

```
1 package utility;
2
3 import java.time.LocalDate;
17
18 public class Menu {
19
20
21     private Accounts doctor = new Accounts("Doctors");
22     private Accounts patient = new Accounts("Patients");
23     private Accounts admin = new Accounts("Administrator");
24
25
26     private ArrayList<CheckInForm> currentCheckIns = new ArrayList<>();
27     private ArrayList<Patient> allPatients = new ArrayList<>();
28     private ArrayList<Doctor> allDoctors = new ArrayList<>();
29
30     public Menu() {
31
32     }
33
34     public void viewMainMenu() {
35         /*
36          * TODO Create a method which creates a sign in/check in page like in
the instructions
37          */
38         Boolean active = true;
39         while(active) {
40             Scanner in = new Scanner(System.in);
41             System.out.println("Type the number for the option\n1.\tSignIn
\n2.)\tPatient Check In\n3.)\tQuit\n");
42             int option = in.nextInt();
43             in.nextLine();
44             if(option == 1) {
45                 login(in);
46             }
47             else if(option == 2) {
48                 checkIn(in);
49             }
50             else if(option ==3) {
51                 break;
52             }
53         }
54     }
55
56     private void viewPatientMenu(String username, String password, Scanner in)
{
57         /*
```

```
58      * TODO Create a method which creates a Patient menu like in the
instructions
59      */
60      Boolean active = true;
61      while(active) {
62          System.out.println("Welcome to the menu, What do you want to
do?");
63          System.out.println("Type the number for the option");
64          System.out.println("1.) View your medical records");
65          System.out.println("2.) pick up medication");
66          System.out.println("3.) Pay Medical Bills");
67          System.out.println("4.) Sign out");
68          int option = in.nextInt();
69          in.nextLine();
70          Patient patient = new Patient();
71          for(Patient p : allPatients) {
72              if(p.getUsername().equals(username) &&
p.getPassword().equals(password)) {
73                  patient = p;
74              }
75          }
76          if(option == 1) {
77              patient.printMedicalRecords();
78          }
79          else if(option == 2) {
80              patient.pickUpMedication(in);
81          }
82          else if(option == 3) {
83              patient.payMedicalBill(in);
84          }
85          else if(option == 4) {
86              return;
87          }
88      }
89  }
90  }
91  }
92  }
93  private void viewAdminMenu(String username, String password, Scanner in) {
94      /*
95      * TODO Create a method which creates a Admin menu like in the
instructions
96      */
97      Boolean active = true;
98      while(active) {
99          System.out.println("Welcome to the menu, What do you want to
do?");
```

```
100     System.out.println("Type the number for the option");
101     System.out.println("1.) Create a Doctor");
102     System.out.println("2.) Sign Out");
103     int option = in.nextInt();
104     in.nextLine();
105     if(option == 1) {
106         Admin admin = new Admin(username, password);
107         admin.createAccount(in, doctor);
108     }
109
110     else if(option == 2) {
111         return;
112     }
113 }
114
115
116 }
117
118 private void viewDoctorMenu(String username, String password, Scanner in)
119 {
120     /*
121     * TODO Create a method which creates a doctor menu like in the
122     instructions
123     */
124     Boolean active = true;
125     Doctor doctor = new Doctor();
126     for(Doctor d : allDoctors) {
127         if(d.getUsername().equals(username) &&
128            d.getPassword().equals(password))
129             doctor = d;
130     }
131     while(active) {
132         System.out.println("Welcome to the menu, What do you want to
133         do?");
134         System.out.println("Type the number for the option");
135         System.out.println("1.) Manage Waiting Room");
136         System.out.println("2.) Manage A Patient");
137         System.out.println("3.) Sign Out");
138
139         int option = in.nextInt();
140         in.nextLine();
141         if(option == 1) {
142             doctor.manageWaitingRoom(currentCheckIns,in,allPatients);
143         }
144     }
145 }
```

```
143         else if (option == 2) {
144             doctor.getPatient(in,allPatients);
145         }
146         else if (option == 3) {
147             return;
148         }
149     }
150 }
151
152 private void login(Scanner in) {
153     boolean active = true;
154     String userType;
155     while(active == true) {
156         System.out.println("What type of account are you logging into: P
(Patient), D(Doctor), P(Pharmacist), or A(Administrator)");
157
158         userType = in.nextLine();
159         if(userType.equals("D") || userType.equals("P") ||
userType.equals("D") || userType.equals("A")) {
160             //signIn(in, userType);
161             signIn(in,userType);
162             break;
163         }
164         else{
165             System.out.println("Incorrect Input");
166         }
167     }
168 }
169 }
170
171
172 private void signIn(Scanner in, String userType) {
173     /*
174     * TODO
175     * Ask for the username and password.
