```
 1 "D:\COLLEGE\NKU\Spring 2020 - 2021\CSC 402-001
   Advanced Programming Methods\Homeworks\hw4\cmake-
   build-debug\hw4.exe"
 2
 3 **************Welcome to the 402-Hospital App
   **************
 4            Hospital App Starting...entering debug mode
 5 Please login as System Admin and switch to debug mode
    if necessary
 6
 7 0.Exit the program
 8 1.System Admin
 9 2.Nurse
10 3.Doctor
11 4.Hospital Admin
12
13 Select your role number from above selection
14 ...entering integer input...
15 2
16 Enter your user name:
17 ...entering string input...(enter help to display
   menu)
18 Peter Petrelli
19 User entered role ID: 2, user name: Peter Petrelli
20 User logged in as Nurse
21     MENU:
22          "add" - add patient to the system
23          "switch" - switch user role
24          "help" - display menu options
25          "quit" - exit program
26 ...entering string input...(enter help to display
   menu)
27 add
28 Nurse selected: add
29 Press enter to start menu option...
30
31 Patient's First Name:
32 Wie
33 Patient's Middle Name:
34 L
35 Patient's Last Name:
```

```
36 Sie
37 Patient's Suffix:
38
39 Doctor's Name:
40 Dr Who
41 Is Patient treated ? 0 - NOT treated, 1 - treated:
42 0
43 Patient's Priority ? enter integer value (default is
   1000):
44 500
45 Patient's ailments ? - enter each ailments separated
   by a comma (ex: cough, fever 101):
46 broken leg
47 Add Next Patient ? (N/Y)
48 y
49 Patient's First Name:
50 Gemma
51 Patient's Middle Name:
52
53 Patient's Last Name:
54 Sie
55 Patient's Suffix:
56 Jr
57 Doctor's Name:
58 Dr DoLittle
59 Is Patient treated ? 0 - NOT treated, 1 - treated:
60 0
61 Patient's Priority ? enter integer value (default is
   1000):
62 1
63 Patient's ailments ? - enter each ailments separated
   by a comma (ex: cough, fever 101):
64 fever 100.8
65 Add Next Patient ? (N/Y)
66 y
67 Patient's First Name:
68 Jes
69 Patient's Middle Name:
70 Lauren
71 Patient's Last Name:
72 Sie
```

```
 73 Patient's Suffix:
 74
 75 Doctor's Name:
 76 Dr Strange
 77 Is Patient treated ? 0 - NOT treated, 1 - treated:
 78 0
 79 Patient's Priority ? enter integer value (default is
    1000):
 80 1
 81 Patient's ailments ? - enter each ailments separated
    by a comma (ex: cough, fever 101):
 82 fever 100.7
 83 Add Next Patient ? (N/Y)
 84 y
 85 Patient's First Name:
 86 Wade
 87 Patient's Middle Name:
 88
 89 Patient's Last Name:
 90 Wilson
 91 Patient's Suffix:
 92
 93 Doctor's Name:
 94 Dr Doom
 95 Is Patient treated ? 0 - NOT treated, 1 - treated:
 96 1
 97 Patient's Priority ? enter integer value (default is
    1000):
 98 1
 99 Patient's ailments ? - enter each ailments separated
    by a comma (ex: cough, fever 101):
100 broken arms, broken legs
101 Add Next Patient ? (N/Y)
102 n
103     MENU:
104         "add" - add patient to the system
105         "switch" - switch user role
106         "help" - display menu options
107         "quit" - exit program
108 ...entering string input...(enter help to display
    menu)
```

```
109 switch
110 Nurse selected: switch
111 Press enter to start menu option...
112
113 0.Exit the program
114 1.System Admin
115 2.Nurse
116 3.Doctor
117 4.Hospital Admin
118
119 Select your role number from above selection
120 ...entering integer input...
121 3
122 Enter your user name:
123 ...entering string input...(enter help to display
    menu)
124 Dr Who
125 User entered role ID: 3, user name: Dr Who
126 User logged in as Doctor
127      MENU:
128           "treat" - treat a patient in triaged order
129           "printAll" - display a patient's
    information as a report
130           "printTreated" - display the report of all
    treated patients
131           "printNext" - display the next patient to
    be treated
132           "switch" - switch user role
133           "help" - display menu options
134           "quit" - exit program
135 ...entering string input...(enter help to display
    menu)
