



DEBRE BIRHAN UNIVERSITY

COLLEGE OF COMPUTING

DEPARTMENT OF COMPUTER SCIENCE

Course : Selected Topic

Selected Topic Group Assignment

Title: Health Centers Location and Health Information Provider System

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## 1. Introduction

Health information is the most essential thing in the world. When we say health, we are talking about both physical and psychological wellness. Health information provider system provides a simple, secured and computerized way for maintaining disease information (name, cause, some description about the Disease, transmission, mechanism etc.), pregnancy tips information (Exercise to do and not to do during pregnancy, food to eat and not eat during pregnancy and their problem etc.), consultation (like psychological and health related advice), hospital information (location, emergency and specialization area).

Health information provider system deal with all kind of disease detail information, hospital information, first aid information, pregnancy tips information, consultation.

## 2. Objective

The objective of this project is to develop computerized system that manage Health information provider system.

## 3. Existing System

### 3.1 Overview

Health information is provide from an individual to another individual. This approach is not precise, unreliable, and sometimes it is biased. Because of this, our society did not get reliable information on time.

There is no collected health information. Therefore, it takes too much time and sometimes cost to identify and get health information.

The current existing system generally works on manually. This leads to some difficulty to get reliable health related information service and consultation.

### 3.2 Users/Actors of the system:

- Health Expert: - health Expert provide health related information, disease and first aid information to the patient orally.
- User: user can get information, which is provided by the health centre. They can get hospital information and their location, first aid service, pregnancy tips, consultation.

## 4. Proposed System

### 4.1 Overview

The main aim of our project is to develop and implement a web based health information and guidance that integrate with database on the server.

- ✓ The new system provides health related information's, path of the health centre from current user location, first aid assistance, pregnancy tips easily.
- ✓ The new system handling health related information much easier and flexible.
- ✓ The new system creates awareness to its users by providing different kinds of tips about health problems.

## 4.2. Functional requirement

The functional requirements of the system concern about the major activities that the system has to perform. Functional requirements describe the functionality or service provided by the new system. Some of them are -

- ✓ Add/ Update/ View//Delete disease information
- ✓ Add/ View/ Update/Delete health centre information
- ✓ Add/ View/ Update/Delete first aid information
- ✓ Providing health center location
- ✓ Give Health related tips or consultation

## 4.3. Use case model

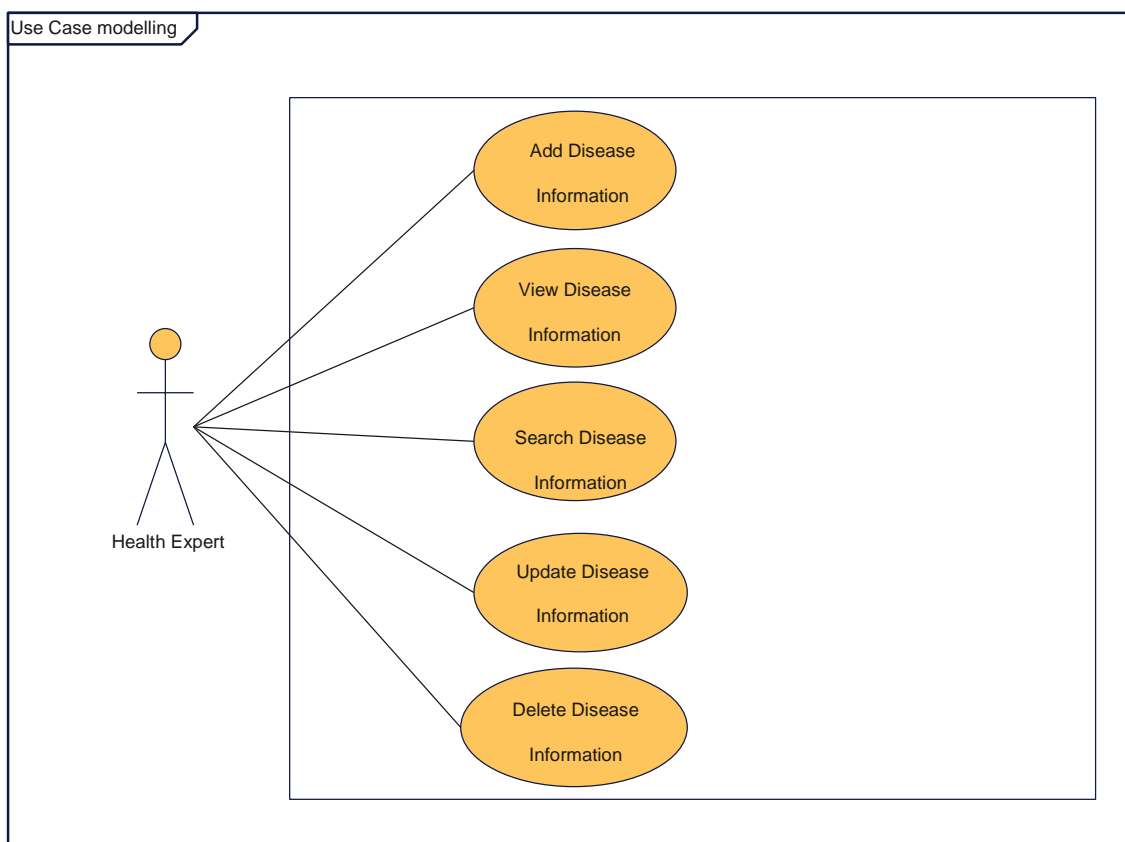


Figure 1: Use case model

## 4.5. Class Diagram

Class diagram provide an over view of target system by describing the object and classes inside the system and the relationship between them

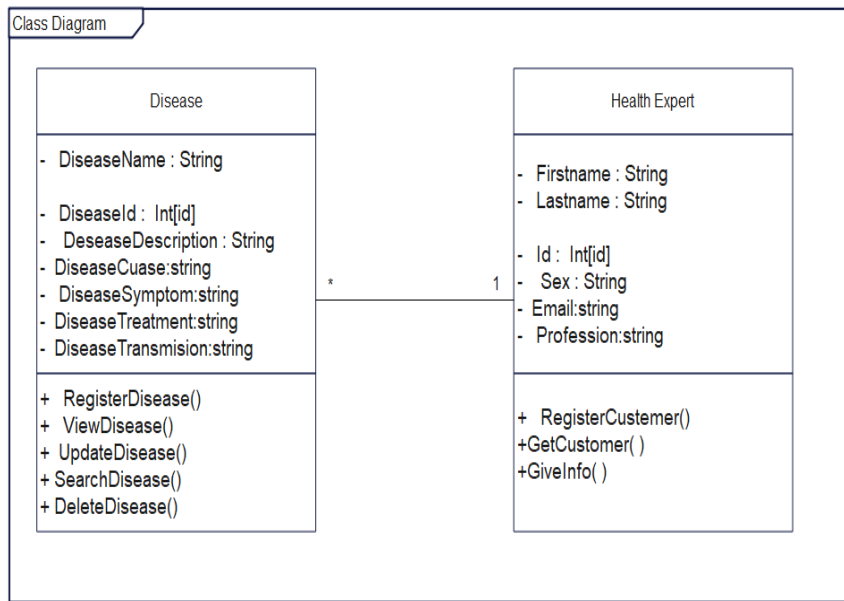


Figure 2: Class Diagram

#### 4.6. Database Design

It is the process of producing a detailed data model of database. This data model contains all the needed logical and physical design chooses and physical storage parameters needed to generate a design in a data definition language, which used to create a database. A fully attributed data model contains detailed attributes for each entity. The following diagram talks about the overall relational database management system of the proposed system.

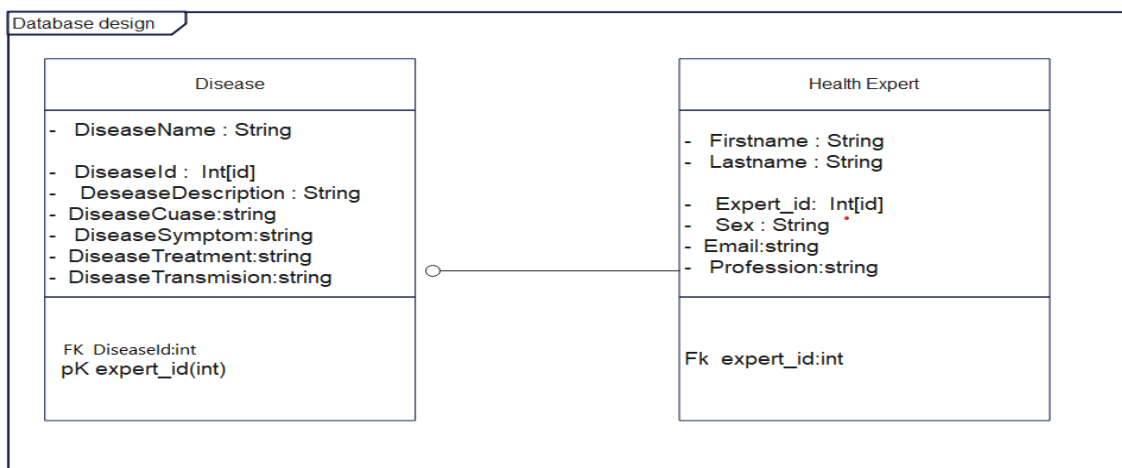


Figure 3: Database Design

#### 4.7. User Interface mock-up

It is the design of computers, machines, mobile communication devices, software applications, and websites with the focus on the user's experience and interaction. The goal of user interface design is to make the user's interaction as simple and efficient as possible. Some user interface designs in the proposed system looks like-

The mock-up shows a web browser window titled "A Web Page". The browser's address bar is empty. The main content area contains a registration form with the following fields and labels:

- name
- ID
- descriptions
- cause
- symptoms
- treatments
- transmission

Each label is followed by a text input field. Below these fields is a "Register" button. The browser window has a standard toolbar with back, forward, close, and home icons, and a search icon in the address bar.

Figure 4:New Disease information Registration form