



Department of Electrical and Computer Engineering

Linux Lab

ENCS 3130

Summer Course 2023/2024

Project 2

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Medical Record File:

1) Add new medical test:

```
9. EXIT
Enter your choice: 1
Enter test name: Hgb
Enter minimum range (press enter to leave it empty): 10
Enter maximum range (press enter to leave it empty): rge
Invalid input. Please enter a valid number for the upper bound.
Enter minimum range (press enter to leave it empty): 10
Enter maximum range (press enter to leave it empty): 13
Enter unit (e.g., g/dL): g/dL
Enter turnaround time (DD-hh-mm): 02-22df
Invalid turnaround time format. Please enter time in the format 'DD-hh-mm'.
Enter turnaround time (DD-hh-mm): 03-09-11
Test 'Hgb' added successfully.
```

Added successfully:

```
Hemoglobin (Hgb), > 13.8, < 17.2, g/dL, 00-03-04
Blood Glucose Test (BGT), > 70.0, < 99.0, mg/dL, 00-12-06
LDL Cholesterol Low-Density Lipoprotein (LDL), > None, < 100.0, mg/dL, 00-17-06
Systolic Blood Pressure (Systole), > None, < 120.0, mm Hg, 00-08-04
Diastolic Blood Pressure (Diastole), > None, < 80.0, mm Hg, 00-10-00
Hgb, > 10, < 13, g/dL, 03-09-11
```

2) Add new medical record:

```
Please select an option: 2
Enter the patient ID: ergreg
Invalid input. Please enter a valid integer.
Enter the patient ID: 1221005
Patient ID 1221005 added successfully.
Enter the test name from the list above: grfge
Test not found.
Enter the test name from the list above: Hemoglobin (Hgb)
Enter the date and time of the test (YYYY-MM-DD hh:mm): rgerdg
Invalid date/time format. Please enter in 'YYYY-MM-DD hh:mm' format.
Enter the date and time of the test (YYYY-MM-DD hh:mm): 2024-01-01 08:00
Enter the result value: 14.0
Enter the status (Pending, Completed, Reviewed): Reviewed
Records saved successfully to medical_records.txt.
Record for patient ID 1221005 added successfully.
```

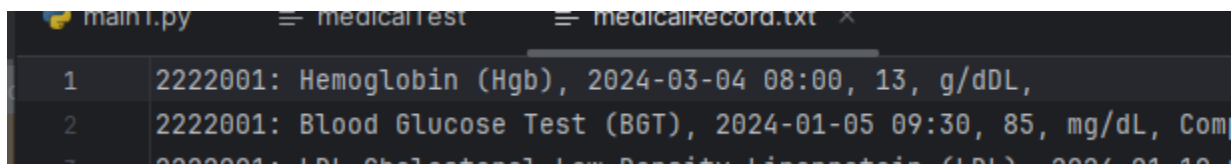
Added successfully to the file:

12	2222004: LDL Cholesterol Low-Density Lipoprotein (LDL), 2024-04-15 14:50, 120, mg/dL, Pending
13	2222005: Diastolic Blood Pressure (Diastole), 2024-05-01 08:00, 78, mm Hg, Completed, 2024-05-01 18:00
14	2222005: Blood Glucose Test (BGT), 2024-05-05 09:10, 92, mg/dL, Completed, 2024-05-05 21:16
15	2222005: Hemoglobin (Hgb), 2024-05-10 07:20, 15.0, g/dL, Pending
16	1221005: Hemoglobin (Hgb), 2024-01-01 08:00, 14.0, g/dL, Reviewed,

3) Update patient record:

```
Please select an option: 3
Enter the patient ID: wrgwer
Invalid input. Please enter a valid integer.
Enter the patient ID: 2222001
Enter the test name from the list above: Heasfasf
Test not found.
Enter the test name from the list above: Hemoglobin (Hgb)
Enter the date and time of the test (YYYY-MM-DD hh:mm): 2024-03-04
Invalid date/time format. Please enter in 'YYYY-MM-DD hh:mm' format.
Enter the date and time of the test (YYYY-MM-DD hh:mm): 2024-03-04 08:00
Enter the new result value (leave blank to skip): 13
Enter the new status (Pending, Completed, Reviewed) (leave blank to skip):
```

update patient successfully:



1	2222001: Hemoglobin (Hgb), 2024-03-04 08:00, 13, g/dDL,
2	2222001: Blood Glucose Test (BGT), 2024-01-05 09:30, 85, mg/dL, Com
3	2222001: LDL Cholesterol Low Density Lipoprotein (LDL), 2024-01-10

4) Update medical test:

```
9. Exit
Please select an option: 4
Enter the name of the test: Hemoglobin (Hgb)
Would you like to update the normal range? (yes/no): yes
Enter the new unit (leave blank to skip): mm
Enter the new turnaround time (leave blank to skip): 00-12-06
Test 'Hemoglobin (Hgb)' not found.

Medical Test Management System
1. Add new test
2. Add a new test record
```

```
main1.py  medicalTest ×  medicalRecord.txt
1 Hemoglobin (Hgb), > 13.8, < 17.2,mm, 00-12-06
2 Blood Glucose Test (BGT), > 70.0, < 99.0, mg/dL, 00-1
3 LDL Cholesterol Low-Density Lipoprotein (LDL), > None
```

5) Filter tests:

```
Enter your choice: 5
Filter tests by criteria.
Leave input blank to skip a criterion.
Enter patient ID to filter by (7 digits): 1300500
Enter test name to filter by:
Filter by abnormal results? (yes/no):
Enter start date (YYYY-MM-DD) to filter by:
Enter end date (YYYY-MM-DD) to filter by:
Enter status to filter by (pending/completed/reviewed): reviewed
No tests found matching the criteria.
```

6) Generate medical summary report

```
Enter your choice: 6
Enter patient ID to filter by (7 digits):
Enter test name to filter by: ldl
Filter by abnormal results? (yes/no):
Enter start date (YYYY-MM-DD) to filter by:
Enter end date (YYYY-MM-DD) to filter by:
Enter status to filter by (pending/completed/reviewed):
Medical Summary Report:
Minimum Test Value: 102.0
Maximum Test Value: 200.0
Average Test Value: 131.75
Minimum Turnaround Time: 20.0 minutes
Maximum Turnaround Time: 20.0 minutes
Average Turnaround Time: 20.0 minutes
```

7) Export records:

```
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2. Add a new test record
3. Update patient records
4. Update tests
5. Filter tests
6. Generate summary reports
7. Export records to CSV
8. Import records from CSV
9. Exit
Please select an option: 7
Enter the name of the CSV file to export to: fadi.CSV
Records exported successfully to fadi.CSV.

Medical Test Management System
1. Add new test
```

8) Import records:

```
6. Generate summary reports
7. Export records to CSV
8. Import records from CSV
9. Exit
Please select an option: 8
Enter the name of the CSV file to import from: maysa.CSV
Error importing records from CSV: [Errno 2] No such file or directory: 'maysa.

Medical Test Management System
1. Add new test
2. Add a new test record
3. Update patient records
4. Update tests
5. Filter tests
6. Generate summary reports
7. Export records to CSV
8. Import records from CSV
9. Exit
Please select an option: 8
Enter the name of the CSV file to import from: fadi.CSV
Records saved successfully to medical_records.txt.
Record for patient ID 1221005 added successfully.
Records imported successfully from fadi.CSV.
```

9) Exit

```
8. Import records from CSV
9. Exit
Please select an option: 9

Process finished with exit code 0
```