



Faculty of Engineering & Technology
Electrical & Computer Engineering Department

ENCS 3130

Lab Linux

Project 1 Test Cases

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Section: 5

```
Terminal  main.sh x  main.sh (2) x  main.sh (3) x  main.sh x  +  v

-----
1
enter patient id
1300501
enter test name by its three capitilized chars
LDL
enter the date of the test
enter the year
2001
enter a month
5
2001-05
enter a result
13.9
enter a status option

-----
Select the status:
1. Pending
2. Completed
3. Reviewed

-----
1
mg/dL
record has been added to the records file
```

Figure 1: add new test case

| | main.sh | medicalTest.txt | medicalRecord.txt |
|---|---------|-----------------|---|
| 1 | | | 1300500: HGB, 2000-04, 13.5, mg/dL, completed |
| 2 | | | 1300500: HGB, 2015-03, 110.0, mg/dL, pending |
| 3 | | | 1300500: LDL, 2016-03, 13.0, mg/dL, completed |
| 4 | | | 1300500: LDL, 2005-08, 20.0, mg/dL, completed |
| 5 | | | 1300501: LDL, 2001-05, 13.9, mg/dL, pending |
| 6 | | | |

Figure 2: file affter add new test

```
main.sh  medicalTest.txt  medicalRecord.txt x
Terminal  main.sh x  main.sh (2) x  main.sh (3) x  main.sh x  +  v
mg/dL
record has been added to the records file
-----
chose an option
1.Add new medical record
2.Search for test by ID
3.Search for unnormal tests
4.Average tests values
5.update an existing test
6.delete an existing test
7.exit
-----
2
inter id
1300500
-----
Select an option:
1. Retrieve all patient tests
2. Retrieve all abnormal patient tests
3. Retrieve all patient tests in a given specific period
4. Retrieve all patient tests based on test status
5. Exit
-----
1
1300500: HGB, 2000-04, 13.5, mg/dL, completed
1300500: HGB, 2015-03, 110.0, mg/dL, pending
1300500: LDL, 2016-03, 13.0, mg/dL, completed
1300500: LDL, 2005-08, 20.0, mg/dL, completed
```

Figure 3: search all patient tests

```
Terminal  main.sh x  main.sh (2) x  main.sh (3) x  main.sh x  +  v
-----
Select an option:
1. Retrieve all patient tests
2. Retrieve all abnormal patient tests
3. Retrieve all patient tests in a given specific period
4. Retrieve all patient tests based on test status
5. Exit
-----
3
Enter the year for the beginning of the period:
2000
Enter the month for the beginning of the period:
1
Enter the year for the end of the period:
2015
Enter the month for the end of the period:
3
1300500: HGB, 2000-04, 13.5, mg/dL, completed
1300500: HGB, 2015-03, 110.0, mg/dL, pending
1300500: LDL, 2005-08, 20.0, mg/dL, completed
```

Figure 4: search by spisfic period

```
Terminal  main.sh x  main.sh (2) x  main.sh (3) x  main.sh x + v
-----
Select an option:
1. Retrieve all patient tests
2. Retrieve all abnormal patient tests
3. Retrieve all patient tests in a given specific period
4. Retrieve all patient tests based on test status
5. Exit
-----
4
enter a status option
-----
Select the status:
1. Pending
2. Completed
3. Reviewed
-----
2
1300500: HGB, 2000-04, 13.5, mg/dL, completed
1300500: LDL, 2016-03, 13.0, mg/dL, completed
1300500: LDL, 2005-08, 20.0, mg/dL, completed
```

Figure 5: search by test status

| | main.sh | medicalRecord.txt | medicalTest.txt |
|---|---------|---|-----------------|
| 1 | | 1300500: LDL, 2016-03, 13.0, mg/dL, completed | |
| 2 | | 1300501: DBP, 2001-05, 15.9, mg/dL, pending | |
| 3 | | 1300501: BGT, 2001-05, 80.0, mg/dL, pending | |
| 4 | | 1300501: DBP, 2001-05, 15.0, mg/dL, pending | |
| 5 | | 1300500: LDL, 2005-08, 30.0, mg/dL, completed | |
| 6 | | | |

