**APPENDICES**

(**APPENDIX A SOURCE CODE**)

# CODE

import java.util.ArrayList; import java.util.Scanner; // User class to manage user details class User {

private String name; private String email;

private String role; // Patient or Therapist public User(String name, String email, String role) {

this.name = name; this.email = email; this.role = role;

}

public String getName() {

return name;

} public String getRole() { return role;

}

public String getEmail() {

return email;

}

@Override

public String toString() { return "Name: " + name + ", Email: " + email + ", Role: " + role; }

}

// Appointment class to manage appointments class Appointment { private String patientName; private String therapistName; private String date;

public Appointment(String patientName, String therapistName, String date) { this.patientName = patientName; this.therapistName = therapistName; this.date = date;

@Override

public String toString() { return "Appointment [Patient: " + patientName + ", Therapist: " + therapistName + ", Date: " + date + "]"; }

}

// Main system class public class Main {

private ArrayList<User> users = new ArrayList<>(); private ArrayList<Appointment> appointments = new ArrayList<>(); private Scanner scanner = new Scanner(System.in);

public void start() {

System.out.println("Welcome to the Mental Health Care System"); while (true) {

System.out.println("\n1. Register\n2. Login\n3. Exit"); System.out.print("Choose an option: "); int choice = scanner.nextInt(); scanner.nextLine(); // Clear buffer

switch (choice) { case 1: register(); break;

case 2: login(); break;

case 3:

System.out.println("Exiting the system. Take care!"); return; default:

System.out.println("Invalid option. Try again.");

}

}

}

private void register() {

System.out.print("Enter your name: ");

String name = scanner.nextLine();

System.out.print("Enter your email: ");

String email = scanner.nextLine();

System.out.print("Are you a Patient or Therapist? ");

String role = scanner.nextLine();

users.add(new User(name, email, role));

System.out.println("Registration successful!");

}

private void login() {

System.out.print("Enter your email: ");

String email = scanner.nextLine();

User user = findUserByEmail(email);

if (user != null) {

System.out.println("Welcome, " + user.getName() + " (" + user.getRole() + ")"); if (user.getRole().equalsIgnoreCase("Patient")) {

patientMenu(user);

} else if (user.getRole().equalsIgnoreCase("Therapist")) { therapistMenu(user);

}

} else {

System.out.println("User not found. Please register first.");

}

}

private User findUserByEmail(String email) { for (User user : users) { if (user.getEmail().equalsIgnoreCase(email)) { return user;

} } return null;

}

private void patientMenu(User patient) { while (true) {

System.out.println("\n1. Book Appointment\n2. View Appointments\n3. Logout"); System.out.print("Choose an option: "); int choice = scanner.nextInt(); scanner.nextLine(); // Clear buffer

switch (choice) {

case 1: bookAppointment(patient); break;

case 2: viewAppointments(patient.getName()); break;

case 3:

return;

default:

System.out.println("Invalid option. Try again."); }

}

} private void therapistMenu(User therapist) { while (true) {

System.out.println("\n1. View Appointments\n2. Logout"); System.out.print("Choose an option: "); int choice = scanner.nextInt(); scanner.nextLine(); // Clear buffer

switch (choice) {

case 1: viewAppointments(therapist.getName()); break;

case 2:

return;

default:

System.out.println("Invalid option. Try again.");

private void bookAppointment(User patient) {

System.out.print("Enter therapist name: ");

String therapistName = scanner.nextLine();

System.out.print("Enter appointment date (YYYY-MM-DD): "); String date = scanner.nextLine();

appointments.add(new Appointment(patient.getName(), therapistName, date)); System.out.println("Appointment booked successfully!");

}

private void viewAppointments(String name) { System.out.println("Your Appointments:"); for (Appointment appointment : appointments) if (appointment.toString().contains(name))

System.out.println(appointment);

}