx.collections.ObservableList;  
import javafx.event.ActionEvent;  
import javafx.fxml.FXML;  
import javafx.fxml.FXMLLoader;  
import javafx.scene.Parent;  
import javafx.scene.Scene;  
import javafx.scene.control.Button;  
import javafx.scene.control.Label;  
import javafx.scene.control.ListView;  
import javafx.stage.Stage;  
import javafx.scene.Node;  
import java.io.IOException;  
import java.net.URL;  
  
public class MatchingController {  
  
 @FXML  
 private ListView<Profile> profilesListView;  
  
 @FXML  
 private Button viewProfileButton;  
  
 private ObservableList<Profile> profiles;  
  
 @FXML  
 void handleViewProfile(ActionEvent event) {  
 Profile selectedProfile = profilesListView.getSelectionModel().getSelectedItem();  
 if (selectedProfile != null) {  
 try {  
 FXMLLoader loader = new FXMLLoader(getClass().getResource("detailedProfileScene.fxml"));  
 Parent root = loader.load();  
  
 ProfileController profileController = loader.getController();  
 profileController.setProfile(selectedProfile);  
 profileController.setProfiles(profiles); *// Pass the list of profiles to the ProfileController* Stage stage = (Stage) ((Node) event.getSource()).getScene().getWindow();  
 stage.setScene(new Scene(root));  
 stage.show();  
 } catch (IOException e) {  
 e.printStackTrace();  
 }  
 }  
 }  
  
 public void setProfiles(ObservableList<Profile> profiles) {  
 this.profiles = profiles;  
 profilesListView.setItems(profiles);  
 }  
}

# Detailed Profile Controller :

package com.example.connect;  
  
import javafx.collections.ObservableList;  
import javafx.fxml.FXML;  
import javafx.scene.control.Button;  
import javafx.scene.control.Label;  
import javafx.event.ActionEvent;  
import javafx.fxml.FXMLLoader;  
import javafx.scene.Parent;  
import javafx.scene.Scene;  
import javafx.stage.Stage;  
import javafx.scene.Node;  
import java.io.IOException;  
  
public class ProfileController {  
  
 @FXML  
 private Button backButton;  
  
 @FXML  
 private Label profileDetailsLabel;  
  
 private Profile profile;  
 private ObservableList<Profile> profiles;  
  
 public void setProfile(Profile profile) {  
 this.profile = profile;  
 profileDetailsLabel.setText(  
 "Name: " + profile.getName() + "\n" +  
 "Age: " + profile.getAge() + "\n" +  
 "City: " + profile.getCity() + "\n" +  
 "Education: " + profile.getEducation() + "\n" +  
 "Email: " + profile.user.getEmail() + "\n" +  
 "Bio: " + profile.getBio() + "\n" +  
 "Hobbies: " + profile.getHobby() + "\n" +  
 "Religion: " + profile.getReligion() + "\n" +  
 "Gender: " + profile.getGender() + "\n"  
 );  
 }  
  
 public void setProfiles(ObservableList<Profile> profiles) {  
 this.profiles = profiles;  
 }  
  
 @FXML  
 void handleBackButton(ActionEvent event) {  
 try {  
 FXMLLoader loader = new FXMLLoader(getClass().getResource("matchingProfilesScene.fxml"));  
 Parent root = loader.load();  
  
 MatchingController matchingController = loader.getController();  
 matchingController.setProfiles(profiles);  
  
 Stage stage = (Stage) ((Node) event.getSource()).getScene().getWindow();  
 stage.setScene(new Scene(root));  
 stage.show();  
 } catch (IOException e) {  
 e.printStackTrace();  
 } } }

# Hello Application:

package com.example.connect;  
  
import javafx.application.Application;  
import javafx.fxml.FXMLLoader;  
import javafx.scene.Scene;  
import javafx.stage.Stage;  
  
import java.io.IOException;  
import java.util.ArrayList;  
  
public class HelloApplication extends Application {  
 private Stage primaryStage;  
 private Scene startupScene, intermediateScene, signupScene, matchingProfilesScene, detailedProfileScene;  
 private ArrayList<Profile> profiles;  
  
 @Override  
 public void start(Stage stage) throws IOException {  
 try {  
 FXMLLoader loader = new FXMLLoader(HelloApplication.class.getResource("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);  
 }  
}

RESOURCES

Startup Scene FXML :

