Deccan Education Society's

FERGUSSON COLLEGE (AUTONOMOUS), PUNE-4

Department of Computer Science

A
Project Report
On

WEBSHALA
WEBSITE INTERFACE DESIGN

By

1. Anushree Abhay Bhuskute 218611
2. Dhruvi Vinay Shah 218617
3. Tanmay Sunil Hadke 218661

[2022 – 2023]

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A
Project Report
On

WEBSHALA
Website Interface Design

In partial fulfillment of requirements of the completion of T.Y.B.Sc (C.S.)

Semester-VI

Bachelor of Science

Computer Science

SUBMITTED BY:

Anushree Abhay Bhuskute	**218611**
Dhruvi Vinay Shah	**218617**
Tanmay Sunil Hadke	**218661**

Under the Guidance of

Dr. Deepali Dhainje

[2022 – 2023]

Deccan Education Society's

Fergusson College (Autonomous), Pune.

Department of Computer Science

(CSC3609) Computer Science Project-II

CERTIFICATE

This is to certify that the project entitled **WEBSHALA-WEBSITE INTERFACE DESIGN** Completed by

218611	Anushree Abhay Bhuskute
218617	Dhruvi Vinay Shah
218661	Tanmay Sunil Hadke

in partial fulfillment of the requirement of the completion of B.Sc.(C.S.) Semester-VI, has been carried out by team under my guidance satisfactorily during the academic year 2022-2023.

Place: Pune

Date: / /2023

(Dr.Deepali Dhainje) (Dr. Kavita A. Khobragade)

Project Guide **Head, Computer Science Department**

ACKNOWLEDGEMENT

In successfully completing our project we would like to express our special Thanks of gratitude to our Project Guide **Dr. Deepali Dhainje Ma'am** under her guidance we learned a lot about this project. Her suggestions and directions have helped us in successful completion of this Project: **WebShala - Website Interface Design**.

We would also like to Thank our Head of the Department,

Dr. Kavita A. Khobragade for this golden opportunity and her constant support to do this Project.

We would also like to thanks our Departmental staff members, Lab technicians and Non-teaching staff members for their extreme help throughout our project. We express our heartful thanks to all of our teachers who helped us in successful completion of this project.

Finally, we would like to thank our **Friends** who have helped us with their valuable suggestions and have been very helpful in various stages of project completion.

Special thanks to **us, group mates** for **coordination and hard work.**

Anushree Abhay Bhuskute **218611**

Dhruvi Vinay Shah **218617**

Tanmay Sunil Hadke **218661**

SLOT WISE PERFORMANCE SHEET

Name and roll no of the student	Anushree A. Bhuskute (218611) Dhruvi V. Shah (218617) Tanmay S. Hadke (218661)
Title of the Project	WebShala -Website Interface Design
Project Guide Name	Dr. Deepali Dhainje

Sr. No	**Date**	**Task Done**	**Sign**
1.	11/01/23	Behavioral Modelling (Sequence and activity diagram)	
2.	25/01/23	State Diagram	
3.	08/02/23	Architectural Modeling (Component and Deployment Diagram)	
4.	15/02/23	Coding and Implementation Test Case Design	
5.	22/02/23	Activity (Project Demo)	
6.	01/03/23	Review activity of Project Demo	
7.	08/03/23	Coding and Implementation of Interlinking Coding and Implementation of Events	
8.	15/03/23	Coding and Implementation of Validation	
9.	29/03/23	Documentation	
10.	05/04/23	Activity (Final Project Demo)	

1. Introduction

The project WebShala includes registration of users, storing their details into the system. The website saves the details of the user automatically. Webshala on registration can be accessed by simply logging in. The whole website is only accessed by admin. Only admins can add data into the database. The interface is very user-friendly. The data is very well protected for personal use and makes the data processing fast. Webshala is powerful, flexible and easy to use and is designed and developed to deliver real conceivable benefits to the customer.

A website is a good investment for any company these days. If you don’t have an online presence ,it’s almost as if you don’t exist.

Provides Greater accessibility

New opportunities for marketing

All information in one place

1.1 Detailed Problem Definition

The pandemic of 2019 has brought the entire world online. Those two years of pandemic were difficult for everyone. Turning to online mode was a drastic change in the normal human lifestyle. Right from education, finding for house helpers, doctors to shopping, everything became online through websites. Every domain today requires a website and if proactive product then applications. The toughest way to enter the competition is website and it is the simplest way to reach out to actual users! Websites are easy to handle and so also user friendly.

Since the pandemic made a scary environment of being quarantine hence the people didn't reach out to doctors even for other health related issues. People simply lost their lives in fear even though their health was curable. At certain times professional help is required in creating websites. As the website is the way to get connected to the actual users. So, to make client (patient) lives easier using our WebShala platform Dr's can also have their own interactive websites totally patient friendly.

1.2 Presently Available System for the same

There are multiple sites that allows user to create their own website which have a complicated user interface. The benefits of these websites are that user needs no backend/coding knowledge to create their own personalize websites. There are multiple existing systems like “goDaddy.com”, “Wix.com”, “googleworkspace.com”, etc.

1.3 Need for the New System

The website “wix.com”, “goDaddy.com”, etc,. have a complicated user interface. Many a time user feels overwhelmed while creating the website. Every domain requires a website in order to connect to their customer or client. The websites help to easily acquire knowledge about the domain to the customers. The admin can also keep a track of their visitors by using website views, ratings etc., Hence it is necessary to have a website. The easiest way to enter the online world is through websites. Even if the user has an Instagram page a need of website is mandatory in order to increase the business. Websites help in easy learning and communication. Hence to make it more user friendly there is a need of Webshala, that provides expert help to its customers. This is a user friendly and quick way to create a website.

1.4 Project Scope

Including the benefit of existing systems and overcoming the drawbacks, we create a simple, user-friendly website. This enables user to freely and easily create a website of their own by filling the necessary and required details.

Currently WebShala is focusing on single user group ie. DOCTORS from various fields of medicine (ayurveda, homeopathy, allopathy).

The coronavirus epidemic has increased the market for medical specialist. Hundreds of millions of people search the internet for health-related information. The number of searches regarding HEALTHCARE SERVICES has risen by 20% in the last few Months. The medical site must be convenient and user-friendly in order to have a pleasant experience for patients.

We have put together a detailed guide on medical website development, design and growth to address all of these concerns.

2. Analysis

2.1 Feasibility Study

2.1.1 Technical Feasibility

System should be evaluated from technical perspective in order to ensure proper working of the system. It is necessary to determine the resources prior to working on the project to ensure correctness, reliability of the software, its supportiveness and so on.

Our project is technically sound as the internal technical capability is sufficient to support the project requirements. Languages like HTML, CSS, PHP, JavaScript are used to develop the system frontend. PostgreSQL is used to develop the backend. Using these our aim is to develop a system that is efficient, reliable, user friendly that are easily supported and available on any PC.

2.1.2 Economical Feasibility

Economical Feasibility refers to the cost analysis. This method is compulsorily and most frequently used method to ensure effectiveness and client friendly system.

More the savings + more the effectiveness=higher the client base

Economic analysis determines the benefits and savings that are expected from client system and compare with cost. The system we are using doesn't require high configuration software and hardware hence minimum cost is required.

2.1.3 Operational Feasibility

The proposed system is operationally feasible due to the following reasons:

It checks the acceptability of the software/system ie. whether the system used will function well when developed and implemented.

The client and the users of the client base will be able to handle the system effectively

Minimum point-to-point information->resulting to complete website.

Simple, easy-to-use, user-friendly.

Less maintenance as it is tested prior.

Our system offers doctors to create their own personalized informative website which will help them to reach to their patients. Creating website will be useful for the patients as they will get to know more about their doctor and his/her expertise. Also, it ensures that the patients can be connected to the doctors using e-commerce platform.

2.2 Technical Requiresments

- Hardware Specification
  - Server Configuration
    - Processor 2.49GHz Intel(R)
    - RAM 16GB DDR4
    - HDD 1TB
  - Client Configuration
    - 512 GB SSD
    - Processor 11th Gen Intel(R) Core i5
  - Software Specifications
    - Server- Linux-CentOS 8.0 version 64bits
    - Client- CentOS 8.0 Version 64bits, Windows 11
  - Platform
    - PHP
    - HTML
    - CSS
    - PostgreSQL
    - JavaScript
- Coding Style Required
  - HTML
  - CSS
  - JavaScript

3. Design

3.1 Database Table Designing

i. Identify the stakeholders of the system

Server: Creators/Administrative/Manager

Client: People of Different Profession

Domain

Server: Doctor

Client: Patients

All those who are directly or indirectly involved in the making, maintaining and so also using the website.

Basic Knowledge needed:

Active Internet user, Chrome/Mozilla-Firefox friendly user, must have knowledge of basic medical terms.

ii. Input Data to the System:

- Registration of the client.
- Selected template requirement of the client
- Data entered by the client to display on the website.

iii. Output information from the system:

Website created based on the information/details entered by the user.

iv. Functional or processing requirements of the System:

Table Design

Table name: Registeration

Sr.no	Field name	Field type	Description
1.	R_id	Serial	Registeration id(primary key)
2	Name	Varchar	User's name
3	Contact	Varchar(10)	Users's contact no.
4	Profession	Varchar	User's profession
5	Password	Varchar	The password for users account on webshala
6	Sq	Varchar	School name of user as security question

Table name: datahoomo

Sr.no	Field name	Field type	Description
1	Timings	Varchar	Saves the work time of the clinic
2	Nwd	Varchar	Nonworking days of the clinic
3	Email	Varchar	Email id of the doctor (**Primary key**)
4	Contact	Varchar(10)	Contact details of the doctor
5	S_bt	Varchar	Inputs the best treatment of the user
6	S_eh	Varchar	Inputs the emergency help from the user(their expertise in emergency situation)
7	S_ms	Varchar	Input related to the medical staff
8	S_qd	Varchar	Input related to qualified doctors
9	Why1	varchar	Input reasons on why choose us
10	Why2	Varchar	Input reasons on why choose us
11	Why3	Varchar	Input reasons on why choose us
12	Why4	Varchar	Input reasons on why choose us
13	Team	Varchar	Team-name/Dr. name
14	R_id	Serial	**Foreign key**