136 printAll
137 Doctor selected: printAll
138 Press enter to start menu option...
139 ##########PATIENT TRIAGED LIST##########
140
141 ******PATIENT INFORMATION******
142 Patient ID: 1
143 First name: Gemma
144 Middle name:
```

```
145 Last name: Sie
146 Suffix: Jr
147 Doctor: Dr DoLittle
148 Treated Status: Not Treated
149 Priority: 1
150 ********************************
151
152
153 ******PATIENT INFORMATION******
154 Patient ID: 1
155 First name: Jes
156 Middle name: Lauren
157 Last name: Sie
158 Suffix:
159 Doctor: Dr Strange
160 Treated Status: Not Treated
161 Priority: 1
162 ********************************
163
164
165 ******PATIENT INFORMATION******
166 Patient ID: 1
167 First name: Wie
168 Middle name: L
169 Last name: Sie
170 Suffix:
171 Doctor: Dr Who
172 Treated Status: Not Treated
173 Priority: 500
174 ********************************
175
176 ###########END OF TRIAGED LIST##########
177
178
179 ##########PATIENT TREATED LIST##########
180
181 ******PATIENT INFORMATION******
182 Patient ID: 1
183 First name: Wade
184 Middle name:
185 Last name: WilSon
```

```
186 Suffix:
187 Ailments: broken arms
188 Doctor: Dr Doom
189 Treated Status: Already Treated
190 Priority: 1
191 *******************************
192
193 ###########END OF TREATED LIST##########
194
195     MENU:
196         "treat" - treat a patient in triaged order
197         "printAll" - display a patient's
    information as a report
198         "printTreated" - display the report of all
    treated patients
199         "printNext" - display the next patient to
    be treated
200         "switch" - switch user role
201         "help" - display menu options
202         "quit" - exit program
203 ...entering string input...(enter help to display
    menu)
204 printNext
205 Doctor selected: printNext
206 Press enter to start menu option...
207
208 ******PATIENT INFORMATION******
209 Patient ID: 1
210 First name: Gemma
211 Middle name:
212 Last name: Sie
213 Suffix: Jr
214 Doctor: Dr DoLittle
215 Treated Status: Not Treated
216 Priority: 1
217 *******************************
218
219     MENU:
220         "treat" - treat a patient in triaged order
221         "printAll" - display a patient's
    information as a report
```

```
222          "printTreated" - display the report of all
    treated patients
223          "printNext" - display the next patient to
    be treated
224          "switch" - switch user role
225          "help" - display menu options
226          "quit" - exit program
227 ...entering string input...(enter help to display
    menu)
228 treat
229 Doctor selected: treat
230 Press enter to start menu option...
231 Treating patient with ID: 1
232
233 ******PATIENT INFORMATION******
234 Patient ID: 1
235 First name: Gemma
236 Middle name:
237 Last name: Sie
238 Suffix: Jr
239 Doctor: Dr DoLittle
240 Treated Status: Not Treated
241 Priority: 1
242 ********************************
243
244 ...patient is under treatment...
245 Patient ID: 1, Gemma  Sie Jr was under care for 3
    seconds and has been successfully treated
246
247     MENU:
248          "treat" - treat a patient in triaged order
249          "printAll" - display a patient's
    information as a report
250          "printTreated" - display the report of all
    treated patients
251          "printNext" - display the next patient to
    be treated
252          "switch" - switch user role
253          "help" - display menu options
254          "quit" - exit program
255 ...entering string input...(enter help to display
```

```
255 menu)
256 printNext
257 Doctor selected: printNext
258 Press enter to start menu option...
259
260 ******PATIENT INFORMATION******
261 Patient ID: 1
262 First name: Jes
263 Middle name: Lauren
264 Last name: Sie
265 Suffix:
266 Doctor: Dr Strange
267 Treated Status: Not Treated
268 Priority: 1
269 ********************************
270
271     MENU:
272         "treat" - treat a patient in triaged order
273         "printAll" - display a patient's
    information as a report
274         "printTreated" - display the report of all
    treated patients
275         "printNext" - display the next patient to
    be treated
276         "switch" - switch user role
277         "help" - display menu options
278         "quit" - exit program
279 ...entering string input...(enter help to display
    menu)
280 switch
281 Doctor selected: switch
282 Press enter to start menu option...
283
284 0.Exit the program
285 1.System Admin
286 2.Nurse
287 3.Doctor
288 4.Hospital Admin
289
290 Select your role number from above selection
291 ...entering integer input...
```

```
292 4
293 Enter your user name:
294 ...entering string input...(enter help to display
    menu)
295 Hospital Admin
296 User entered role ID: 4, user name: Hospital Admin
297 User logged in as Hospital Admin
298     MENU:
299         "printTriage" - display the report of all
    patients in triage
300         "treatAll" - treat all patients
301         "printByDoctor - display patient names by
    doctor
302         "switch" - switch user role
303         "help" - display menu options
304         "quit" - exit program
305 ...entering string input...(enter help to display
    menu)