*<?*xml version="1.0" encoding="UTF-8"*?>  
  
<?*import javafx.scene.control.ProgressBar*?>  
<?*import javafx.scene.image.Image*?>  
<?*import javafx.scene.image.ImageView*?>  
<?*import javafx.scene.layout.StackPane*?>  
<?*import javafx.scene.layout.VBox*?>*<StackPane prefHeight="600.0" prefWidth="600.0" xmlns:fx="http://javafx.com/fxml/1" xmlns="http://javafx.com/javafx/21" fx:controller="com.example.connect.StartupController">  
 <ImageView fitHeight="603.0" fitWidth="707.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@bg1.jpg" />  
 </image>  
 </ImageView>  
 <VBox alignment="CENTER" spacing="20.0">  
 <ImageView fitHeight="600.0" fitWidth="220.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@loveguru.png" />  
 </image>  
 </ImageView>  
 <ProgressBar fx:id="progressBar" prefWidth="400.0" StackPane.alignment="CENTER" styleClass="red-bar"/>  
  
 </VBox>  
</StackPane>

Intermediate scene FXML :

*<?*xml version="1.0" encoding="UTF-8"*?>  
  
<?*import javafx.geometry.Insets*?>  
<?*import javafx.scene.control.Button*?>  
<?*import javafx.scene.control.Label*?>  
<?*import javafx.scene.image.Image*?>  
<?*import javafx.scene.image.ImageView*?>  
<?*import javafx.scene.layout.HBox*?>  
<?*import javafx.scene.layout.StackPane*?>  
<?*import javafx.scene.layout.VBox*?>*<StackPane prefHeight="603.0" prefWidth="707.0" xmlns="http://javafx.com/javafx/21" xmlns:fx="http://javafx.com/fxml/1" fx:controller="com.example.connect.IntermediateController">  
 <ImageView fitHeight="603.0" fitWidth="707.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@bg1.jpg" />  
 </image>  
 </ImageView>  
 <VBox alignment="CENTER" prefHeight="632.0" prefWidth="707.0" spacing="20.0">  
 <ImageView fitHeight="457.0" fitWidth="445.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@bg2.png" />  
 </image>  
 </ImageView>  
 <HBox alignment="CENTER" spacing="20.0" />  
 <Label alignment="CENTER" prefHeight="100.0" prefWidth="424.0" style="-fx-font-size: 24; -fx-font-family: Algerian;" text="Welcome to the Love Guru" />  
 <Button fx:id="proceedButton" onAction="#handleProceed" prefHeight="100.0" prefWidth="200.0" style="-fx-background-color: #ff2121; -fx-font-family: Algerian;" text="Proceed for MatchMaking" textFill="#171717" />  
 </VBox>  
 <padding>  
 <Insets bottom="20" />  
 </padding>  
</StackPane>

# Signup Scene FXML :

*<?*xml version="1.0" encoding="UTF-8"*?>  
  
<?*import javafx.geometry.Insets*?>  
<?*import javafx.scene.control.Button*?>  
<?*import javafx.scene.control.ComboBox*?>  
<?*import javafx.scene.control.Label*?>  
<?*import javafx.scene.control.PasswordField*?>  
<?*import javafx.scene.control.TextField*?>  
<?*import javafx.scene.image.Image*?>  
<?*import javafx.scene.image.ImageView*?>  
<?*import javafx.scene.layout.ColumnConstraints*?>  
<?*import javafx.scene.layout.GridPane*?>  
<?*import javafx.scene.layout.RowConstraints*?>  
<?*import javafx.scene.layout.StackPane*?>*<StackPane prefHeight="600.0" prefWidth="600.0" xmlns="http://javafx.com/javafx/21" xmlns:fx="http://javafx.com/fxml/1" fx:controller="com.example.connect.SignController">  
 <padding>  
 <Insets bottom="10" left="10" right="10" top="10" />  
 </padding>  
 <ImageView fitHeight="603.0" fitWidth="707.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@bg1.jpg" />  
 </image>  
 </ImageView>  
 <ImageView fitHeight="596.0" fitWidth="596.0" opacity="0.66" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@bg3.png" />  
 </image>  
 </ImageView>  
  
 *<!-- Your GridPane content -->* <GridPane alignment="CENTER" hgap="10" vgap="10">  
 <Label alignment="CENTER" prefHeight="17.0" prefWidth="102.0" style="-fx-background-color: #ddb9b9;" text="Username:" GridPane.columnIndex="3" />  
 <TextField fx:id="usernameField" opacity="0.51" GridPane.columnIndex="4" />  
  