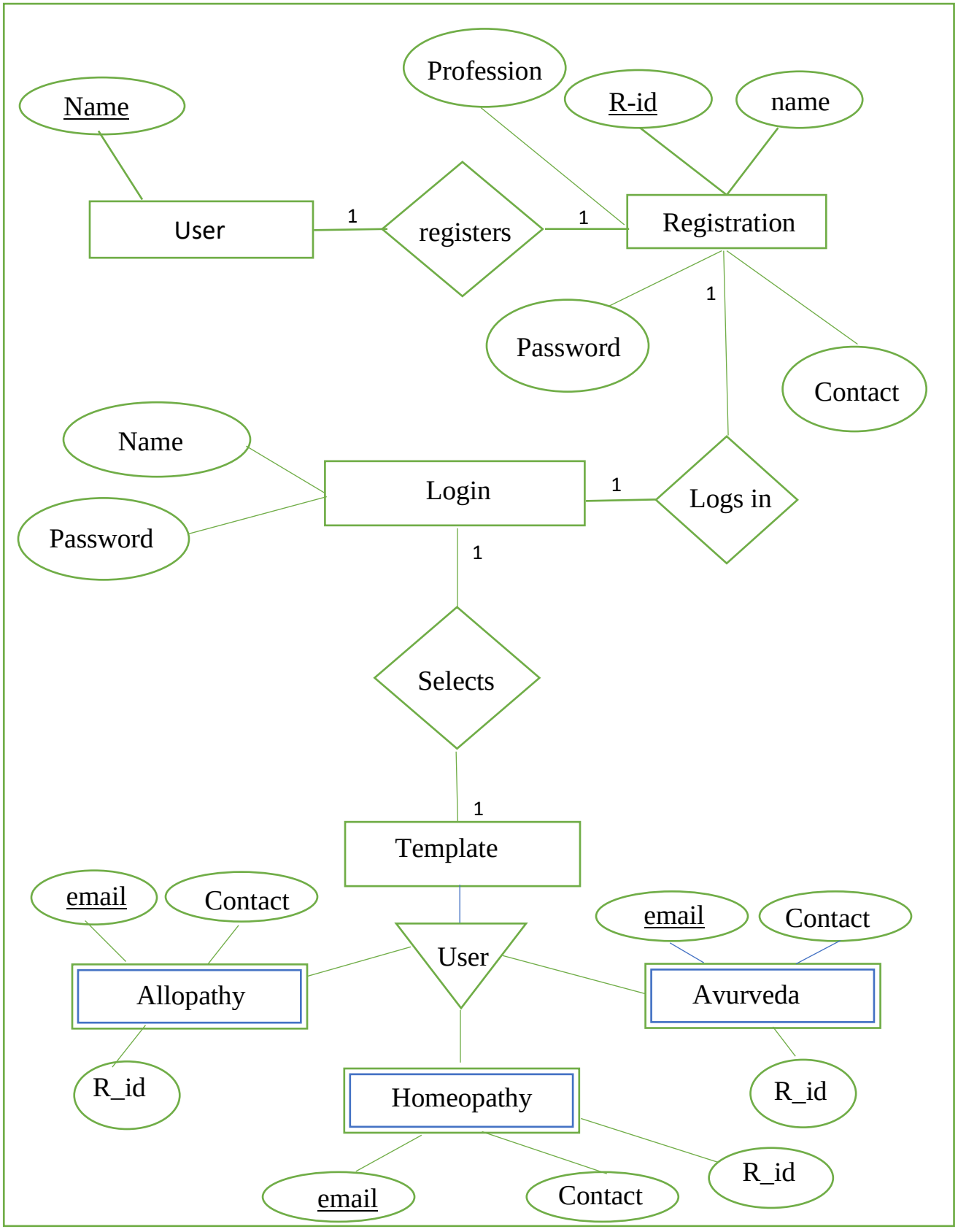
Table name: dataallo

Sr.no	Field name	Field type	Description
1	Services	Varchar	Various services provided by the doctor(emergency help)
2	Prostaff	Varchar	the details of the staff in short
3	Ecare	Varchar	Extra care the staff takes
4	About	Varchar	Details of the doctor
5	Sertitle1	Varchar	Services provided title
6	Sercon1	Varchar	The details of the services provided
7	Sertitle2	Varchar	Services provided title
8	Sercon2	Varchar	The details of the services provided
9	Sertitle3	Varchar	Services provided title
10	Sercon3	Varchar	The details of the services provided
11	Sertitle4	Varchar	Services provided title
12	Sercon4	Varchar	The details of the services provided
13	Team	Varchar	Team-name/Dr. name
14	Address	Varchar	Location of the clinic
15	Contact	Varchar(10)	Contact details of the doctor
16	Email	Varchar	Email details of the doctor **Primary key**
17	R_id	Serial	**Foreign key**

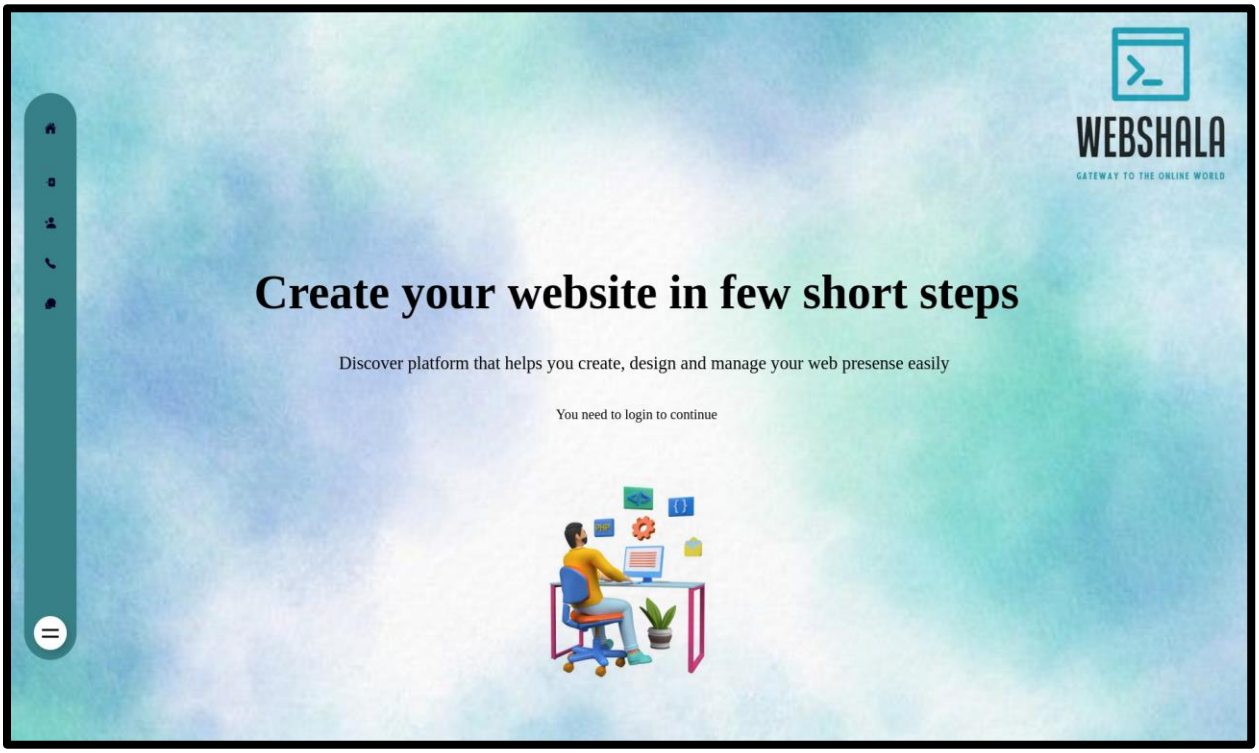
Table name: dataayu

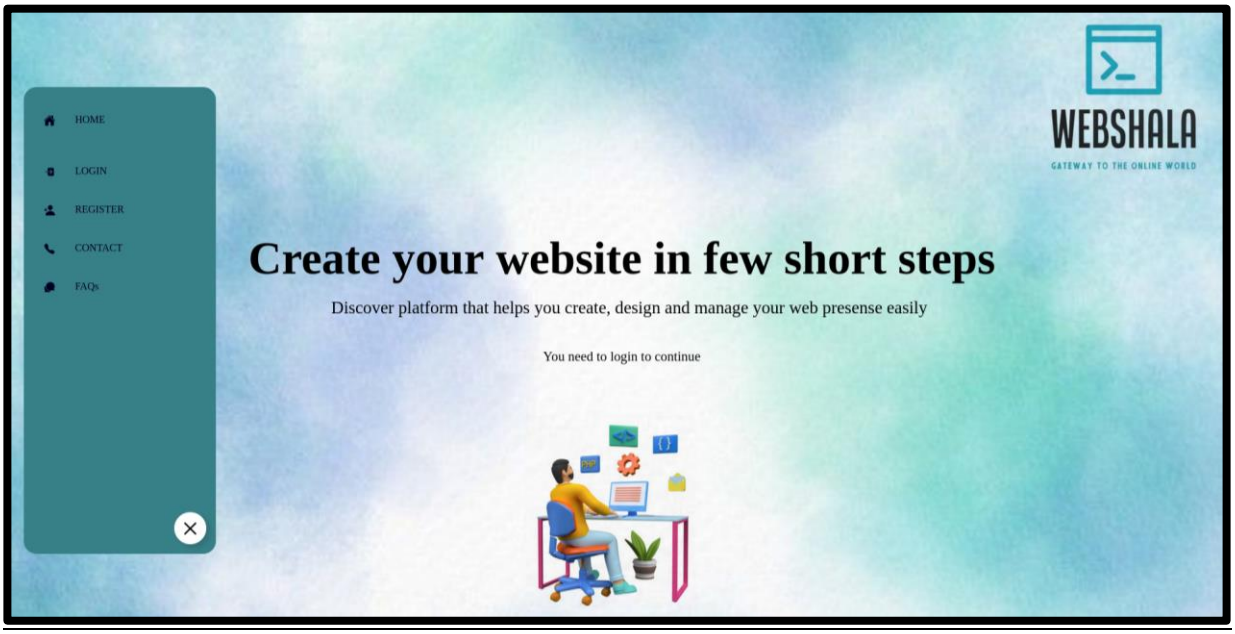
Sr.no	Field name	Field type	Description
1	About	Varchar	Details of the doctor
2	Tag	Varchar	Tagline
3	Treat	Varchar	the details of the treatment
4	Wcf	Varchar	World Class facilities
5	Eh	Varchar	Emergency Help
6	Ed	Varchar	Expert Doctors
7	D1	Varchar	Doctor 1
8	Ds1	Varchar	Doctor specialty
9	D2	Varchar	Doctor 2
10	Ds2	Varchar	Doctor specialty
11	D3	Varchar	Doctor 3
12	Ds3	Varchar	Doctor specialty
13	Dis1	Varchar	Disease 1
14	Dis_des1	Varchar	Disease description
15	Dis2	Varchar	Disease 2
16	Dis_des2	Varchar	Disease description
17	Dis3	Varchar	Disease 3
18	Dis_des3	Varchar	Disease description
19	Phone	Varchar(10)	Contact details of the doctor
20	Email	Varchar	Email details of the doctor Primary key
21	R_id	Serial	Foreign Key

