

Course Project

Student Medical Services

The aim of this project is to manage patients' medical information and illness situation in a clinic.

Description:

Patients will have two types of information in our system:

Patient Personal Information:

- Name: First, Last
- Age
- Date of Birth
- Marital Status
- ID Number

Patient Medical Information:

- Disease
- Diagnoses
- History of visits
- Medication prescribed

System Functionality:

- addPat: to add a new patient to the system, with personal and medical information
- updatePatInfo: to update patients information
 - user should choose which information to update.
- Search: by last name, ID number, or disease – the user chooses one to search with.
- display: all patients (a list of names, IDs, and birthdays)
- sort: to sort patients by last name
- delete: to delete a patient completely from the system
- visitHistory: to display a report of patients visits with dates ,diagnoses, and medications at each visit.
- exit: to terminate the program

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Programming 1

CSCI2411

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Project Progress Phases:

Phase 1:

In this phase you are required to code the system interface, where all the above options are displayed to the user. You may not implement any functionality in this phase.

Phase 2:

After phase 1, you have to ask a user to choose one option from the list of options displayed in the interface. When a user chooses an option, a sentence should be displayed to him explaining what this option does. The system should continue this process until user chooses to **exit** the program. At this point, the program must terminate.

Phase 3:

Here you begin the real work. Start to implement the **addPat** function. When this function is executed, user is asked to enter patient's information. It is your choice how to store that information. However, the system should be able to store the information of as many patients as the user wishes. Also in this phase you will implement the **delete** function. Deletion is accomplished using the ID number.

Phase 4:

You will code the **updatePatInfo** function. User should have the choice of whether to update personal information or medical information or both. Also you may implement the **display** function which displays its results as a list.

Phase 5:

In this phase you need to program the **search** function. User should be free to customize his/her search; meaning that user can search with last name or ID or disease. In addition you may implement the **sort** function

Phase 6:

Last function you will implement is the **visitHistory**. Using the ID , this function should return a report of that patient's visits. that function can show the diagnoses of the patient on each date and the medication prescribed at that visit.

Phase 7:

If you did not use files in the previous phases, then you have to repeat phase 3 through phase 6 using files. It is recommended that each patient should have a separate file, also if you can each patient should have a separate directory that contains all his data.