 <Label alignment="CENTER" prefHeight="17.0" prefWidth="101.0" style="-fx-background-color: #ddb9b9;" text="Email:" GridPane.columnIndex="3" GridPane.rowIndex="1" />  
 <TextField fx:id="emailField" opacity="0.51" GridPane.columnIndex="4" GridPane.rowIndex="1" />  
  
 <Label alignment="CENTER" prefHeight="17.0" prefWidth="100.0" style="-fx-background-color: #ddb9b9;" text="Password:" GridPane.columnIndex="3" GridPane.rowIndex="2" />  
 <PasswordField fx:id="passwordField" opacity="0.51" GridPane.columnIndex="4" GridPane.rowIndex="2" />  
  
 <Label alignment="CENTER" prefHeight="17.0" prefWidth="102.0" style="-fx-background-color: #ddb9b9;" text="Confirm Password:" GridPane.columnIndex="3" GridPane.rowIndex="3" />  
 <PasswordField fx:id="confirmPasswordField" opacity="0.51" GridPane.columnIndex="4" GridPane.rowIndex="3" />  
  
 <Label alignment="CENTER" prefHeight="17.0" prefWidth="103.0" style="-fx-background-color: #ddb9b9;" text="City:" GridPane.columnIndex="3" GridPane.rowIndex="4" />  
 <TextField fx:id="cityField" opacity="0.51" GridPane.columnIndex="4" GridPane.rowIndex="4" />  
  
 <Label alignment="CENTER" prefHeight="17.0" prefWidth="99.0" style="-fx-background-color: #ddb9b9;" text="Age:" GridPane.columnIndex="3" GridPane.rowIndex="5" />  
 <TextField fx:id="ageField" opacity="0.51" GridPane.columnIndex="4" GridPane.rowIndex="5" />  
  
 <Label alignment="CENTER" prefHeight="17.0" prefWidth="103.0" style="-fx-background-color: #ddb9b9;" text="Name:" GridPane.columnIndex="3" GridPane.rowIndex="6" />  
 <TextField fx:id="nameField" opacity="0.51" GridPane.columnIndex="4" GridPane.rowIndex="6" />  
  
 <Label alignment="CENTER" prefHeight="17.0" prefWidth="102.0" style="-fx-background-color: #ddb9b9;" text="Education:" GridPane.columnIndex="3" GridPane.rowIndex="7" />  
 <TextField fx:id="educationField" opacity="0.51" GridPane.columnIndex="4" GridPane.rowIndex="7" />  
  
 <Label alignment="CENTER" prefHeight="17.0" prefWidth="97.0" style="-fx-background-color: #ddb9b9;" text="Cast:" GridPane.columnIndex="3" GridPane.rowIndex="8" />  
 <TextField fx:id="castField" opacity="0.51" GridPane.columnIndex="4" GridPane.rowIndex="8" />  
  
 <Label alignment="CENTER" prefHeight="17.0" prefWidth="101.0" style="-fx-background-color: #ddb9b9;" text="Bio:" GridPane.columnIndex="3" GridPane.rowIndex="9" />  
 <TextField fx:id="bioField" opacity="0.51" GridPane.columnIndex="4" GridPane.rowIndex="9" />  
  
 <Label alignment="CENTER" prefHeight="17.0" prefWidth="102.0" style="-fx-background-color: #ddb9b9;" text="Hobbies:" GridPane.columnIndex="3" GridPane.rowIndex="10" />  
 <ComboBox fx:id="hobbyComboBox1" opacity="0.51" prefHeight="25.0" prefWidth="149.0" GridPane.columnIndex="4" GridPane.rowIndex="10" />  
 <ComboBox fx:id="hobbyComboBox2" opacity="0.51" prefHeight="25.0" prefWidth="154.0" GridPane.columnIndex="4" GridPane.rowIndex="11" />  
 <ComboBox fx:id="hobbyComboBox3" opacity="0.51" prefHeight="25.0" prefWidth="155.0" GridPane.columnIndex="4" GridPane.rowIndex="12" />  
  
 <Label alignment="CENTER" prefHeight="17.0" prefWidth="98.0" style="-fx-background-color: #ddb9b9;" text="Religion:" GridPane.columnIndex="3" GridPane.rowIndex="13" />  
 <ComboBox fx:id="religionComboBox" opacity="0.51" prefHeight="25.0" prefWidth="159.0" GridPane.columnIndex="4" GridPane.rowIndex="13" />  
  
