

CSC 340-01: Software Engineering
Software requirements specification
The healthcare consulting website

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1.Introduction

The document will show the overview for the website and show the detail for the website function.

1.1 Purpose

The purpose of this document is to show the requirements of the website design, the objects of the service and the detailed instructions of the website design requirements.

This article explains the purpose of the site, the object of the service, the interface, and the functionality. After users sign up, they can quick match personal favorite doctor for health consultation according to their needs.

1.2 Scope

The website serves for the all human been. Through this website, it will provide people's health consultation for health condition (not including the emergency department). this project will give professional doctors' advice based on the information in the future and the communication with patients. For the advantage, Based on the website, the project can consult more registered doctors who are good at different medical projects, not just in one area. Also,the website is free for the user. Users can choose more professional services according to their illness status. For example, internal medicine, surgery, dermatology, etc.

2.overall description

The system will contain an application that accesses server data used to store customer account information in the server. This application will collect customer information stored in the database account, or create contains information needed for a new account, allowing the user to (the doctor) in before returning to account (new or existing accounts) adjustment, correct or modify the relevant account information to the database, in addition, the administrator can delete and ban the doctor's and user's account through the manger account

2.1 product perspective

This website product is designed for medical consultation. The product will be deployed to the site and all users (doctors, patients, administrators) will use the site to access the product. The site will be the primary user interface where users can operate on all the features provided.

To use the product, the user needs to register through the web interface. Every time a new user registers, all the required data needs to be created in the database. Later, users will be able to login and exit the account at any time.

2.2 Product function

the website will perform several major functions. The most important thing is to take immediate control of the patient's health and handle non-urgent situations with ease. If users use our website, doctor can grasp the basic health condition of patients and provide professional advice. After completing the registration of personal information on the user registration website, the user only needs to browse the interface and select the required medical consultation service. Clicking on the doctor's profile picture opens the link to look for a one-to-one chat, which

allows users to consult with their doctor. In addition, after consulting on the website, the doctor will prove a medical record as an assistant of the hospital. Facing general and non-acute diseases can be consulted on the website, treated directly or recommended for treatment in nearby hospitals.

2.3 User characteristics

There are three types of doctor accounts that interact with websites, management accounts, and user accounts. All three user types have a system for different purposes and their own specific access.

User accounts will have access to archived body information that is added, modified, and stored in the context of a database account's purpose for dealing with doctors.

The doctor account will have the opportunity to get added, modified, and stored in the database of user accounts including comments.

Administrative accounts will have access to all user accounts that can be accessed as well as the ability to delete and ban account to the website.

3 Specific requirements

1) Information recoding

- a) The information for the record must contain optional fields for the context.
- b) Information should be marked according to the person entering the data

2) Website Requirements

- a) The website should allow a user to login/signup

- b) The website should allow a user to logout
- c) The website should allow a user to update the profiler
- d) All information should be viewable on the website
- e) All information should be updatable on the website
- f) The website should allow a user to download a backup of their medical information
- g) The website should support one to one chat for patient and doctor.

3) Server requirements

- a) The right combination of username and password is required when a user logs in.
- b) Users must be logged in to view or edit any medical information.
- c) medical records cannot be edited and can only be replaced with a new version of health provider privileges.
- d) Only the manger have the right to add and delete doctor profile.
- e) Doctor can change the own file through the manger apply.

4) Security requirement

- a) Each account should have its own independent account and password, and the same account cannot be registered repeatedly
- b) For the doctor account, the system will check whether the doctor has a formal medical license through API.If not, the system will reject the account registration.
- c) For malicious users and fake doctor accounts, the administrator has the ability to directly delete and disable the user login.

5) User Accounts

- a) Each account must have a separate identification account.
- b) Data must always be relevant to the account and users cannot view data they do not have.
- c) basic information that must be stored

- i. username
- ii. Password
- iii. Address
- iv. The phone number
- v. First name
- vi. last name
- vii. Date of birth
- viii. Gender
- ix. Tag

6) Doctor Account

- a) Basic Information
 - i. Username
 - ii. Password
 - iii. Doctor license
 - iv. Doctor ID

4. Modeling Requirements

Use case 1: doctor registration with a doctor's license entered incorrectly.

