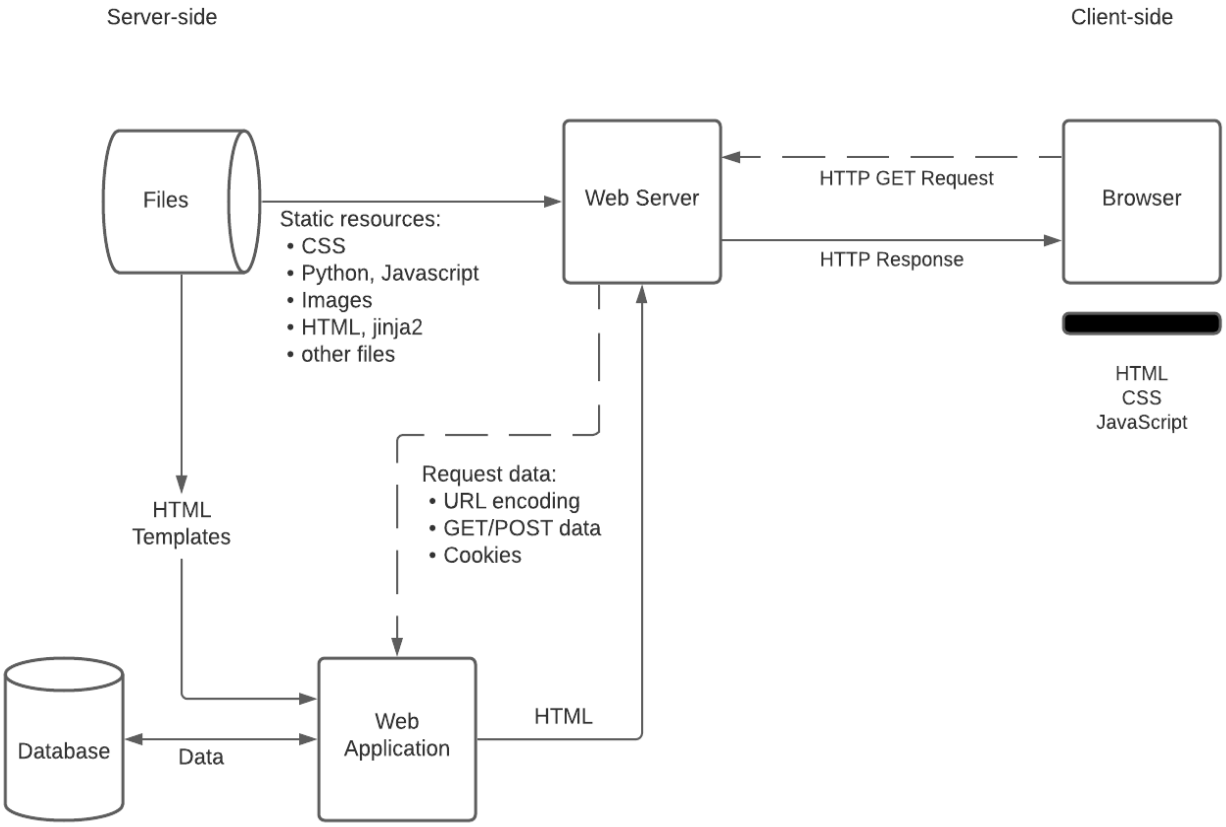
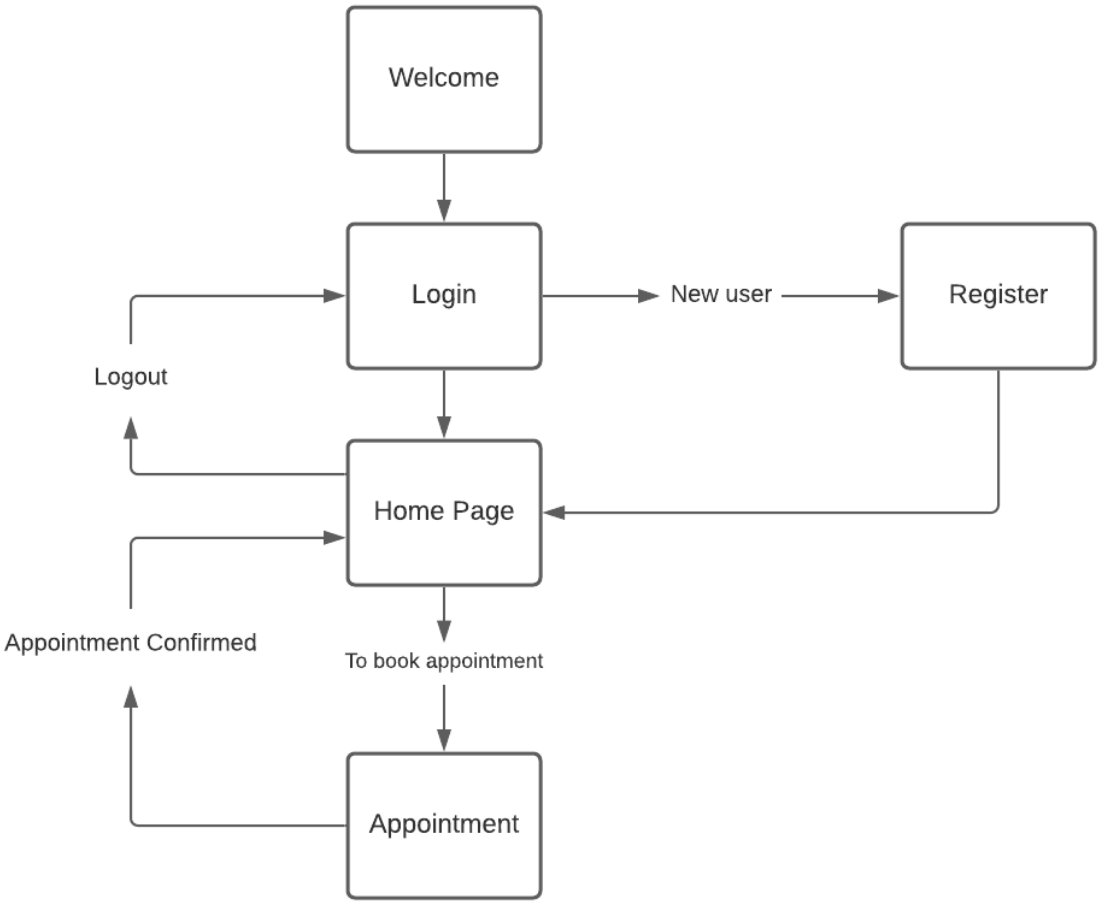
Architecture