3.2 Entity Relationship Diagram

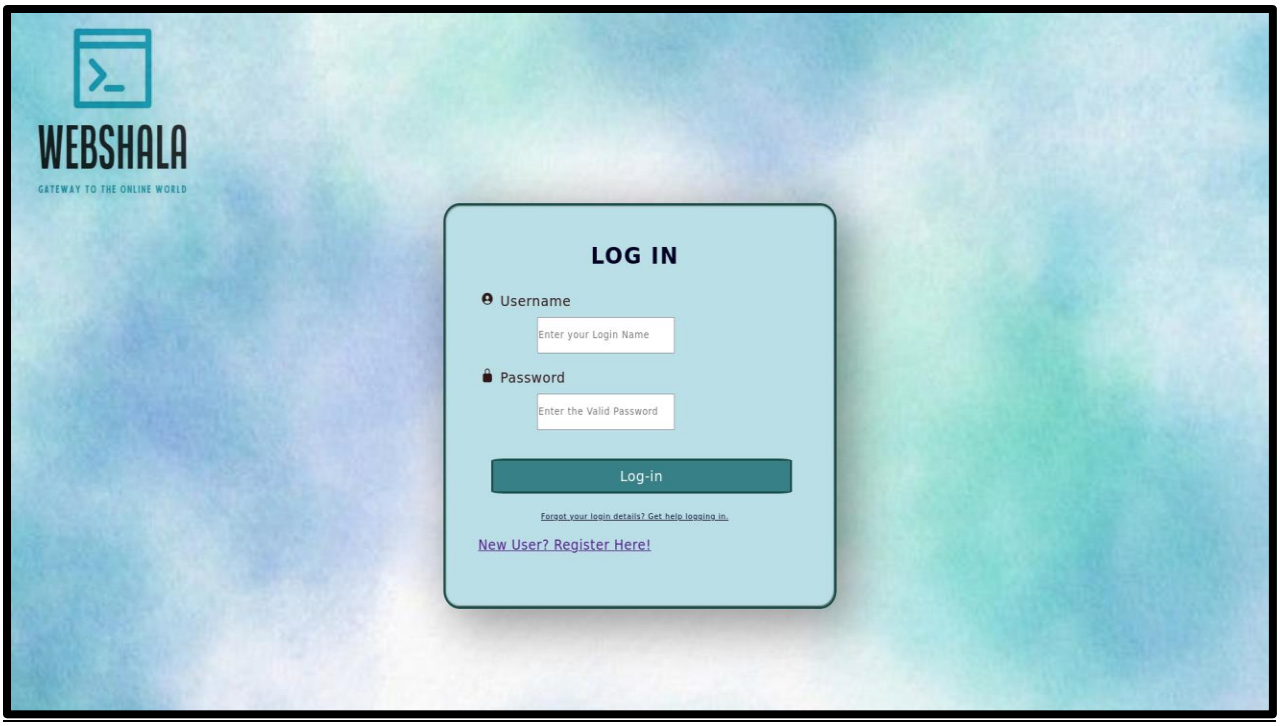


3.3 Input and output Screens

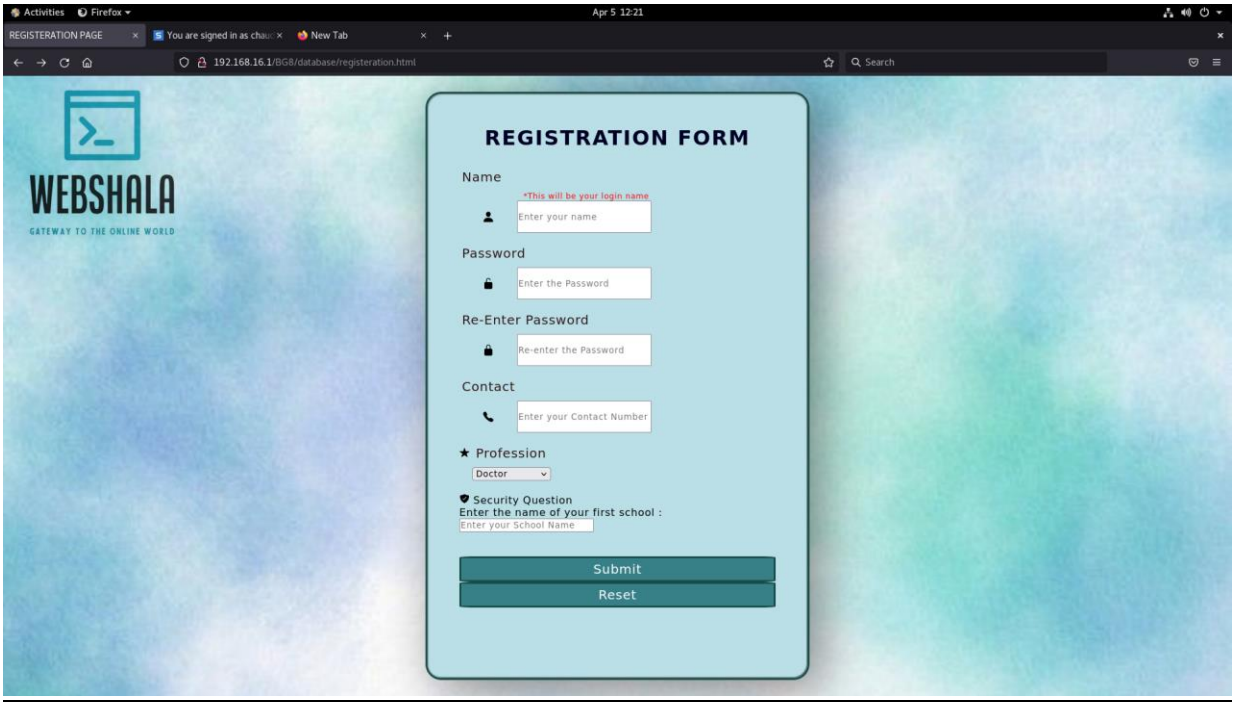




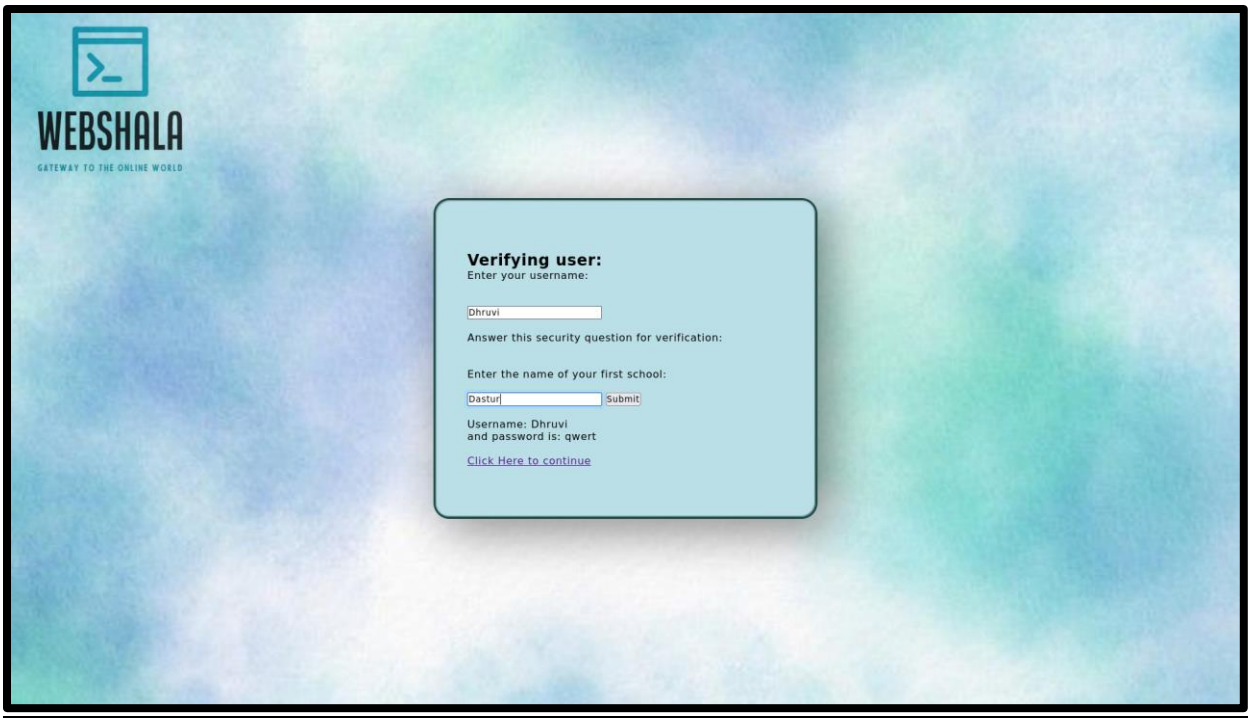
Home



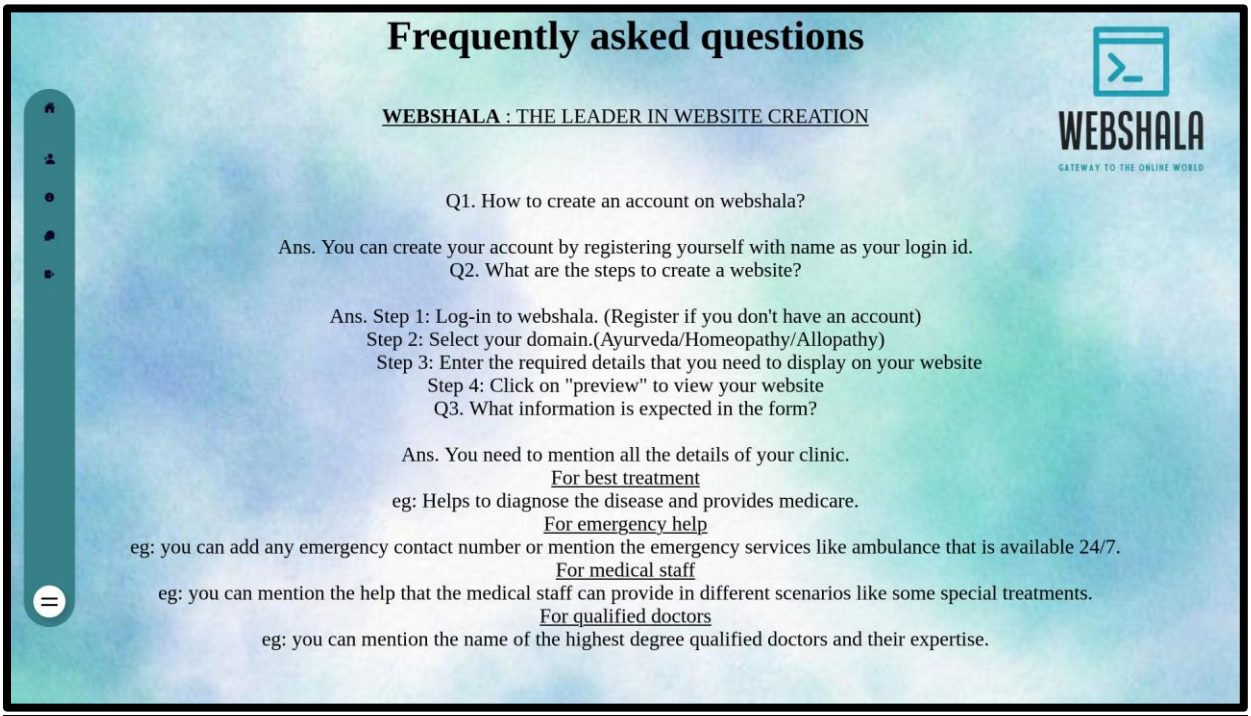
Login Page



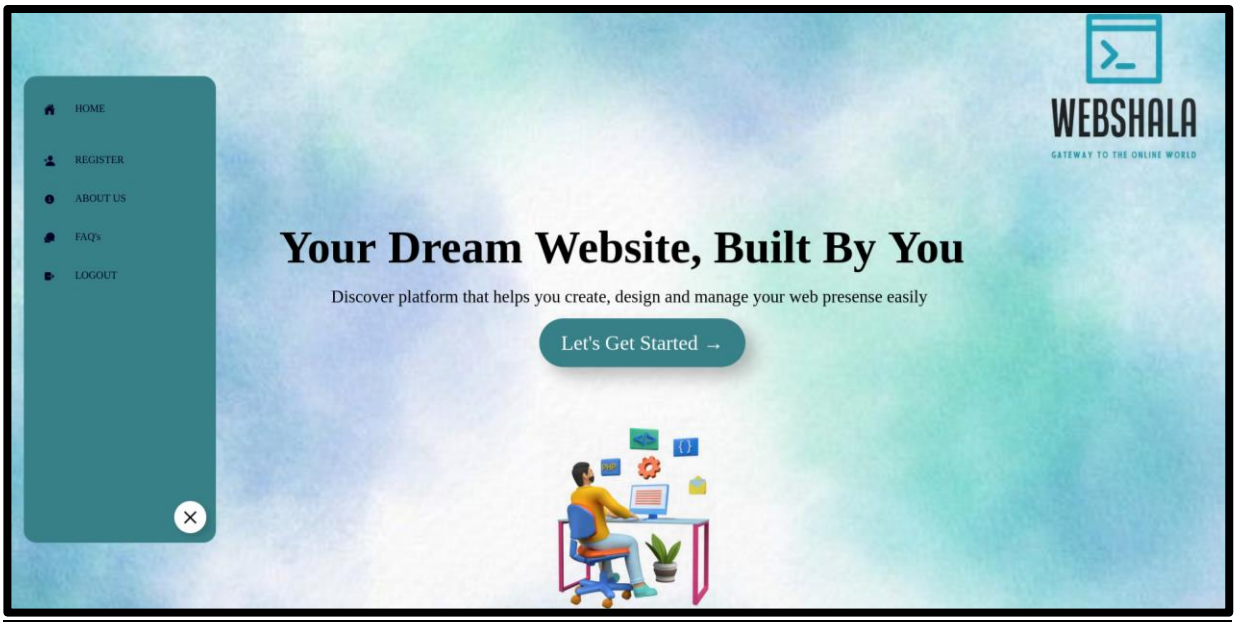
Registration Form