Actor:

The doctor

API checker

Prerequisites (one or more) :

A doctor with an official license applies for registration,

There is a professional API to check the doctor's name and license,

According to the survey, this doctor's license can only be displayed in digital form.

Use case:

First, the doctor logs in the website, clicks on the sign up page, and click “i’m a doctor” option. the doctor should provide valid and accurate login password, user name, doctor license number, first name and so on according to the system prompts. If the name provided by the doctor does not match the doctor's license number, the system will show a message “a matching name and doctor's license doesn't match”. If the license number provided by the doctor does not exist, the system will tell the doctor that “ the doctor not been found”. if the sign up is fail, it will return back to the login page in 5 seconds. On the other hand, the name box only accepts digital, and the doctor's license box only accepts Numbers. if the doctor type wrong form, the input box will clean all wrong input information immediately.

Use case 2: administrators can delete user files and ban user account.

Actor:

The administrator

The doctor

The user

Prerequisites:

The administrator has his own administrator account.

Doctors have their own accounts.

Users have their own accounts.

Use case :

The administrator of the website logs in through the website, provide accurate username and password. The administrator can select a doctor or patient from the menu provided. The administrator can choose to manage the account from both “delete” and “ban” options. The site then operates back to the database and updates the database information.

Use case 3: The user quickly match the doctor

Actor:

The doctor

The user

Prerequisites (one or more) :

Proof that the user already has an existing account and identity (username and password, first and last name).

Doctors have a complete accounts

The doctor has logged into the account and is working online.

Users first login to their account login screen, providing a valid and accurate login password and username. Once they are logged in, they select the option "account" to select the medical subject

to be consulted from the profile, then go back to the home page and click "quick match", which will show all the doctors who are good at this subject user can choose. three option will show for the doctor : "more information", "send email", "join". Then Click "join" and the user will start a chat with the doctor. after finish medical.

Use case 4 : The user sign up for a new account

Actor:

user

Prerequisites (one or more) :

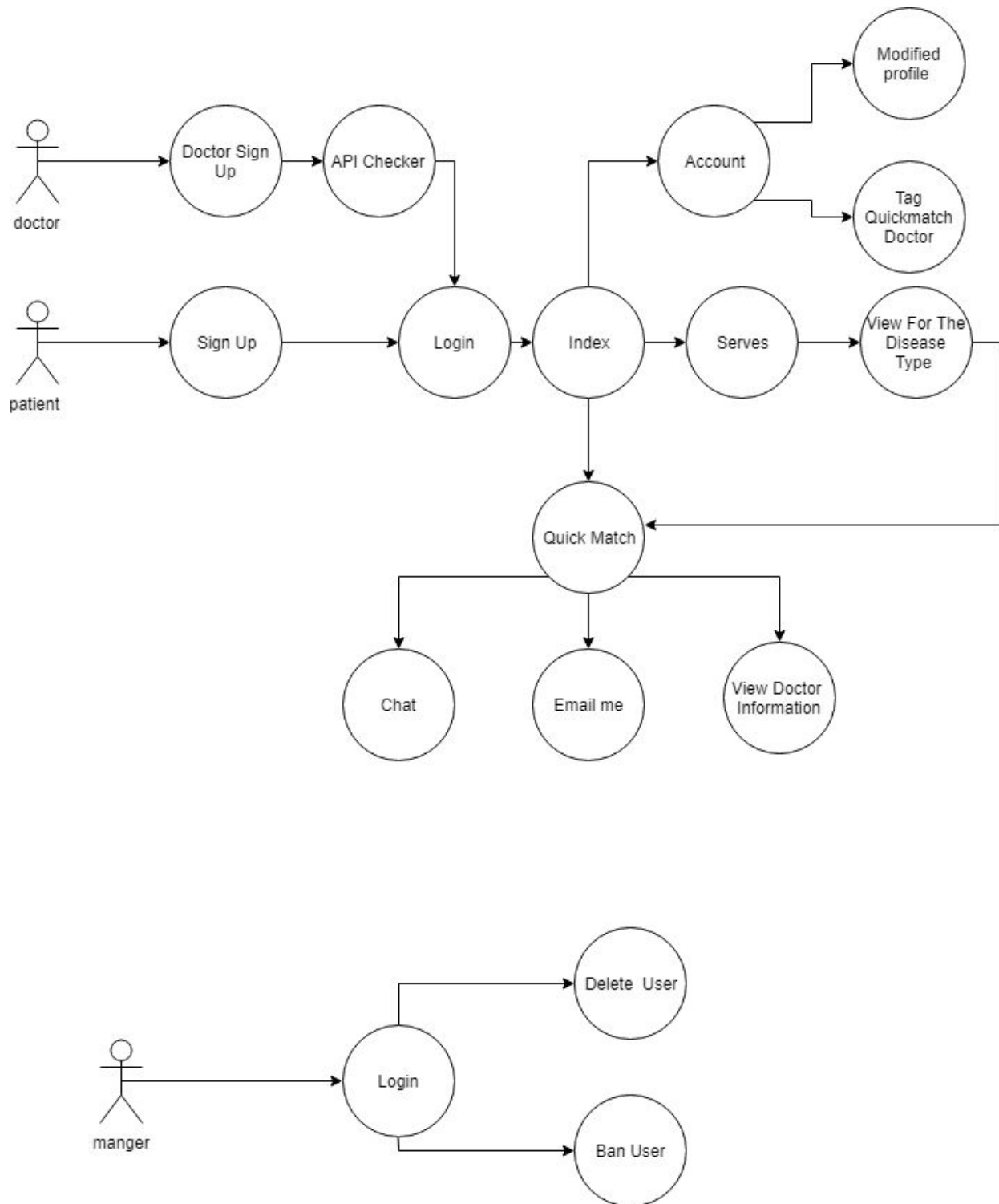
The user doesn't have an account

The user should use a new username (no repeat username) and confirm a correct password

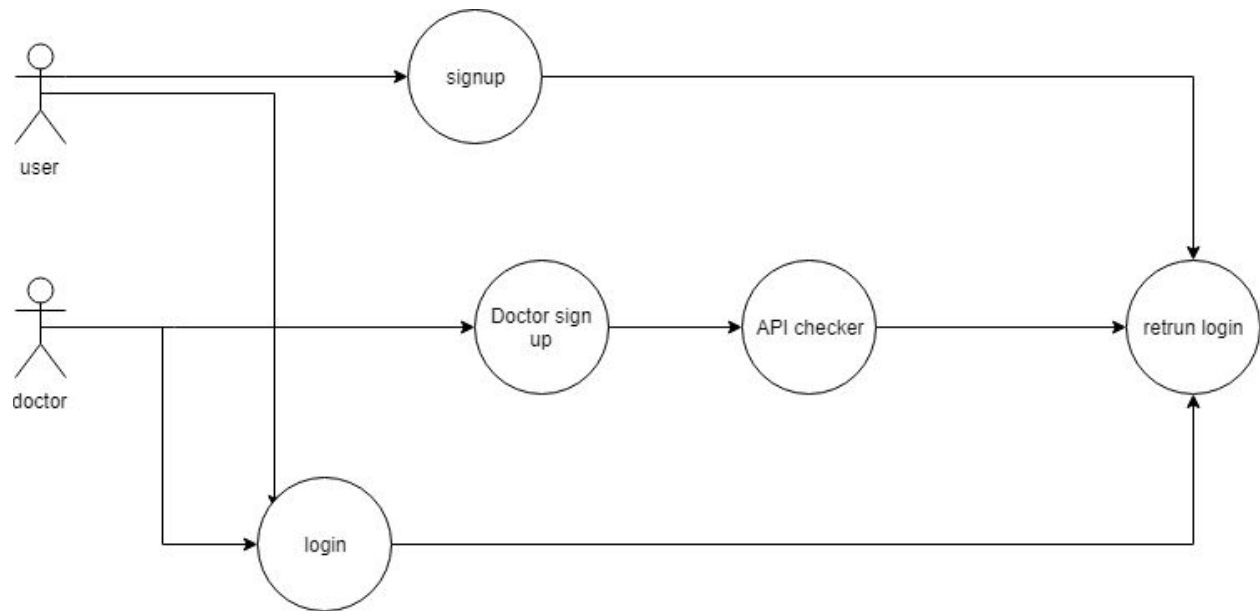
user case:

Users go to the website and select the "login in" button.after enter the login page, Enter a new username, password, and confirm the password. After successful registration, jump back to the login page, User enter the username and password to login the website, jump back to the main page. User click into the profile, and modify and add personal information. At the same time, the user can modify the Tag of the disease in the file.