Figure 6: file before update case

```
Terminal  main.sh x  main.sh (2) x  main.sh (3) x  main.sh x + v
record has been modified succesfly
-----
chose an option
1.Add new medical record
2.Search for test by ID
3.Search for unnormal tests
4.Average tests values
5.update an existing test
6.delete an existing test
7.exit
-----
5
enter patient id
1300500
enter the number of the Test you wnat to change
  1 1300500: LDL, 2016-03, 13.0, mg/dL, completed
  2 1300500: LDL, 2005-08, 30.0, mg/dL, completed
1
  1 1300500: LDL, 2016-03, 13.0, mg/dL, completed
enter a new result
15.0
record has been modified succesfly
-----
```

Figure 7: update case

| | main.sh | medicalRecord.txt | medicalTest.txt |
|---|---------|---|-----------------|
| 1 | | 1300501: DBP, 2001-05, 15.9, mg/dL, pending | |
| 2 | | 1300501: BGT, 2001-05, 80.0, mg/dL, pending | |
| 3 | | 1300501: DBP, 2001-05, 15.0, mg/dL, pending | |
| 4 | | 1300500: LDL, 2005-08, 30.0, mg/dL, completed | |
| 5 | | 1300500: LDL, 2016-03, 15.0, mg/dL, completed | |
| 6 | | | |

Figure 8: file after update case

| | main.sh | medicalRecord.txt | medicalTest.txt |
|---|---------|---|-----------------|
| 1 | | 1300500: HGB, 2015-03, 110.0, mg/dL, pending | |
| 2 | | 1300500: LDL, 2016-03, 13.0, mg/dL, completed | |
| 3 | | 1300500: LDL, 2005-08, 20.0, mg/dL, completed | |
| 4 | | 1300501: DBP, 2001-05, 15.9, mg/dL, pending | |
| 5 | | 1300501: BGT, 2001-05, 80.0, mg/dL, pending | |
| 6 | | 1300501: DBP, 2001-05, 15.0, mg/dL, pending | |
| 7 | | | |

Figure 9: file befor delete case

```

Terminal  main.sh x  main.sh (2) x  main.sh (3) x  main.sh x  +  v
-----
chose an option
1.Add new medical record
2.Search for test by ID
3.Search for unnormal tests
4.Average tests values
5.update an existing test
6.delete an existing test
7.exit
-----
6
enter patient id
1300500
enter the number of the Test you want to delete
  1 1300500: HGB, 2015-03, 110.0, mg/dL, pending
  2 1300500: LDL, 2016-03, 13.0, mg/dL, completed
  3 1300500: LDL, 2005-08, 20.0, mg/dL, completed
1
record has been deleted succesfly
-----

```

Figure 10: delete case

| | main.sh | medicalRecord.txt | medicalTest.txt |
|---|---------|---|-----------------|
| 1 | | 1300500: LDL, 2016-03, 13.0, mg/dL, completed | |
| 2 | | 1300500: LDL, 2005-08, 20.0, mg/dL, completed | |
| 3 | | 1300501: DBP, 2001-05, 15.9, mg/dL, pending | |
| 4 | | 1300501: BGT, 2001-05, 80.0, mg/dL, pending | |
| 5 | | 1300501: DBP, 2001-05, 15.0, mg/dL, pending | |
| 6 | | | |

Figure 11: file affter delte case

```
Terminal  main.sh x  main.sh (2) x  main.sh (3) x  main.sh x + v

-----
chose an option
1.Add new medical record
2.Search for test by ID
3.Search for unnormal tests
4.Average tests values
5.update an existing test
6.delete an existing test
7.exit
-----

4

Average value of HGB test: 61.75  g/dL
Average value of BGT test: 80.00  mg/dL
Average value of LDL test: 16.50  mg/dL
Not found results for SBP test
Average value of DBP test: 14.90  mm Hg
-----
```