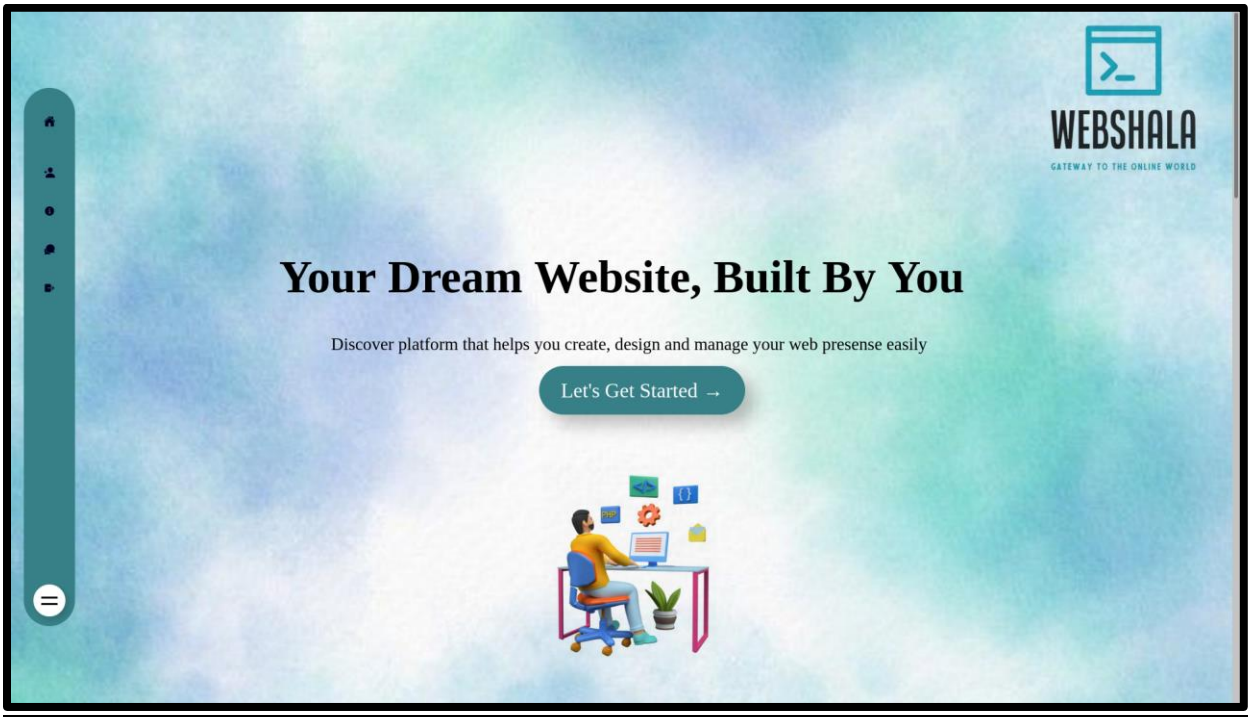


Forgot Password Authentication

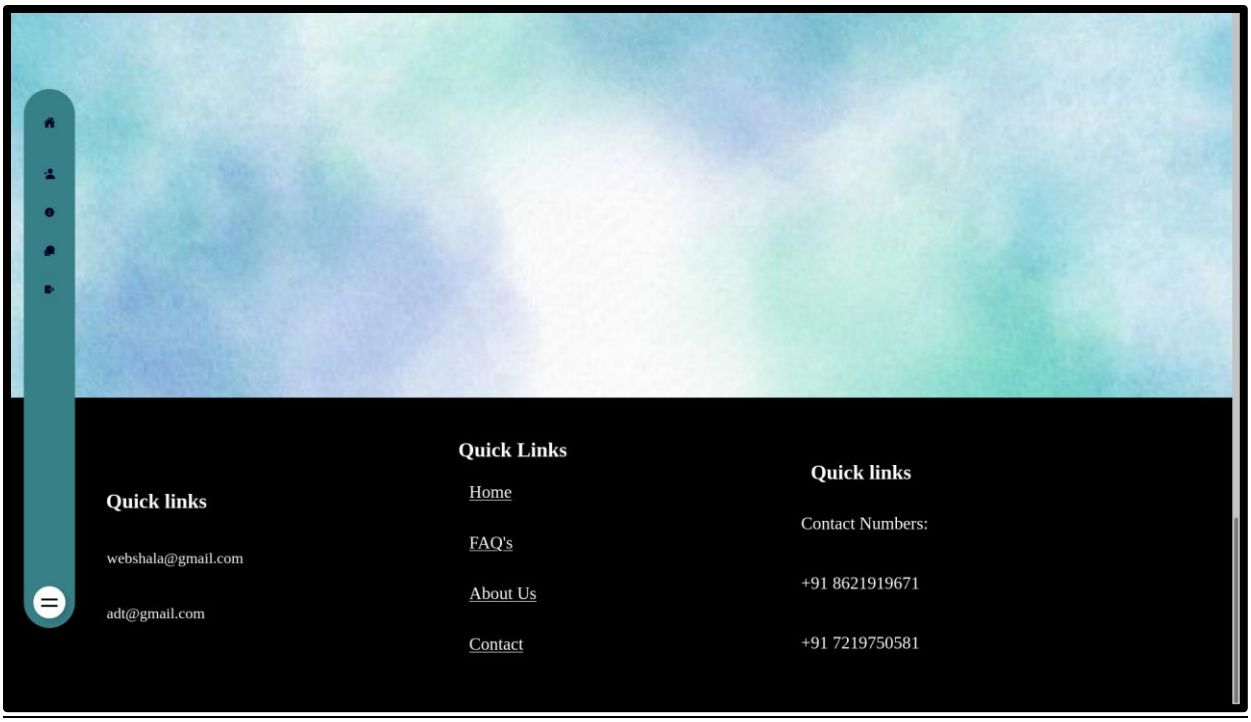


Frequently Asked Questions Page



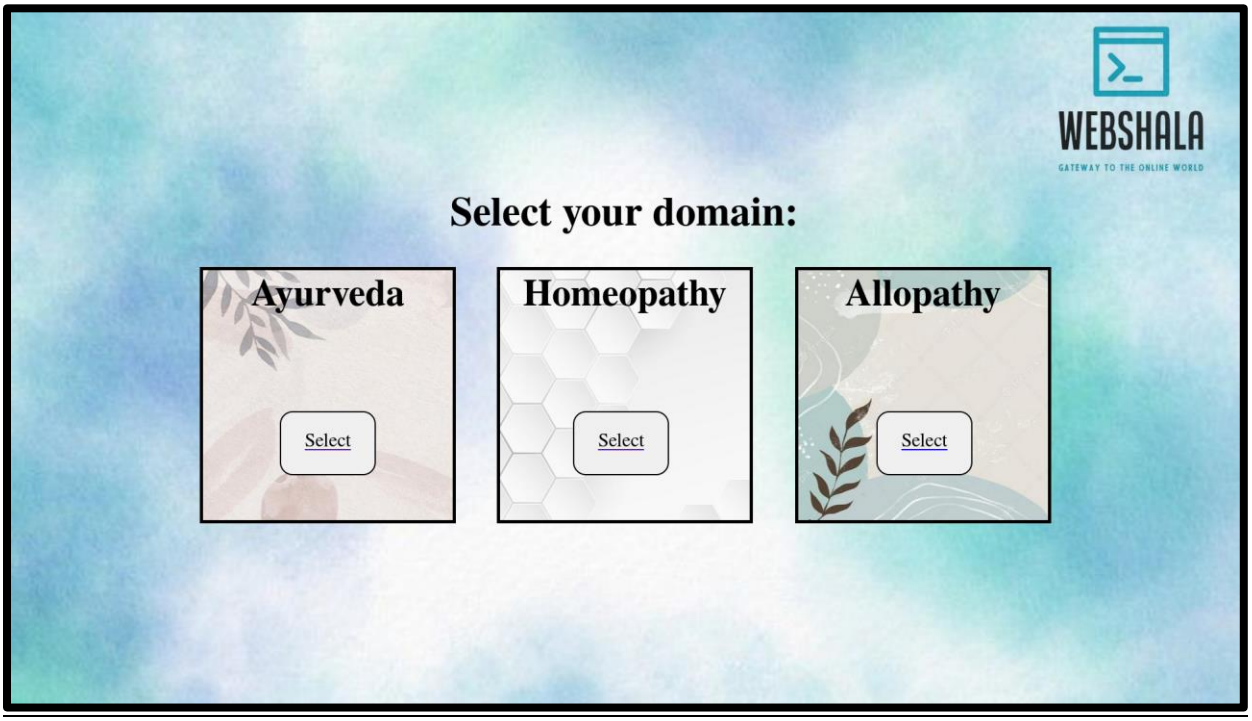


Landing page of WebShala

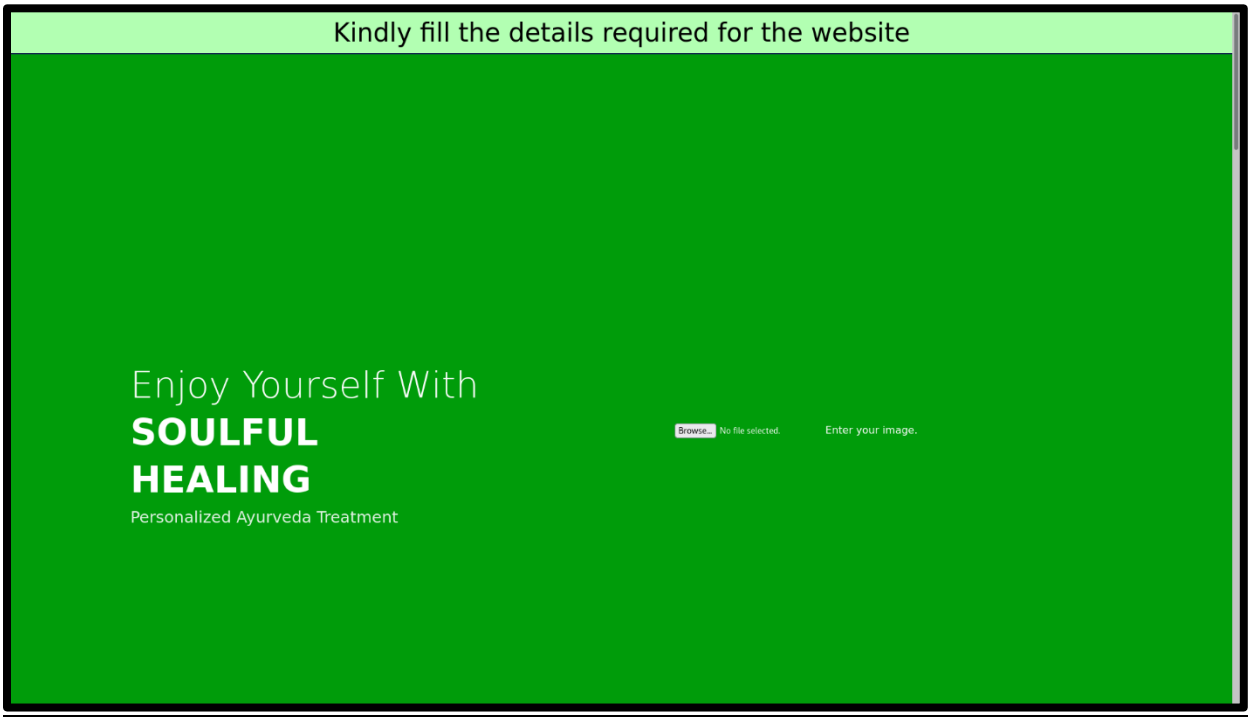


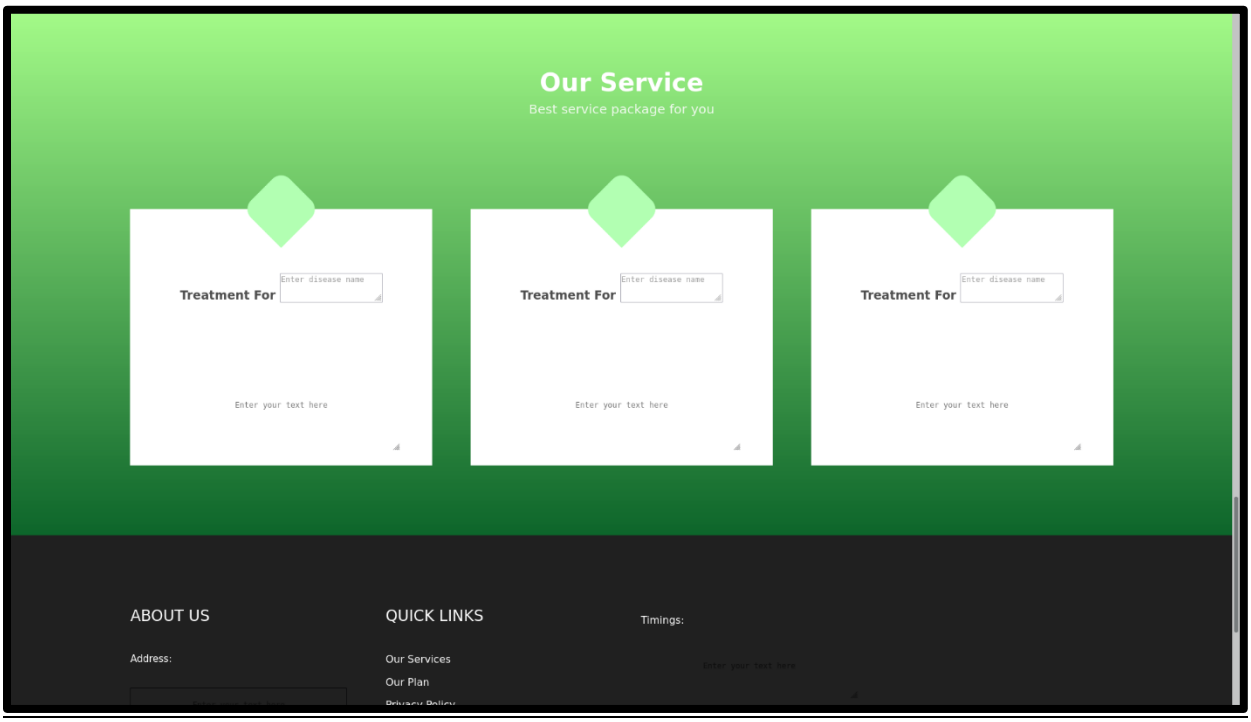
Footer of the Landing Page

About Us and Contact us Page of WebShala

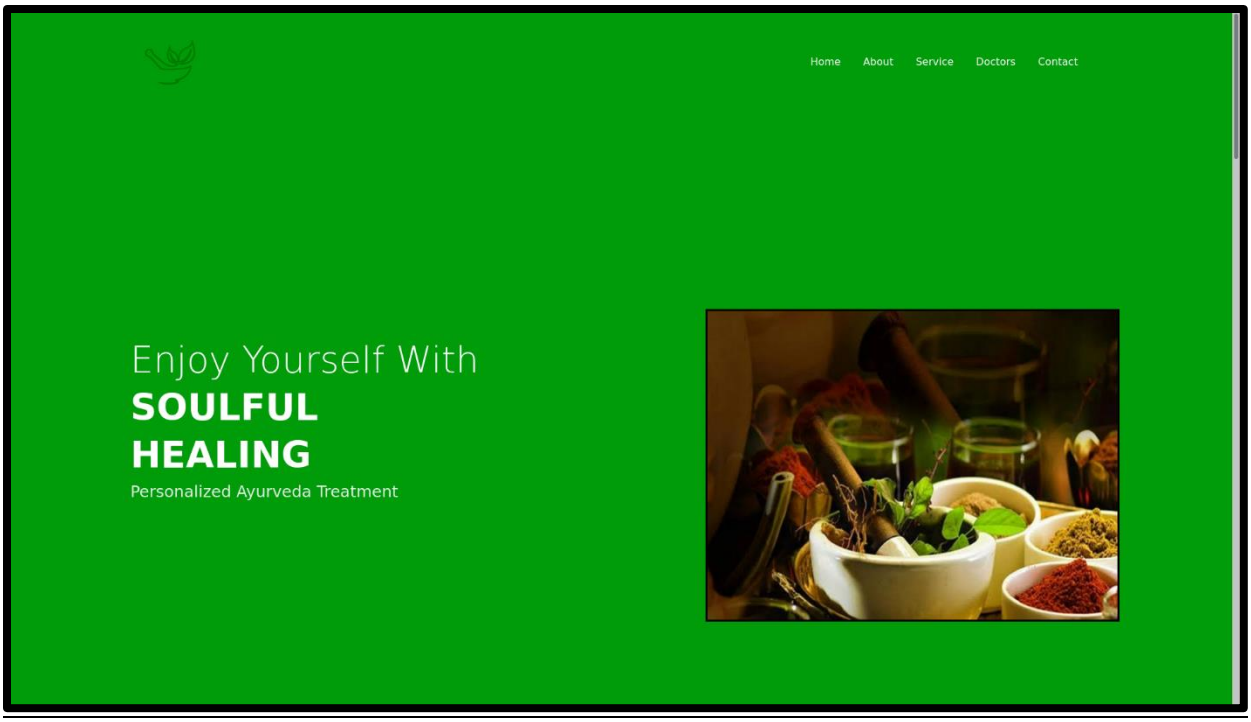


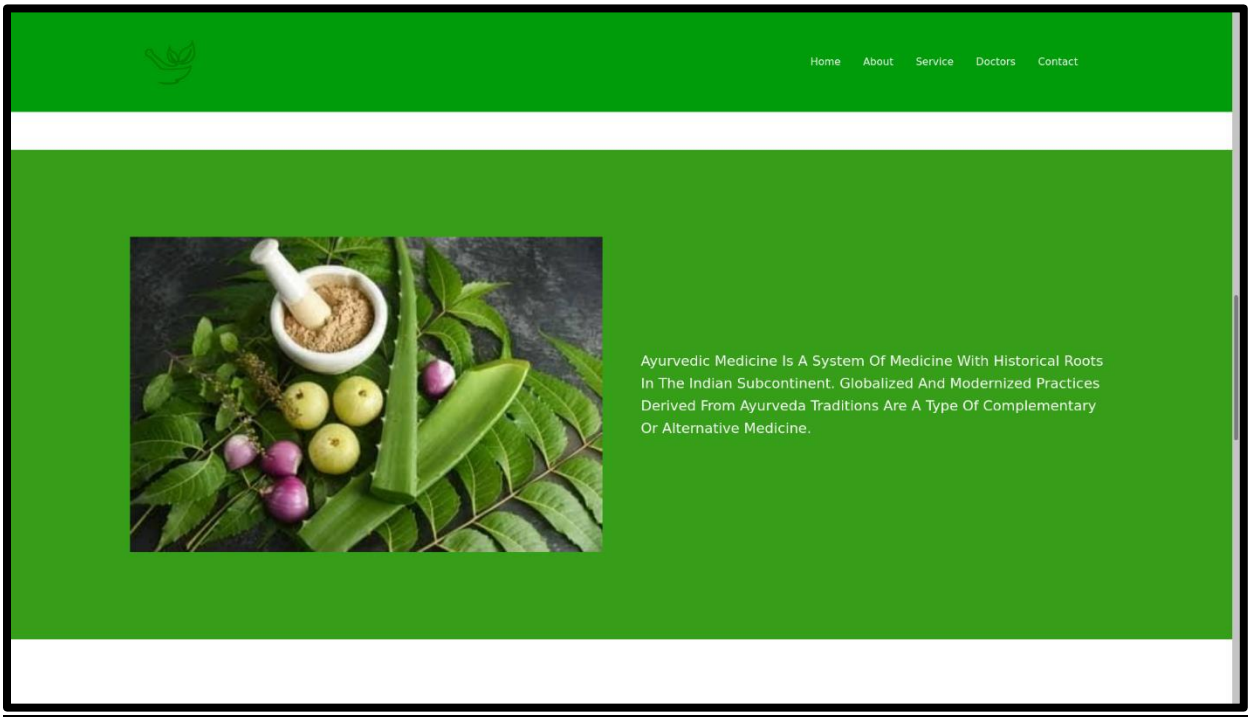
Template Selection



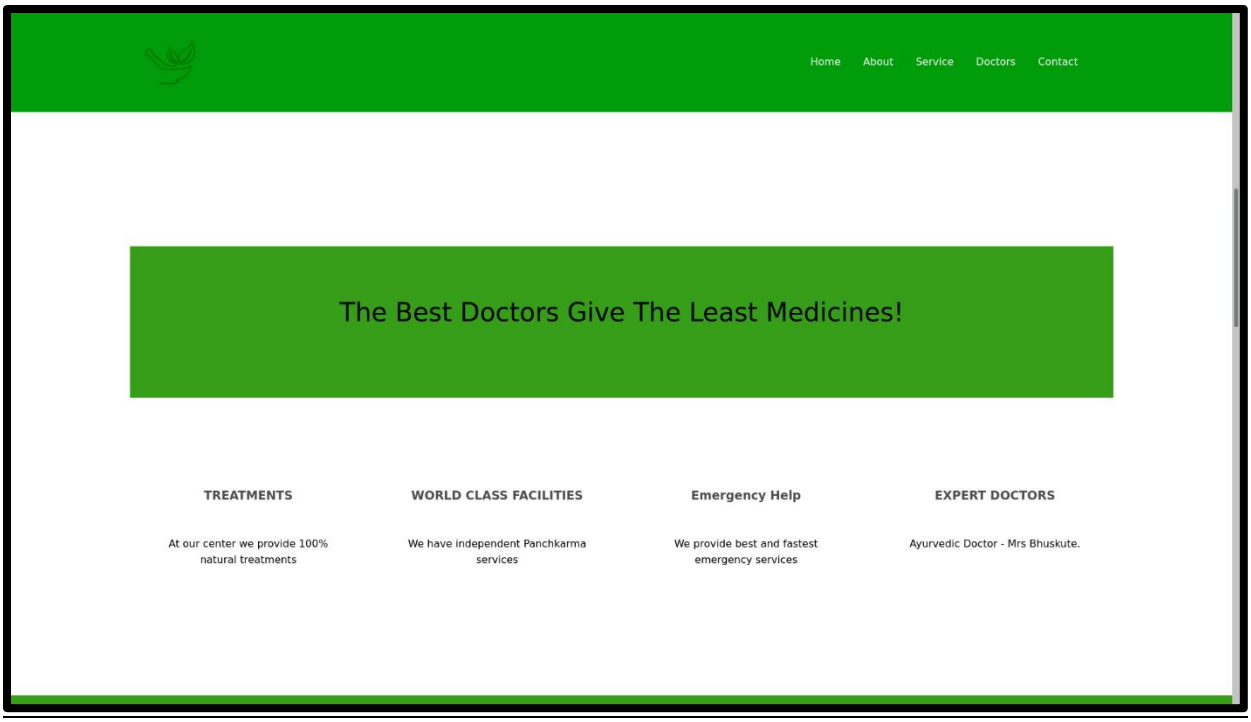


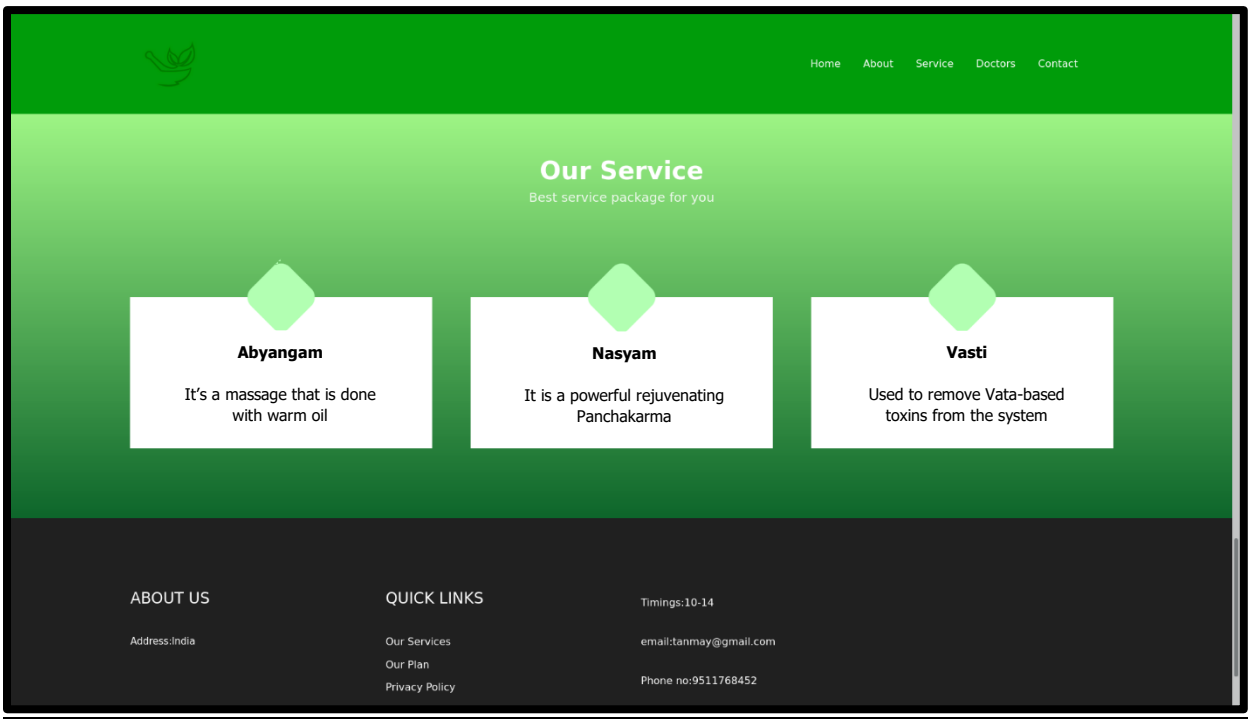
Fill the details for Ayurveda website



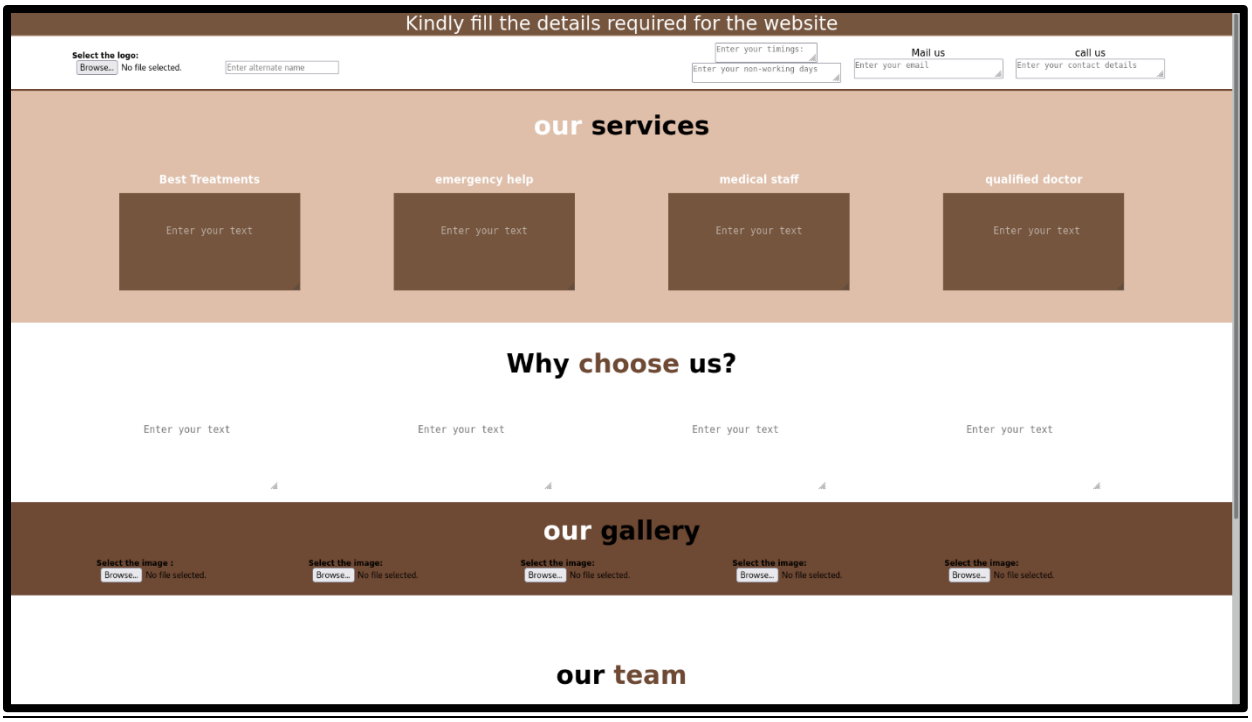


Preview of the Ayurveda website

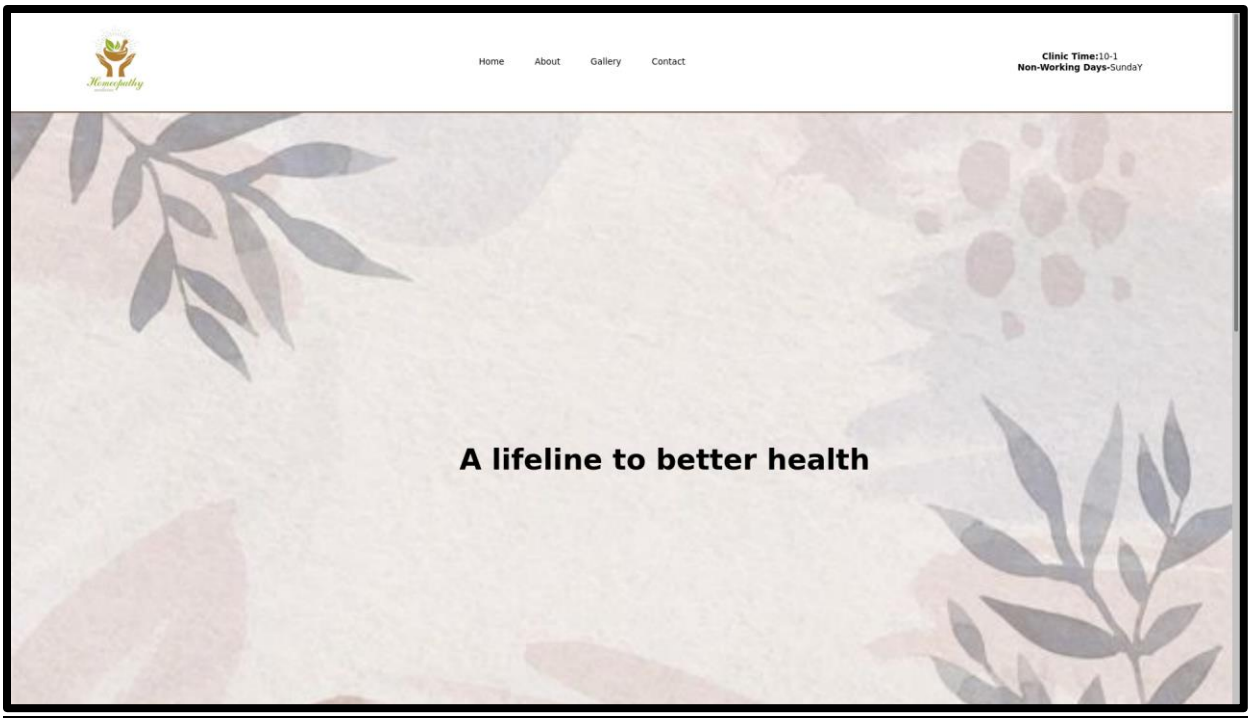


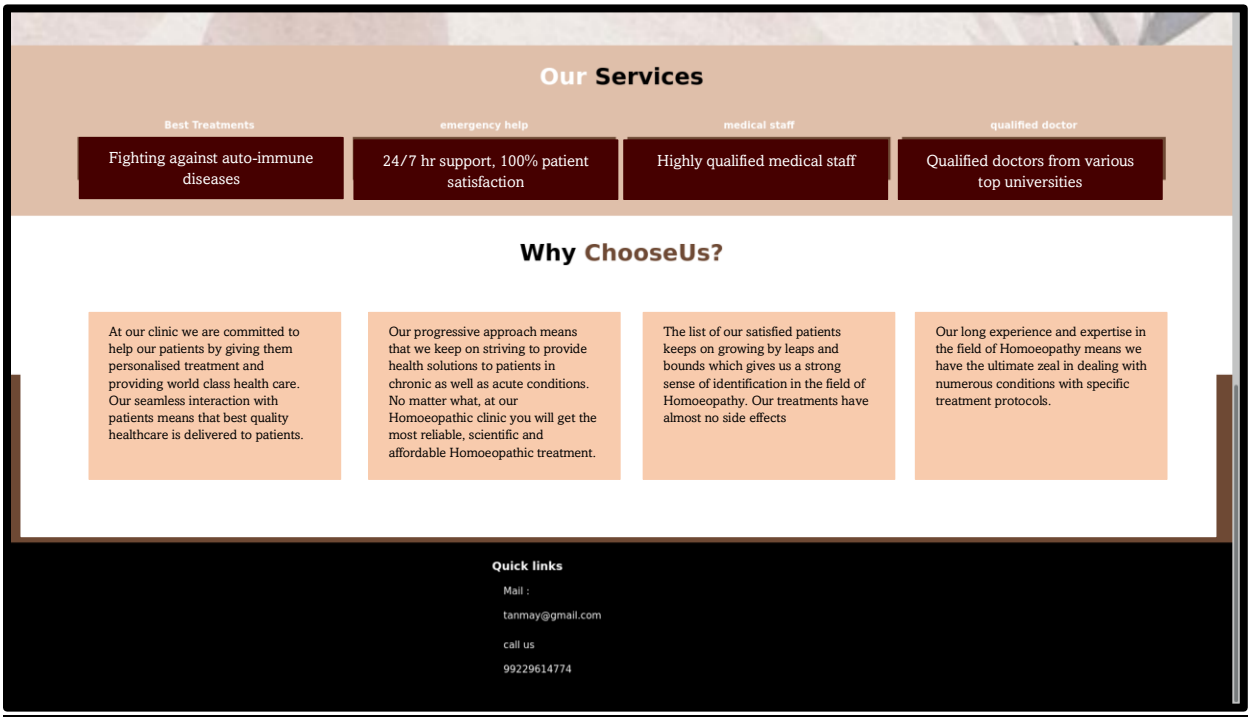


Preview of the Ayurveda website

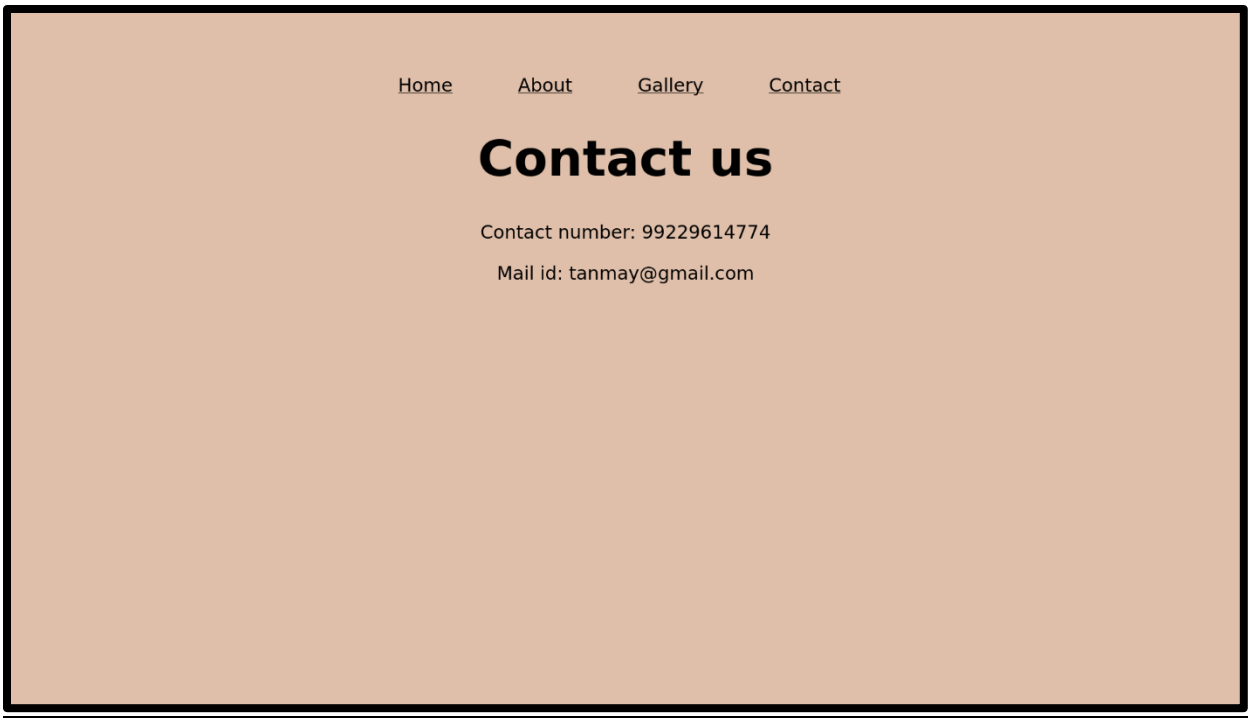


Homeopathy form

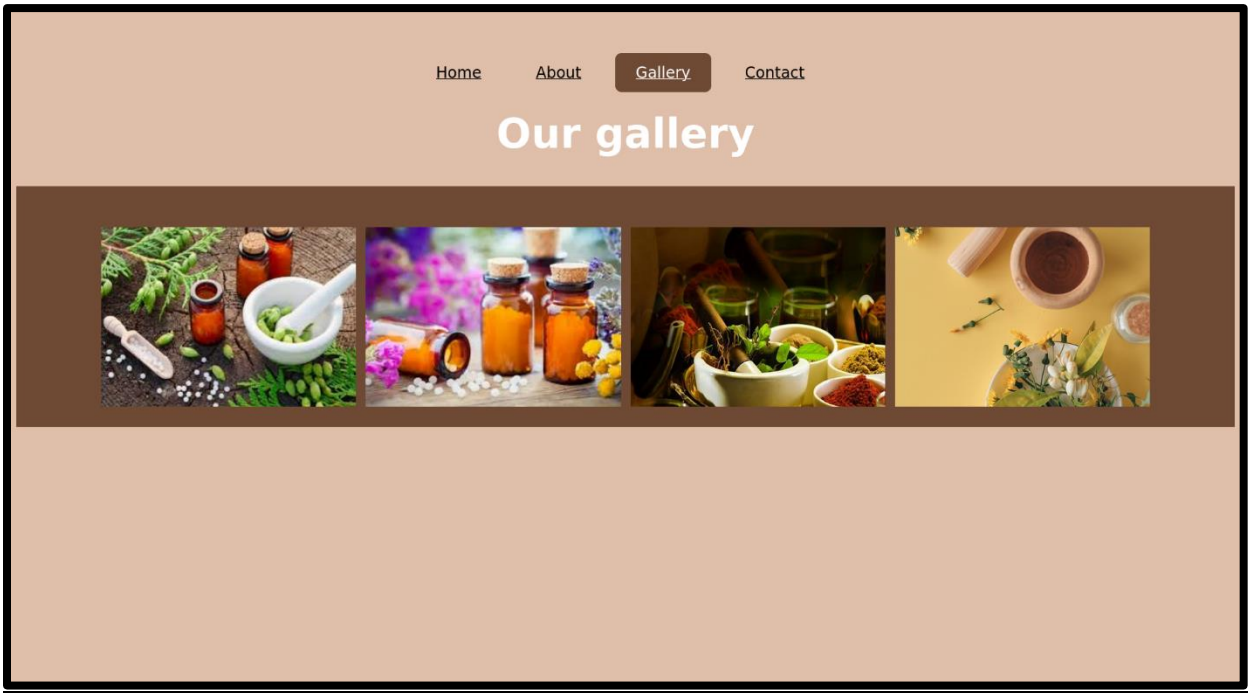


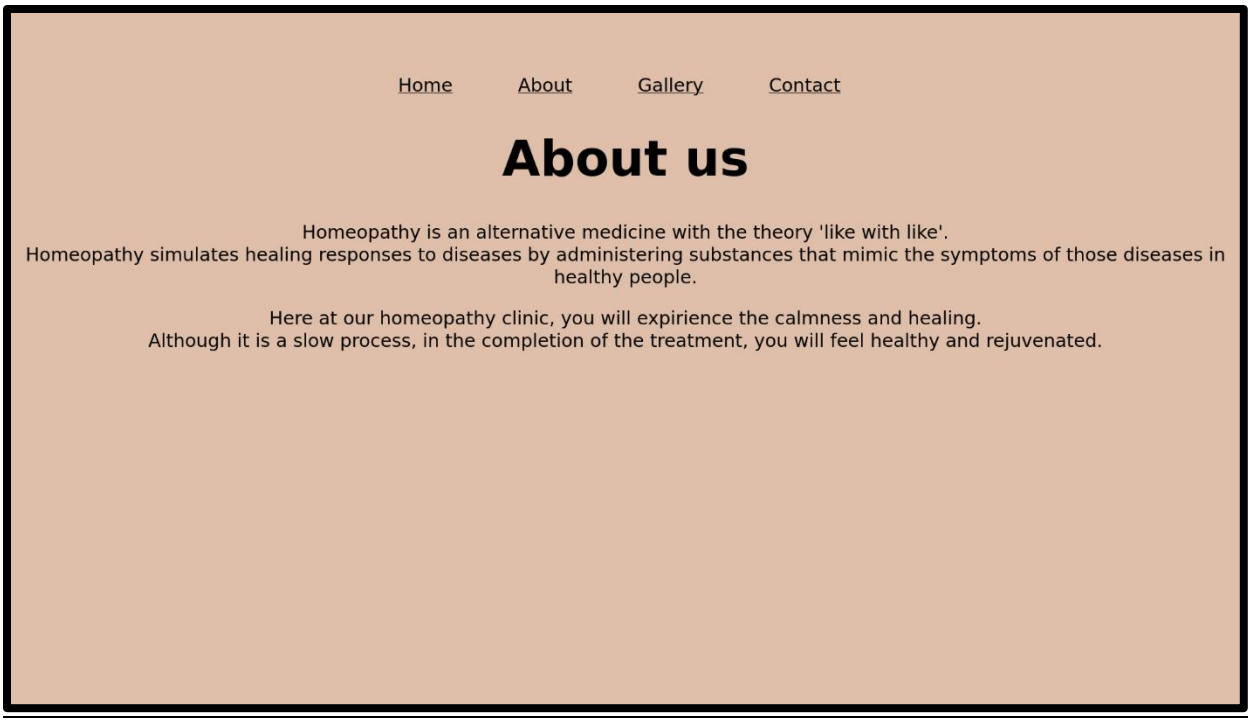


Homeopathy Website for Preview



Homeopathy Website for Preview





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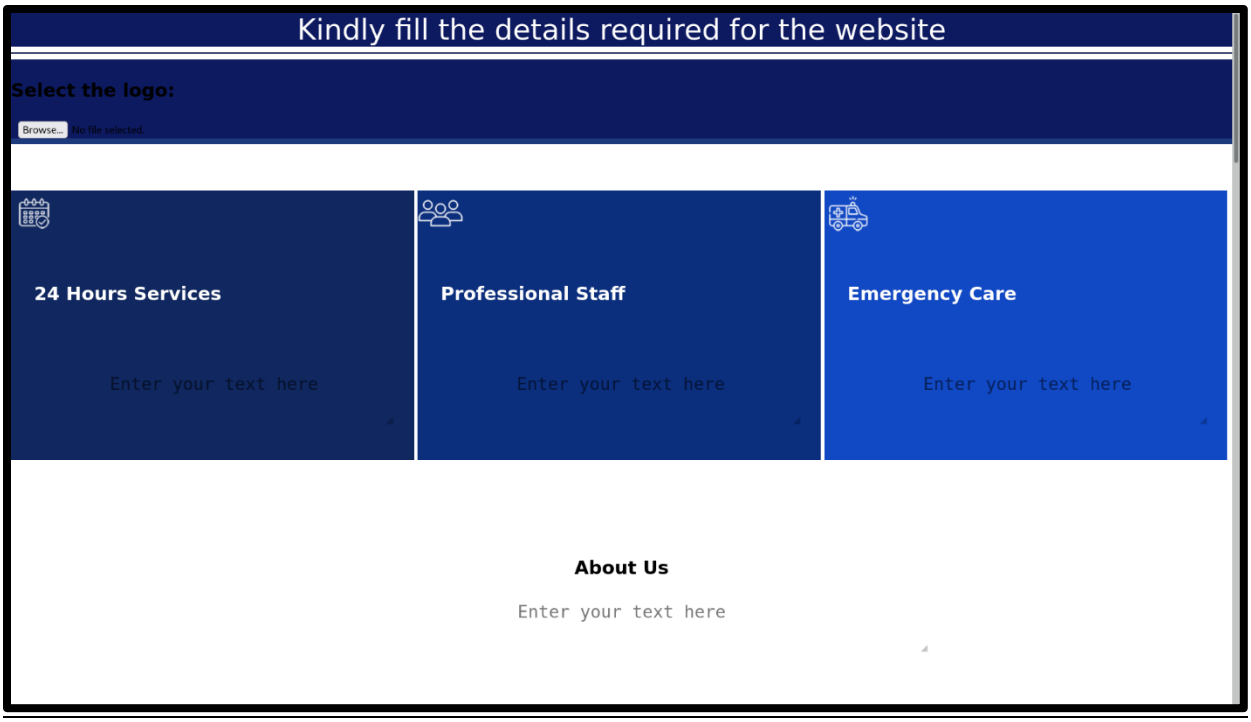
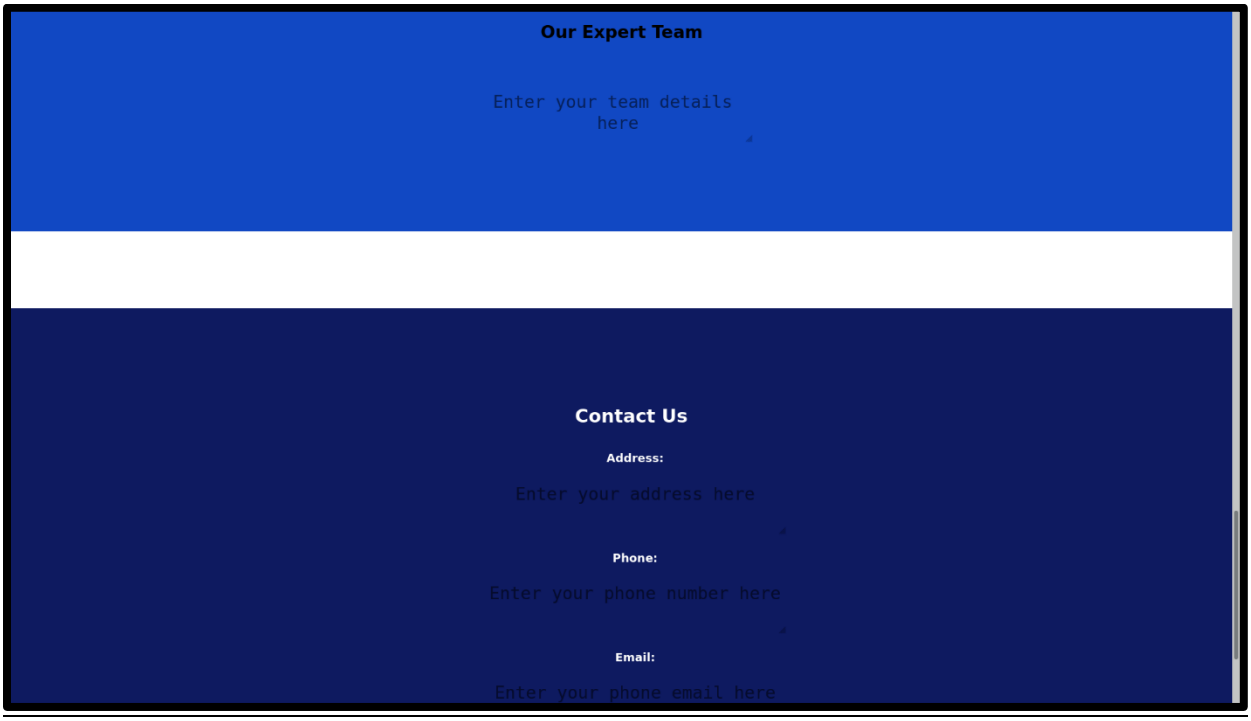
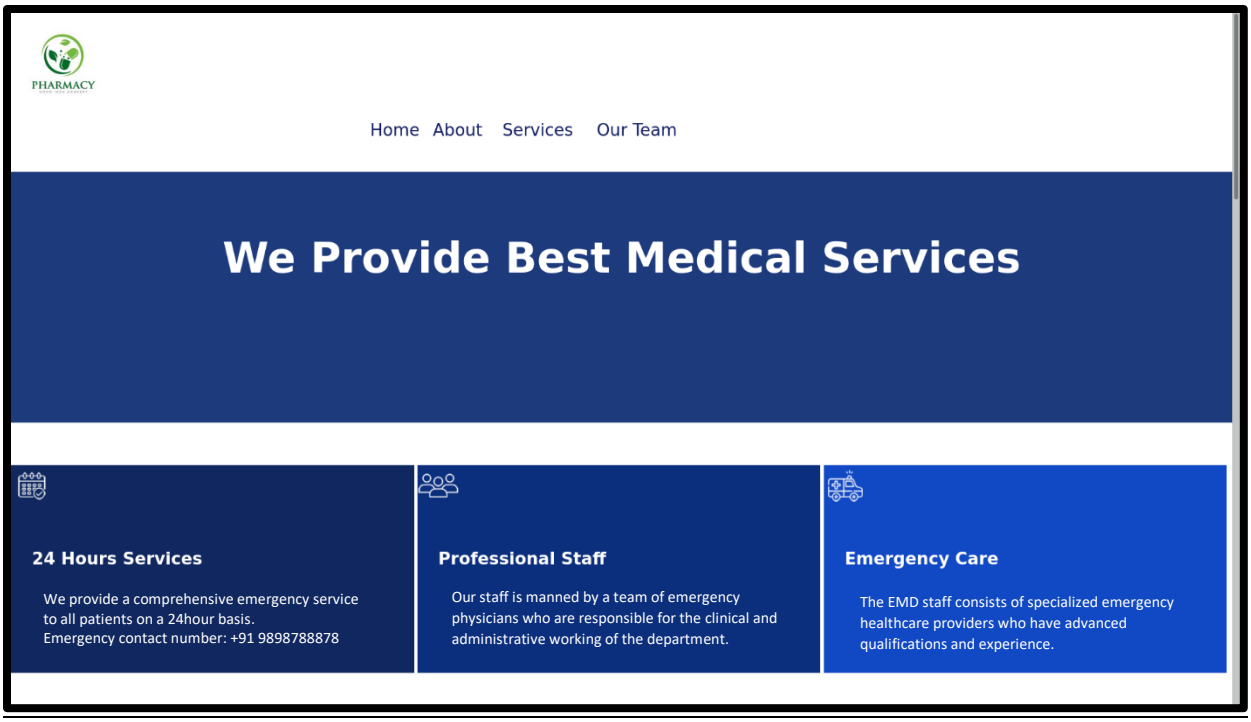
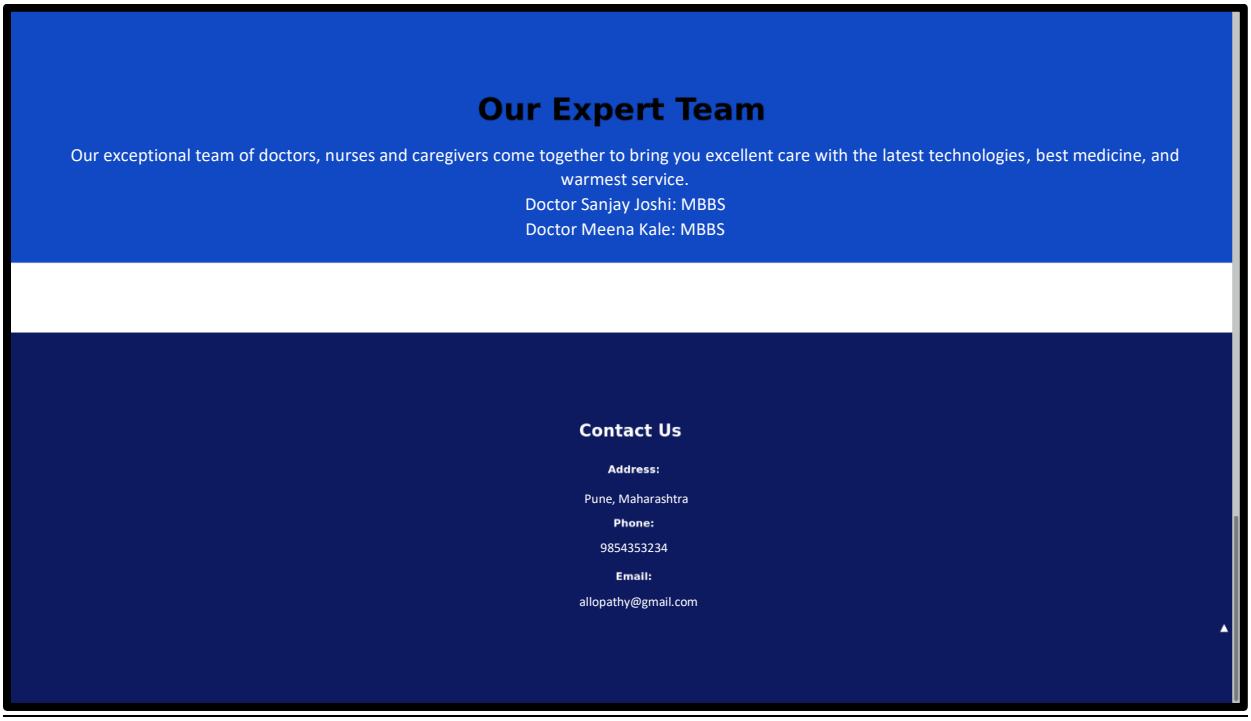