306 printTriage
307 Hospital Admin selected: printTriage
308 Press enter to start menu option...
309 ##########PATIENT TRIAGED LIST##########
310
311 *******PATIENT INFORMATION*******
312 Patient ID: 1
313 First name: Jes
314 Middle name: Lauren
315 Last name: Sie
316 Suffix:
317 Doctor: Dr Strange
318 Treated Status: Not Treated
319 Priority: 1
320 *******************************
321
322
323 *******PATIENT INFORMATION*******
324 Patient ID: 1
325 First name: Wie
326 Middle name: L
327 Last name: Sie
328 Suffix:
```

```
329 Doctor: Dr Who
330 Treated Status: Not Treated
331 Priority: 500
332 *******************************
333
334 ###########END OF TRIAGED LIST##########
335
336
337     MENU:
338           "printTriage" - display the report of all
    patients in triage
339           "treatAll" - treat all patients
340           "printByDoctor - display patient names by
    doctor
341           "switch" - switch user role
342           "help" - display menu options
343           "quit" - exit program
344 ...entering string input...(enter help to display
    menu)
345 treatAll
346 Hospital Admin selected: treatAll
347 Press enter to start menu option...
348 ##########Treating All Patients##########
349 Treating patient with ID: 1
350
351 ******PATIENT INFORMATION******
352 Patient ID: 1
353 First name: Jes
354 Middle name: Lauren
355 Last name: Sie
356 Suffix:
357 Doctor: Dr Strange
358 Treated Status: Not Treated
359 Priority: 1
360 *******************************
361
362 ...patient is under treatment...
363 Patient ID: 1, Jes Lauren Sie  was under care for 3
    seconds and has been successfully treated
364
365 Treating patient with ID: 1
```

```
366
367 ******PATIENT INFORMATION******
368 Patient ID: 1
369 First name: Wie
370 Middle name: L
371 Last name: Sie
372 Suffix:
373 Doctor: Dr Who
374 Treated Status: Not Treated
375 Priority: 500
376 ********************************
377
378 ...patient is under treatment...
379 Patient ID: 1, Wie L Sie  was under care for 2
    seconds and has been successfully treated
380
381 ###########All Patients are Treated###########
382     MENU:
383         "printTriage" - display the report of all
    patients in triage
384         "treatAll" - treat all patients
385         "printByDoctor - display patient names by
    doctor
386         "switch" - switch user role
387         "help" - display menu options
388         "quit" - exit program
389 ...entering string input...(enter help to display
    menu)
390 printByDoctor
391 Hospital Admin selected: printByDoctor
392 Press enter to start menu option...
393 Please enter doctor's name:
394 ...entering string input...(enter help to display
    menu)
395 Dr Who
396 #####PATIENT LIST under Dr. Dr Who#####
397
398 ******PATIENT INFORMATION******
399 Patient ID: 1
400 First name: Wie
401 Middle name: L
```

```
402 Last name: Sie
403 Suffix:
404 Doctor: Dr Who
405 Treated Status: Not Treated
406 Priority: 500
407 ********************************
408
409 ###########END OF PATIENT LIST##########
410
411
412     MENU:
413          "printTriage" - display the report of all
    patients in triage
414          "treatAll" - treat all patients
415          "printByDoctor - display patient names by
    doctor
416          "switch" - switch user role
417          "help" - display menu options
418          "quit" - exit program
419 ...entering string input...(enter help to display
    menu)
420 help
421 Hospital Admin selected: help
422 Press enter to start menu option...
423     MENU:
424          "printTriage" - display the report of all
    patients in triage
425          "treatAll" - treat all patients
426          "printByDoctor - display patient names by
    doctor
427          "switch" - switch user role
428          "help" - display menu options
429          "quit" - exit program
430     MENU:
431          "printTriage" - display the report of all
    patients in triage
432          "treatAll" - treat all patients
433          "printByDoctor - display patient names by
    doctor
434          "switch" - switch user role
435          "help" - display menu options
```

```
436            "quit" - exit program
437 ...entering string input...(enter help to display
    menu)
438 switch
439 Hospital Admin selected: switch
440 Press enter to start menu option...
441
442 0.Exit the program
443 1.System Admin
444 2.Nurse
445 3.Doctor
446 4.Hospital Admin
447
448 Select your role number from above selection
449 ...entering integer input...
450 1
451 Enter your user name:
452 ...entering string input...(enter help to display
    menu)
453 System Admin
454 User entered role ID: 1, user name: System Admin
455 User logged in as System Admin
456      MENU:
457           "add" - bulk add patients into the system
    from a file
458           "normal" - switch to normal mode (log all
    operations of the system by each user to a file)
459           "debug" - switch to debug mode (log all
    operations of the system by each user to a file)
460           "switch" - switch user role
461           "help" - display menu options
462           "quit" - exit program
463 ...entering string input...(enter help to display
    menu)
464 add
465 System Admin selected: add
466 Press enter to start menu option...
467 Enter file name:
468 patient.txt
469 Opening file: patient.txt
470 EOF before reading line input
```

```
471 Closing file input stream...
472     MENU:
473         "add" - bulk add patients into the system
    from a file
474         "normal" - switch to normal mode (log all
    operations of the system by each user to a file)
475         "debug" - switch to debug mode (log all
    operations of the system by each user to a file)
476         "switch" - switch user role
477         "help" - display menu options
478         "quit" - exit program
479 ...entering string input...(enter help to display
    menu)
480
```