176     * Depending on the type of user passed in test it against either
doctor.signIn(), patient.signIn(), or admin.signIn()
177     * If true call the correct user menu method.
178     */
179
180     System.out.println("Enter username: ");
181     String username = in.nextLine();
182     System.out.println("Enter password: ");
183     String password = in.nextLine();
184     if (userType.equals("D")) {
185         if(doctor.signIn(username, password))
186             viewDoctorMenu(username, password, in);
```

```
187     }
188     else if(userType.equals("P")) {
189         if(patient.signIn(username, password))
190             viewPatientMenu(username,password,in);
191     }
192     else if(userType.equals("A")) {
193         if(admin.signIn(username, password))
194             viewAdminMenu(username, password, in);
195     }
196     else
197         System.out.println("that sign in does not exist");
198
199
200 }
201
202
203 private void checkIn(Scanner in) {
204     /*
205     * TODO
206     * Ask for patient to fill in a questioner and create a checkin obj
207     * if this patient does not exist create a new patient and add this
208     checkin obj to its current check in
209     * else add this checkin to the existing patients Current check in
210     */
211
212     CheckInForm c = new CheckInForm();
213     System.out.println("fill in a questionare: ");
214     System.out.println("First name: ");
215     String fn = in.next();
216     System.out.println("Last name: ");
217     String ln = in.next();
218     String name = fn+" "+ln;
219     Boolean existingPatient = false;
220     Patient pa = new Patient();
221     for Patient p : allPatients) {
222         if(p.getName().equals(name)) {
223             pa = p;
224             existingPatient = true;
225         }
226     }
227
228     int year = 0;
229     int month = 0;
230     int day = 0;
231     System.out.println("Enter your birth year");
232     year = in.nextInt();
```

```
233     in.nextLine();
234     System.out.println("Enter your birth month");
235     month = in.nextInt();
236     in.nextLine();
237     System.out.println("Enter your birth day");
238     day = in.nextInt();
239     in.nextLine();
240     LocalDate dob = LocalDate.of(year, month, day);
241     System.out.println("Enter your phone number");
242     String phoneNumber = in.nextLine();
243     System.out.println("Enter your gender");
244     String gender = in.nextLine();
245     System.out.println("Enter your emergency contact name");
246     String eContactName = in.nextLine();
247     System.out.println("Enter your emergency contact number");
248     String eContactNumber = in.nextLine();
249     ArrayList<String> symptoms = new ArrayList<String>();
250     System.out.println("Enter your symptoms, type \"stop\" to stop
entering symptoms: ");
251     boolean stop = false;
252     while(!stop) {
253         System.out.println("Enter a symptom");
254         String a = in.nextLine();
255         if(a.equalsIgnoreCase("stop")) {
256             stop = true;
257         }
258         else{
259             symptoms.add(a);
260         }
261     }
262     ArrayList<String> allergies = new ArrayList<String>();
263     System.out.println("Enter your allergies, type \"stop\" to stop
entering allergies: ");
264     stop = false;
265     while(!stop) {
266         System.out.println("Enter an allergy");
267         String a = in.nextLine();
268         if(a.equalsIgnoreCase("stop")) {
269             stop = true;
270         }
271         else{
272             allergies.add(a);
273         }
274     }
275 }
276     currentCheckIns.add new CheckInForm(name, dob,
phoneNumber,gender,eContactName,eContactNumber,symptoms,allergies));
```

```
277         if(!existingPatient) {
278             allPatients.add(new Patient(new CheckInForm(name, dob,
                phoneNumber,gender,eContactName,eContactNumber,symptoms,allergies)));
279             System.out.println("You do not have an account with us, create
                one.");
280             System.out.println("Enter your user name");
281             String username = in.next();
282             System.out.println("Enter your password");
283             String password = in.next();
284             patient.addAccount(username,password);
285             Patient p = allPatients.get(allPatients.size()-1);
286             p.setUsername(username);
287             p.setPassword(password);
288         }
289         else {
290             pa.setCurrentCheckIn(new CheckInForm(name, dob,
                phoneNumber,gender,eContactName,eContactNumber,symptoms,allergies));
291
292
293         }
294
295
296     }
297 }
298
```