Hospital management system

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1 Introduction

The main body of hospital management information is the medical information of patients. With the deepening application of information technology in hospitals, we need to study and deal with the relationship between medical orders and patient accounting, medication, examination, treatment, etc.

The main functions of the system are patient management, doctor management, appointment management, drug management and so on.

2 Require specifications

Python - 3.11

Pycharm - 2023.1.4

Django - 4.2

Mysql - 8.2.0

3 Project framework

Front-end: HTML, CSS

Back end: Django framework

Database: SQL database

The front end is mainly responsible for the presentation and user interaction of the user interface, using HTML, CSS and JavaScript for development.

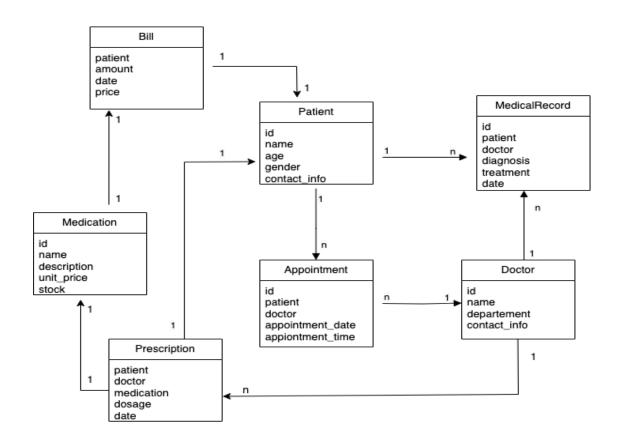
HTML: The basic structure used to build web pages. For example, use HTML tags to define basic elements such as forms, buttons, tables, and so on. CSS: used to beautify the page, JavaScript: used to achieve dynamic page interaction. Django's template engine is used to generate dynamic HTML pages. The template file is usually placed in the templates directory and rendered and returned to the client through the view function

```
<script src="/static/js/vue.js"></scri</pre>

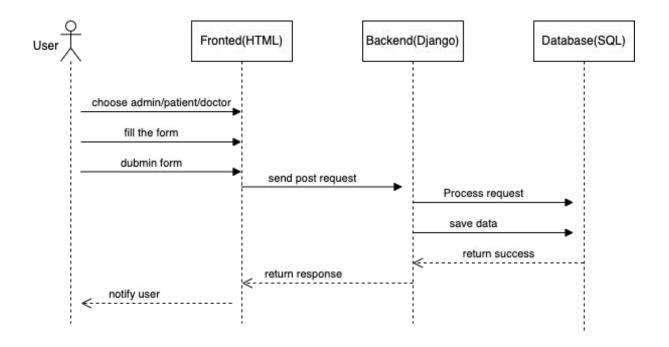
✓ ☐ templates

                                               <script src="/static/js/axios.js"></sc</pre>
     <> admin.html
                                              <script src="/static/js/helper.js"></s</pre>
     <> admin_department.html
                                               <script src="/static/js/element.js">
     <> admin_doctor.html
                                          </head>
    <> admin_medicine.html
                                          <body>
     <> admin_patient.html
                                            <div id="app" class="app-warpper">
    <> doctor.html
                                               <div class="app-header">
     <> doctor_home.html
                                                        <h2>Hospital administrator sys
    <> doctor_order.html
                                                        <a href="../login" class="menu
     <> login.html
                                                            <span slot="title">Log out
    <> patient.html
                                                        </a>
     <> patient_home.html
                                                   </div>
                                               <div class="app-body">
     patient_order.html
```

CRUD Sequence Diagram



CRUD Sequence Diagram



4 Function Modules

4.1 User Management

Registration and login: Registration and login functions for users (including administrators, doctors, and patients).

Rights management: Control the rights of different user roles.

4.2 Patient Management

Patient information entry: patient basic information entry and editing.

Medical records management: Creating, updating and viewing medical records.

4.3 Doctor Management

Doctor information entry: doctor basic information entry and editing.

4.4 Appointment Management

Appointment: Patients make an appointment online.

Appointment confirmation: Appointment confirmation and reminder function.

4.5 Drug Management

Drug information entry: drug information entry and management.

Drug inventory management: real-time update and management of drug inventory.

5 Test



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