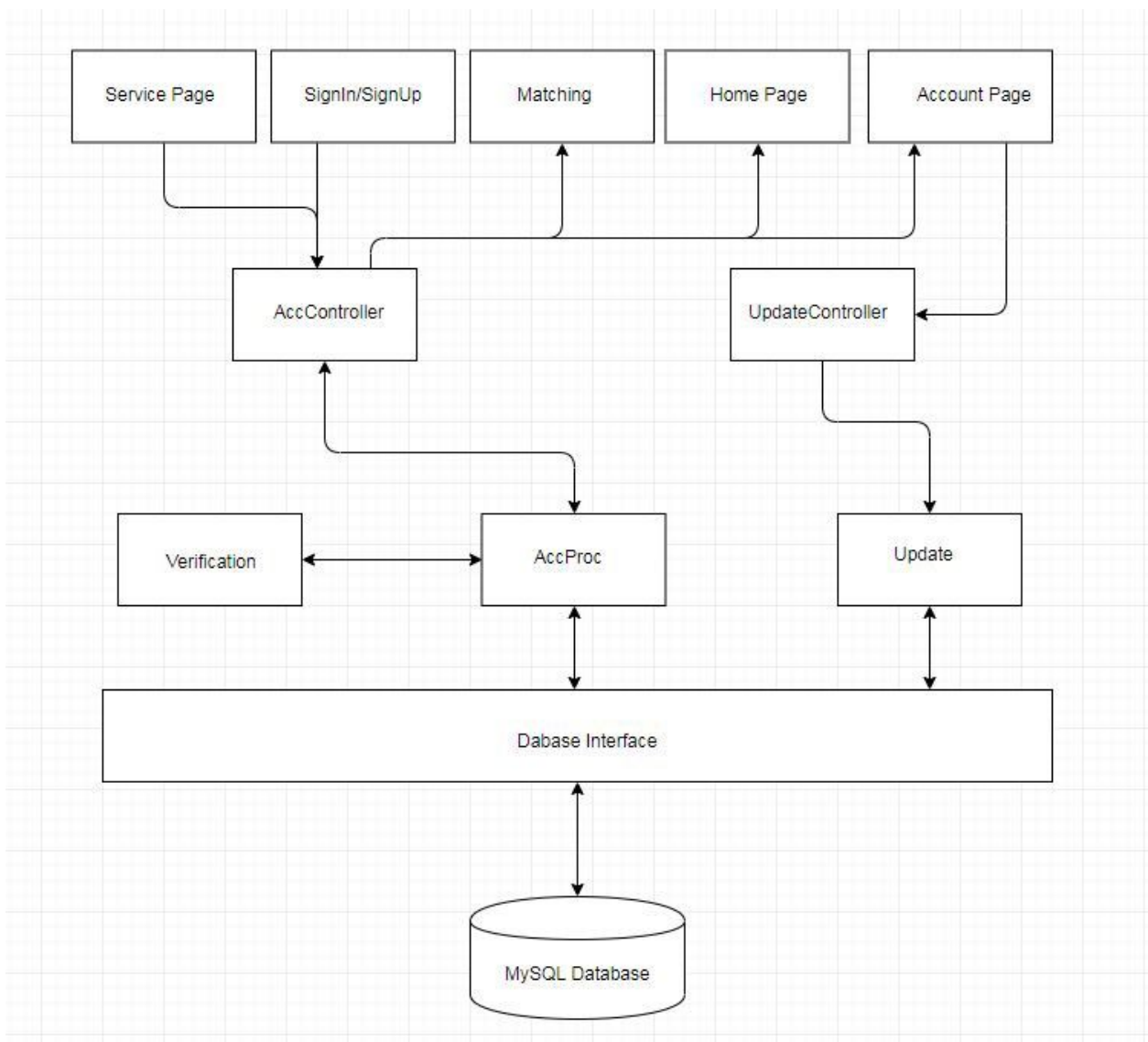
Noraml Diagram



Error Digram



Architectural Diagram



UML Digram

