

Faculty of Engineering & Technology Electrical & Computer Engineering Department

ENSC4370 Report project

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2024-2025

Menue:

Add patient:

```
Welcome to our System
1- Add new medical test
2- Search for a test by patiant ID
3- Searching for unnormal tests
4- Average test value
5- Update an existing test result
6- Delete a test
7- Exit from the program
Your choice: 1
Enter the patiant ID: 7777777
Select test name
1- Hemoglobin (Hgb)
2- Blood Glucose Test (BGT)
3- Cholesterol Low-Density Lipoprotein (LDL)
4- Blood Pressure Test (BPT)
Enter the number of the test only
_
Your choice: 1
Enter the Year of the test : 2003
Enter the Month of the test : 3
Enter the test result : 22.3
3333333: BGT, 2009-08, 15.6
4444444: Hgb, 2022-01, 33.3
2222222: BPT, 2004-06, 199.0, 133.0
2222222: BPT, 2018-09, 80.0, 80.0
3333333: LDL, 2008-12, 18.9
1234567: LDL, 2005-09, 22.0
4444444: LDL, 2008-04, 51.0
1111111: BPT, 2222-, 54.0, 54.0
1234567: Hgb, 2004-01, 23.0
6666666: Hgb, 2002-12, 22.2
7777777: Hgb, 2003-03, 22.3
```

```
3333333: BGT, 2009-08, 15.6
4444444: Hgb, 2022-01, 33.3
2222222: BPT, 2005-05, 22.2, 562.5
2222222: BPT, 2018-09, 80.0, 80.0
3333333: LDL, 2008-12, 18.9
1234567: LDL, 2005-09, 22.0
4444444: LDL, 2008-04, 51.0
1111111: BPT, 2222-, 54.0, 54.0
1234567: Hgb, 2004-01, 23.0
6666666: Hgb, 2002-12, 22.2
7777777: Hgb, 2003-03, 22.3
```

Search Retrieve all patient tests:

```
Welcome to our System
********
1- Add new medical test
2- Search for a test by patiant ID
3- Searching for unnormal tests
4- Average test value
5- Update an existing test result
6- Delete a test
7- Exit from the program
Your choice: 2
Enter the patiant ID: 2222222
**********
# Menu - Search by Patient ID
Enter your choice:
1. Retrieve all patient tests
2. Retrieve all abnormal patient tests
3. Retrieve all patient tests in a specific period
Your choice: 1
***********
2222222: BPT, 2004-06, 199.0, 133.0
2222222: BPT, 2018-09, 80.0, 80.0
**********
```

Search Retrieve ail abnormal patient tests:

```
1- Add new medical test
2- Search for a test by patiant ID
3- Searching for unnormal tests
4- Average test value
5- Update an existing test result
6- Delete a test
7- Exit from the program
Your choice: 2
Enter the patiant ID: 222222
The ID must be 7 digits only, try again...
Enter the patiant ID: 2222222
# Menu - Search by Patient ID
Enter your choice:
1. Retrieve all patient tests
2. Retrieve all abnormal patient tests
3. Retrieve all patient tests in a specific period
4. Back
**********
Your choice: 2
______
2222222: BPT, 2004-06, 199.0, 133.0
2222222: BPT, 2018-09, 80.0, 80.0
```

Search Retrieve all patient tests in a specific period:

Searching for unnormal tests:

```
Welcome to our System
*********
1- Add new medical test
2- Search for a test by patiant ID
3- Searching for unnormal tests
4- Average test value
5- Update an existing test result
6- Delete a test
7- Exit from the program
**********
Your choice: 3
*******
Select test name
1- Hemoglobin (Hgb)
2- Blood Glucose Test (BGT)
3- Cholesterol Low-Density Lipoprotein(LDL)
4- Blood Pressure Test (BPT)
Enter the number of the test only
***********
Your choice: 1
***********
4444444: Hgb, 2022-01, 33.3
1234567: Hgb, 2004-01, 23.0
6666666: Hgb, 2002-12, 22.2
7777777: Hgb, 2003-03, 22.3
**********
```

Average test value:

```
Welcome to our System
_
1- Add new medical test
2- Search for a test by patiant ID
3- Searching for unnormal tests
4- Average test value
5- Update an existing test result
6- Delete a test
7- Exit from the program
*************
Your choice: 4
************
The Average value for medical Test Hgb = 25.2
The Average value for medical Test BGT = 15.6
The Average value for medical Test LDL = 30.6
The Average value for medical Test BPT (Systolic Blood Pressure) = 93.0
The Average value for medical Test BPT (Diastolic Blood Pressure) = 71.0
```

Update an existing test result:

```
********
Your choice: 5
Enter the patiant ID: 2222222
Select test name
1- Hemoglobin (Hgb)
2- Blood Glucose Test (BGT)
3- Cholesterol Low-Density Lipoprotein (LDL)
4- Blood Pressure Test (BPT)
Enter the number of the test only
***********
Your choice: 4
2222222: BPT, 2004-06, 199.0, 133.0
2222222: BPT, 2018-09, 80.0, 80.0
Enter number of line want : 1
**********
2222222: BPT, 2004-06, 199.0, 133.0
Enter the Year of the test : 2005
Enter the Month of the test : 5
Enter Systolic Blood Pressure: 22.2
Enter Diastolic Blood Pressure: 1236.5
Not valid test result, try again ...
Enter Diastolic Blood Pressure: 562.5
***********
```

```
3333333: BGT, 2009-08, 15.6

4444444: Hgb, 2022-01, 33.3

2222222: BPT, 2005-05, 22.2, 562.5

2222222: BPT, 2018-09, 80.0, 80.0

3333333: LDL, 2008-12, 18.9

1234567: LDL, 2005-09, 22.0

4444444: LDL, 2008-04, 51.0

1111111: BPT, 2222-, 54.0, 54.0

1234567: Hgb, 2004-01, 23.0

6666666: Hgb, 2002-12, 22.2

7777777: Hgb, 2003-03, 22.3
```

Delete a test:

```
3- Searching for unnormal tests
5- Update an existing test result
6- Delete a test
7- Exit from the program
Your choice: 6
Enter the patiant ID: 3333333
Select test name
1- Hemoglobin (Hgb)
2- Blood Glucose Test (BGT)
3- Cholesterol Low-Density Lipoprotein (LDL)
4- Blood Pressure Test (BPT)
Enter the number of the test only
Your choice: 2
 **********
3333333: BGT, 2009-08, 15.6
Enter number of line want : 1
3333333: BGT, 2009-08, 15.6
**********
4444444: Hgb, 2022-01, 33.3
2222222: BPT, 2005-05, 22.2, 562.5
2222222: BPT, 2018-09, 80.0, 80.0
3333333: LDL, 2008-12, 18.9
1234567: LDL, 2005-09, 22.0
4444444: LDL, 2008-04, 51.0
1111111: BPT, 2222-, 54.0, 54.0
1234567: Hgb, 2004-01, 23.0
6666666: Hgb, 2002-12, 22.2
777777: Hgb, 2003-03, 22.3
```

```
3333333: BGT, 2009-08, 15.6

4444444: Hgb, 2022-01, 33.3

4444444: BPT, 2004-06, 199.0, 133.0

4444444: BPT, 2018-09, 66.0, 88.0

4444444: LDL, 2008-12, 18.9

4444444: LDL, 2005-09, 22.0

4444444: LDL, 2008-04, 51.0

111111: BPT, 2222-, 54.0, 54.0

1234567: Hgb, 2004-01, 23.0
```

Exit from the program: