

North South University

CSE 299: Junior Design Project

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**Find a Doc**

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1. **Introduction:**

“Find a Doc”, is a web application which lets you find a doctor appropriate for your specific condition. There’s a big gaping hole in the current market where, when people get sick they don’t know what to do, many go to the doctors they have known for a while but they might not be the perfect person to visit and people end up paying their time and many, and many times the doctors would prescribe medicine instead of referring to an appropriate Doctor who specializes in that field. So this web application helps you cut the middle man and save you time, money and any risk associated with waiting long enough to visit the person who can make a better diagnosis.

**1.1 Purpose:**

The purpose of this project is to reduce the amount of risk associated with not being able to visit an appropriate doctor at the right time. It also aims to reduce the expense of time and money.

**1.2 Intended Audience:**

The intended audience is anyone who is looking for a doctor for themselves or a loved one. But if it were to be narrowed down, then people who are good with tech and have to take responsibilities in their day to day life, so anyone from the age of 17 and above would be the ideal target audience.

**1.3 Project Scope:**

This system provides a very well sorted out environment which abstracts a lot of unnecessary information and helps reduce time, efficiency and discrepancies. Once the people find this application it will help them in various aspects, considering that millennials tend to do a lot of research for themselves, this platform will help them narrow down their search and find an appropriate doctor or solution.

1. **Overall Description:**

The web application will have a front page where there will be an option where a user can click in and it will provide a bunch of options to choose from to tell the system what type of disease they may have. If the user is unsure then there will also be a symptom checker which will help them narrow down to what disease they may have, then the system will spit out a bunch of doctor’s profile closest to their location, and they can click on the profile and set up an appointment.

**2.1 User Classes and Characteristics:**

Physical actors:

User: Users will be able to login in and look for a doctor.

Doctor: A doctor can log in and check their appointments and patient’s history if there are any.

System actors:

Client – The client actor will connect with the server and fetch data and make appropriate changes.

Server and Database – The Server will help connect with the database and the database will store data.

**2.2 Operating Environment (Web Application):**

It can run on any modern OS with an internet connection because it’s a web application.

**2.3 Design and Implementation constraints:**

The constraint with the implementation is that when the customers create an appointment, how will the system manage these appointments for the doctors because they may have prior appointments from other sources, one solution is to create a system for the doctors to manage all their appointments from all sources, or just leave the management portion to them.

1. **Feature List/ Functional Requirements:**

* Login/Logout: Users will be able to register with their details (name, phone number) and look for doctors. Doctors will be able to register and provide their necessary information, for instance, name, their respective medical degrees, their practicing chamber address or the hospital name and address. Once they verify about their degree, there will be a sign (a half moon) beside their name in their profile.
* Symptom checker: Registered users can log in, and input their symptoms. The user can tick on the box next to each symptom on the list of symptoms and if a symptom is not listed, then the user can tick on “others” and specify the symptom they are experiencing. The symptom will then be matched with a disease and the user will be referred to doctors of the specialization according to the symptoms. For example, if someone experiences chest pain, high blood pressure, severe headache, irregular heartbeat etc, he/she will be referred to a list of cardiologists with their ratings.
* Set Appointments with doctors: Once logged in, the user can set an appointment with their preferred doctor, or with a suggested doctor. User can search for a doctor by the doctor’s name or they can search for a specialized field, for example, medicine or cardiology, and then choose from the list of doctors that appears as the search result. The user can then set an appointment on their preferred time with the doctor.
* Rate/Review Doctors: Users can login and give reviews about doctors after consultation. The users will be able to rate and also write a short review on the doctor they consulted. Users can rate a doctor with 1 to 5 stars and write a short review explaining their choice, for instance, if a patient had to experience long waiting hours and wrong treatment from a doctor, then the patient can rate and write a review on how he/she received a wrong treatment. Others can see the reviews and the ratings will be used to create a doctor ranking for each specialization.
* Manage appointments: Doctors can provide a list of timings during which they are willing to take appointments of patients. Users can see the timings available for a particular doctor and pick their suitable timings accordingly.

1. **Monetization Plan:**

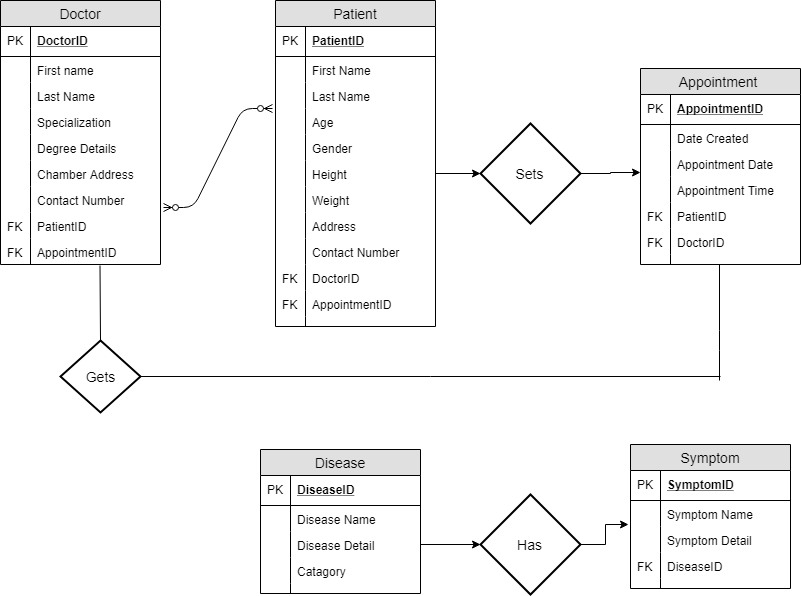
The initial monetization plan is advertisement. Using advertising networks and also products like Google AdSense could be used by the application. In addition, the doctors can advertise to put their names on top of the list of search results, but that will be marked as an advertisement. Furthermore, 5% of the doctor’s fee will be retracted when a patient visits a doctor by setting an appointment through Find a Doc.

1. **Road Blocks:**

The first road block we faced was during the week of 26th February to 4th March, when we faced PostgreSQL compatibility issues with hosting. Hence, we were unable to launch it in live server and after trying and failing several times, we decided to shift to SQL Lite.

The biggest road block we faced and continued facing from the initial days of developing the app is the commit problem. Every single one of our group members faced the commit problem. We were unable to commit from our respective GitHub Desktop, and hence even after completing our share of tasks for the week, we couldn’t commit every week. The other problem that we encountered was that GitHub Desktop of one of our group members kept on showing JavaScript error suddenly. This also hindered our work and we were not able to proceed as the member couldn’t commit her share of work for the week even after completing it.

1. **ER Diagram/ Database Schema:**

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