 <Label alignment="CENTER" prefHeight="17.0" prefWidth="100.0" style="-fx-background-color: #ddb9b9;" text="Gender:" GridPane.columnIndex="3" GridPane.rowIndex="14" />  
 <ComboBox fx:id="genderComboBox" opacity="0.51" prefHeight="25.0" prefWidth="157.0" GridPane.columnIndex="4" GridPane.rowIndex="14" />  
  
 <Button fx:id="signupButton" onAction="#handleSignup" prefHeight="25.0" prefWidth="256.0" style="-fx-background-color: #ff0202;" text="Show Compatible Profiles" GridPane.columnIndex="4" GridPane.rowIndex="16" />  
  
 <Label fx:id="errorLabel" style="-fx-background-color: #ffffff;" textFill="RED" GridPane.columnIndex="4" GridPane.rowIndex="15" />  
  
 <columnConstraints>  
 <ColumnConstraints />  
 <ColumnConstraints />  
 <ColumnConstraints />  
 <ColumnConstraints />  
 <ColumnConstraints />  
 </columnConstraints>  
 <rowConstraints>  
 <RowConstraints />  
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 <RowConstraints />  
 <RowConstraints />  
 <RowConstraints />  
 <RowConstraints />  
 </rowConstraints>  
 </GridPane>  
</StackPane>

# Matching Profile Scene FXML :

*<?*xml version="1.0" encoding="UTF-8"*?>  
  
<?*import javafx.geometry.Insets*?>  
<?*import javafx.scene.control.Button*?>  
<?*import javafx.scene.control.Label*?>  
<?*import javafx.scene.control.ListView*?>  
<?*import javafx.scene.layout.StackPane*?>  
<?*import javafx.scene.layout.VBox*?>  
  
<?*import javafx.scene.image.ImageView*?>  
<?*import javafx.scene.image.Image*?>*<StackPane prefHeight="600.0" prefWidth="600.0" xmlns="http://javafx.com/javafx/21" xmlns:fx="http://javafx.com/fxml/1" fx:controller="com.example.connect.MatchingController">  
 <padding>  
 <Insets bottom="10" left="10" right="10" top="10" />  
 </padding>  
 <ImageView fitHeight="150.0" fitWidth="200.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@loveguru.png" />  
 </image>  
 </ImageView>  
  
 *<!-- Your VBox content -->* <VBox alignment="CENTER" opacity="0.86" spacing="10" style="-fx-background-color: #c61b1b;">  
 <padding>  
 <Insets bottom="10" left="10" right="10" top="10" />  
 </padding>  
  
  
 <Label text="Matching Profiles:" />  
 <ListView fx:id="profilesListView" prefHeight="400" VBox.vgrow="ALWAYS" />  
 <Button fx:id="viewProfileButton" onAction="#handleViewProfile" text="View Profile" />  
 </VBox>  
</StackPane>

# Detailed Profile Scene FXML:

*<?*xml version="1.0" encoding="UTF-8"*?>  
  
<?*import javafx.geometry.Insets*?>  
<?*import javafx.scene.control.Button*?>  
<?*import javafx.scene.control.Label*?>  
<?*import javafx.scene.image.Image*?>  
<?*import javafx.scene.image.ImageView*?>  
<?*import javafx.scene.layout.StackPane*?>  
<?*import javafx.scene.layout.VBox*?>*<StackPane maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity" minWidth="-Infinity" prefHeight="603.0" prefWidth="707.0" xmlns="http://javafx.com/javafx/21" xmlns:fx="http://javafx.com/fxml/1" fx:controller="com.example.connect.ProfileController">  
 <ImageView fitHeight="606.0" fitWidth="702.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@bg1.jpg" />  
 </image>  
 </ImageView>  
 <VBox alignment="CENTER" spacing="10">  
 <padding>  
 <Insets bottom="10" left="10" right="10" top="10" />  
 </padding>  
 <Label fx:id="profileDetailsLabel" text="Profile Details" />  
 <Button fx:id="backButton" onAction="#handleBackButton" text="Back" />  
 </VBox>  
</StackPane>

# Images:

# BG1 :



# BG2:

# 

# BG 3 :



# BG 4 :



# BG 5 :



# Love Guru :

# Pink :