

CS234 Project part 1

Name : Magane Tamandja

Project part 1

Emergency room reception data collection and retrieval.

Context:

This program is designed to be used by the front-desk person at a walk in an Emergency Room (ER). It's aim is to record statistical data of anyone who walks-in for actuaries to calculate interest premiums.

Disclaimer:

The exact structure of the code is subject to change. This is the best attempt to write the code. We will do our best to stick to this structure unless there is a more beneficial way.

Description

This program allows providers to create patient profiles, store these profiles persistently. This program allows providers to edit patient profiles. This program makes use of multiple windows for intuitiveness. And features a search tool and documentation.

The program will possess 3 main windows and miscellaneous windows will be added as necessary.

- Front page
- Account Creator/ Editor
- Report page

The Front page will vastly inherit the attributes of the Report page.

Account Creator will allow for adding, deleting or modifying patient's

- Name
- Date of birth
- Injury Location
- Gender
- Incident type
- wait time(in hours)
- state of claim
- Nurse shift
- Occupation
- insurance deductible
- date of incident

The report page will display all patient's information and will allow for a search feature.

The search feature will be limited to the patient ID and will allow for partial search. This means that we don't need to know the entire client ID and will still be able to find it.

The program also features inherited classes from the report page and will print other types of report. For example patients within the same age group report ect..

For ease of use, the reports generator and client information editor will be located in a menu section of the front page.

Internal structure

The class person can be considered one of the most fundamental classes , it provides date of birth gender and occupation. These can be inherited later by most every other class if needs be.

The class patient has the following entity: Patient number, Insurance Premium, Insurance deductible, Injury Location. A patient is formed with a person. An incident only happens to a patient

The class incident is a parent class of Patient and is independently recorded.

The class Address is inherited by the class person and incident

The class Nurse is always a person but can also be a patient and self-care (for simplicity)

The class Visit is always associated with a person and track the time they spent at the ER

A patient may have an emergency contact. The class Emergency contact is a child of the class person.