Overview

- We are deploying a website to help patients make appointment booking hassle free. This is done using HTML ,CSS, Python and MySQL.
- HTML, CSS is used in developing the frontend.
- Python Flask is used in the backend while jinja2 is used to render the HTML.
- We used MySQL as our database management system.
- Communication between Server-side and Client-side



- Simple navigation chart of our website



Frontend

- Welcome
    - A brief introduction about Clinic
    - Sign in Button
- Login
    - Sign in using Phone Number and Password (If True ,will redirect to Homepage)
    - Choice to Sign Up
- Sign Up

    - Creating an account using phone number and password along with Name, DOB, Gender
    - Upon creating the account, it'll redirect to the Homepage
- Home Page
    - Book an Appointment button
    - Information regarding upcoming appointments(if any)
    - Information regarding services offered
    - Edit Profile, Change Password, Logout
- Appointment
    - List of all doctors available with details
    - Availability of doctors.
    - Appointment for self or for others.
- Login(as Receptionist)
    - To Enter Phone Number and Password credentials
- Login(as Admin)
    - To Enter Phone Number and Password credentials
- Receptionist Page
    - Information regarding appointments
    - Walk-in Appointments
- Admin
    - To add new Doctors edit their details and add Receptionist, admins credentials
- Doctor

    - To add prescription for a patient

Backend

- Python Flask
- MySQL

Databases

Tables

- Patients
    - To verify the login credentials and to autofill the details if the appointment is for self
    - Schema-Patients(phno char(10),password varchar(20),first name varchar(20), last name varchar(20) ,dob date, gender char(1))
- Appointments
    - Will have the details of which patient is consulting which doctor at what time and date
    - Schema-aptmnt(apmnt_id int, patient_id varchar(40),doctor_id varchar(20),aptmnt_time time,aptmnt_date date)
- Doctors

    - Doctors profile and their availability
    - Schema-Doctors(Doctor_id varchar(20), doctor_first_name varchar(20),doctor_last_name varchar(20),doctor_specialization varchar(20),doctor_experience int,doctor_education,doctor_gender char(1) ,doctor_image varchar(20))

- Doctor_availability
    - When will the doctor be available
    - Schema- Doctor_availability(doctor_id varchar(20),monday bool, tuesday bool,wednesday bool,thursday bool,friday bool,saturday bool,sunday bool)
- Receptionists
    - Credentials of Receptionists
    - Schema- Receptionist(recp_id varchar(20),recp_id password varchar(20),recp_name varchar(20),recp_phno int(10))
- Admin
    - Credentials of Admin

    - Schema-Admin(Admin_id varchar(20), admin_password varchar(20),admin_first_name varchar(20) admin_last_name(20))
- Prescription
    - Prescription of Patients
    - Schema- Prescription(Presciption_id varchar(20),prescription_notes varchar (200),patient_id varchar(20),doctor_id varchar(20),pres_date date)