Figure 12: avarege case

```
main.sh  medicalRecord.txt x  medicalTest.txt

1  1300501: DBP, 2001-05, 15.9, mg/dL, pending
2  1300501: BGT, 2001-05, 80.0, mg/dL, pending
3  1300501: DBP, 2001-05, 15.0, mg/dL, pending
4  1300500: LDL, 2005-08, 30.0, mg/dL, completed
5  1300500: LDL, 2016-03, 120.0, mg/dL, completed
6  1234567: DBP, 2001-01, 10.0, mg/dL, pending

Terminal  main.sh x + v

2.Search for test by ID
3.Search for unnormal tests
4.Average tests values
5.update an existing test
6.delete an existing test
7.exit
-----

2
inter id
1300500

Select an option:
1. Retrieve all patient tests
2. Retrieve all abnormal patient tests
3. Retrieve all patient tests in a given specific period
4. Retrieve all patient tests based on test status
5. Exit
-----

2
patient abnoraml tests
1300500: LDL, 2016-03, 120.0, mg/dL, completed
```

Figure 13: search for unnormal test case

```
main.sh  medicalRecord.txt  medicalTest.txt
1 1300501: DBP, 2001-05, 123.9, mg/dL, pending
2 1300501: DBP, 2001-05, 50.0, mg/dL, pending
3 1300501: DBP, 2001-05, 119.0, mg/dL, pending
4 1300500: LDL, 2005-08, 30.0, mg/dL, completed
5 1300500: LDL, 2016-03, 120.0, mg/dL, completed
6 1234567: DBP, 2001-01, 60.0, mg/dL, pending

Terminal  main.sh  main.sh (2)  main.sh (3)  +  v

-----
chose an option
1.Add new medical record
2.Search for test by ID
3.Search for unnormal tests
4.Average tests values
5.update an existing test
6.delete an existing test
7.exit
-----
3
enter test name by its three capitilized chars
DBP
1300501: DBP, 2001-05, 123.9, mg/dL, pending
1300501: DBP, 2001-05, 119.0, mg/dL, pending
-----
```

Figure 14: search for unnormal test by name of test case

```
Terminal  main.sh  main.sh (2)  main.sh (3)  main.sh  main.sh (4)  +

-----
Select an option:
1. Retrieve all patient tests
2. Retrieve all abnormal patient tests
3. Retrieve all patient tests in a given specific period
4. Retrieve all patient tests based on test status
5. Exit
-----
3
Enter the year for the beginning of the period:
2000
Enter the month for the beginning of the period:
9
Enter the year for the end of the period:
2000
Enter the month for the end of the period:
1
Invalid period
Enter the year for the beginning of the period:
```

Figure 15: error handling with search with spsefic period


```
Terminal  main.sh x  main.sh (2) x  main.sh (3) x  main.sh x  main.sh (4) x  main.sh (5) x  + v
(.venv) sh3er@sh3er-VirtualBox:~/Desktop/project1/pythonProject$ /bin/bash /home/sh3er/Desktop/p
Welcome to our Medical Test Management System

-----
chose an option
1.Add new medical record
2.Search for test by ID
3.Search for unnormal tests
4.Average tests values
5.update an existing test
6.delete an existing test
7.exit

-----
1
enter patient id
12345678
id must have seven digits
enter patient id
1234567
enter test name by its three capitilized chars
█
```

Figure 16: error handling in insert id in add new test

```
-----
enter test name by its three capitilized chars
LDLL
test name is a 3 chars capitilized word
enter test name by its three capitilized chars
LDL
enter the date of the test
enter the year
█
```

Figure 17: error handling in insert name of test in add new test

```
Terminal  main.sh ×  main.sh (2) ×  main.sh (3) ×  main.sh ×  main.sh

enter the year
20000
year must be between 2000-2024
enter the year
1999
year must be between 2000-2024
enter the year
a444
year must be between 2000-2024
enter the year
2001
enter a month
13
month must be between 1-12
enter a month
15
month must be between 1-12
enter a month
1
2001-01
enter a result
```

Figure 18: error handling in insert date in add new test

```
enter a result
12
result must be a floating point
enter a result
1
result must be a floating point
enter a result
98
result must be a floating point
enter a result
10.0
enter a status option
```

Figure 19: error handling in insert result in add new test

```
4
you must chose a number between 1-3

-----
Select the status:
1. Pending
2. Completed
3. Reviewed

-----
err
enter a status option

-----
Select the status:
1. Pending
2. Completed
3. Reviewed

-----
1
mg/dL
record has been added to the records file
```

Figure 20: error handling in insert status in add new test