Allopathy form

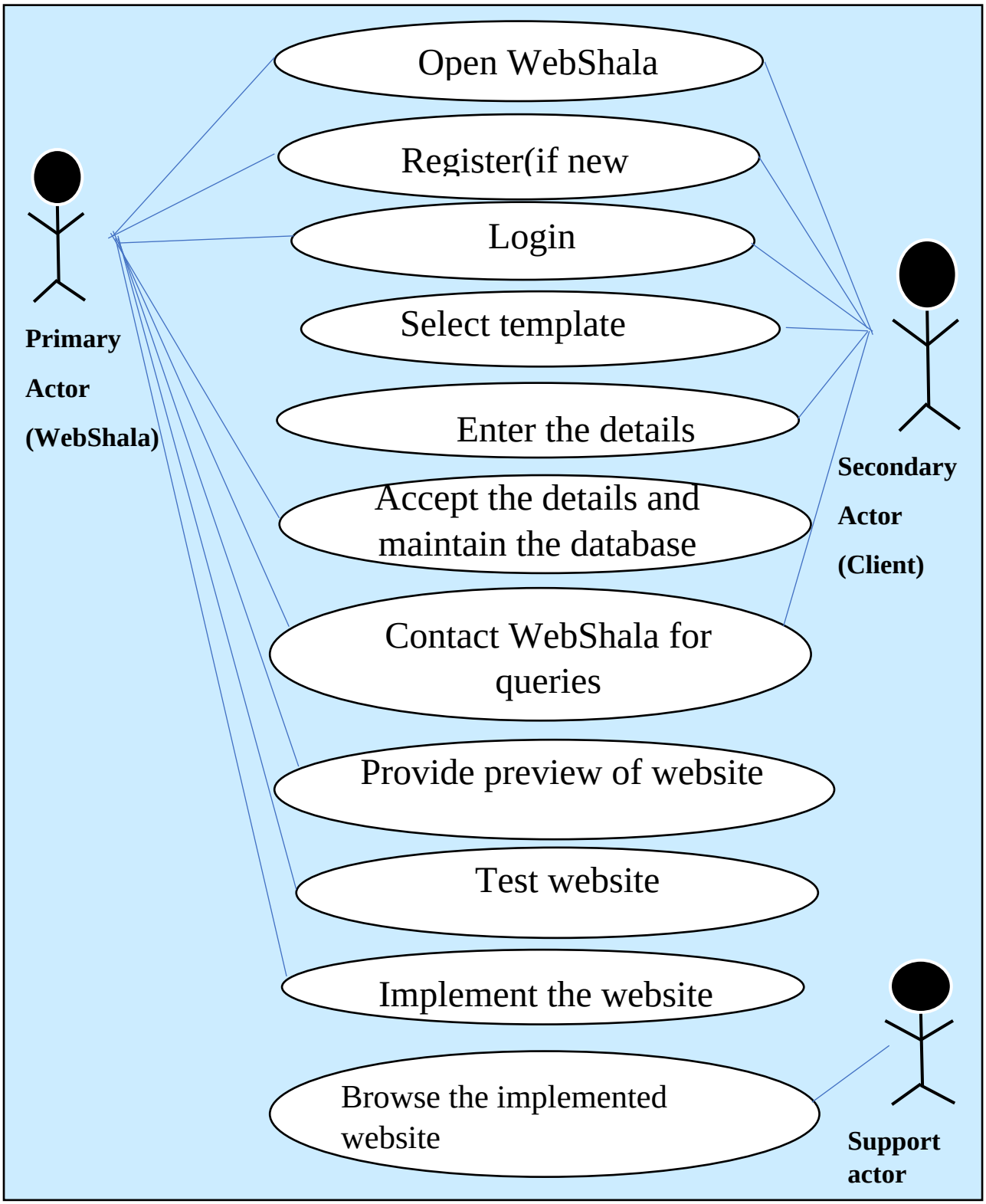




Allopathy Website for Preview

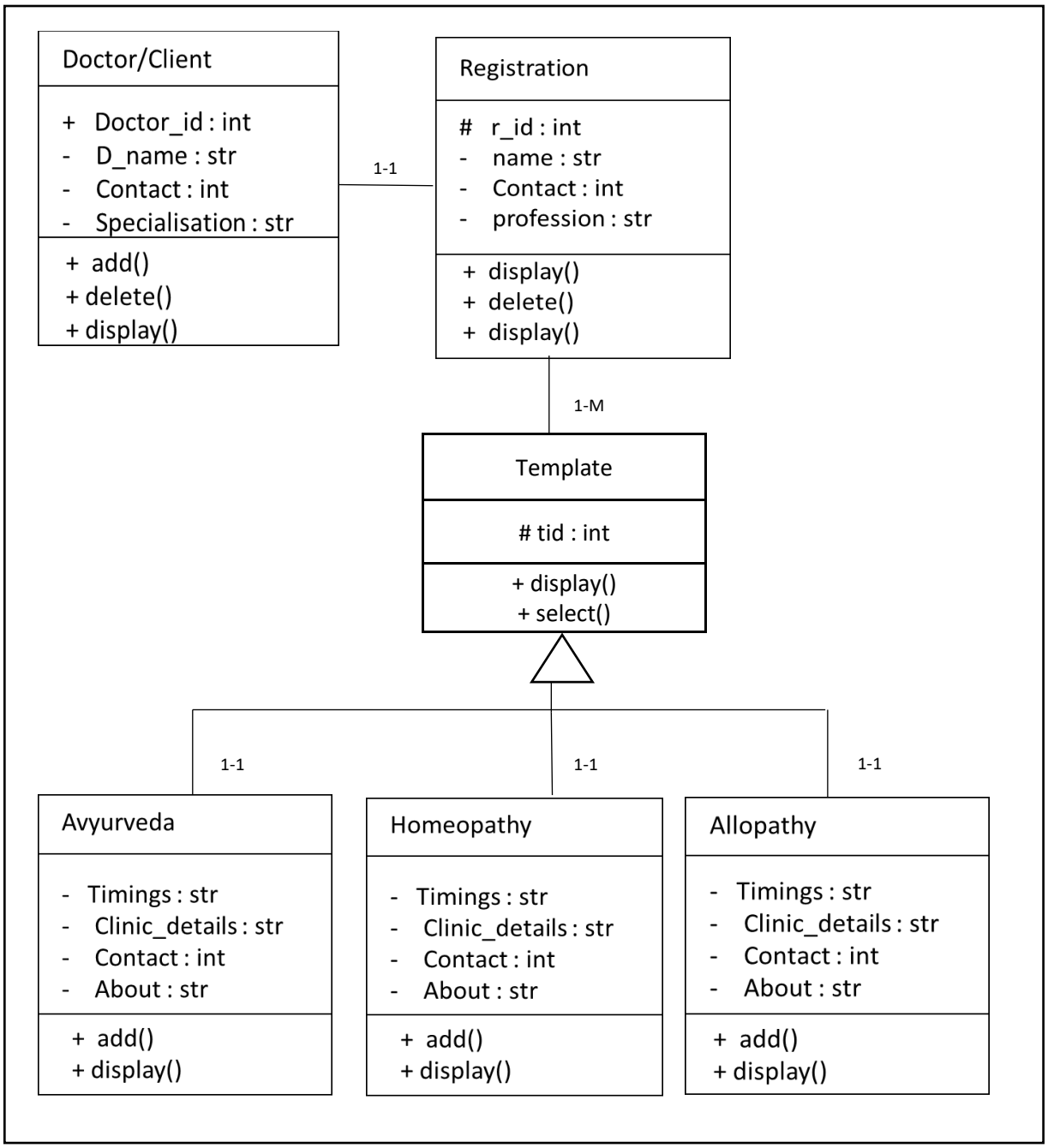
4. UML Diagrams

4.1



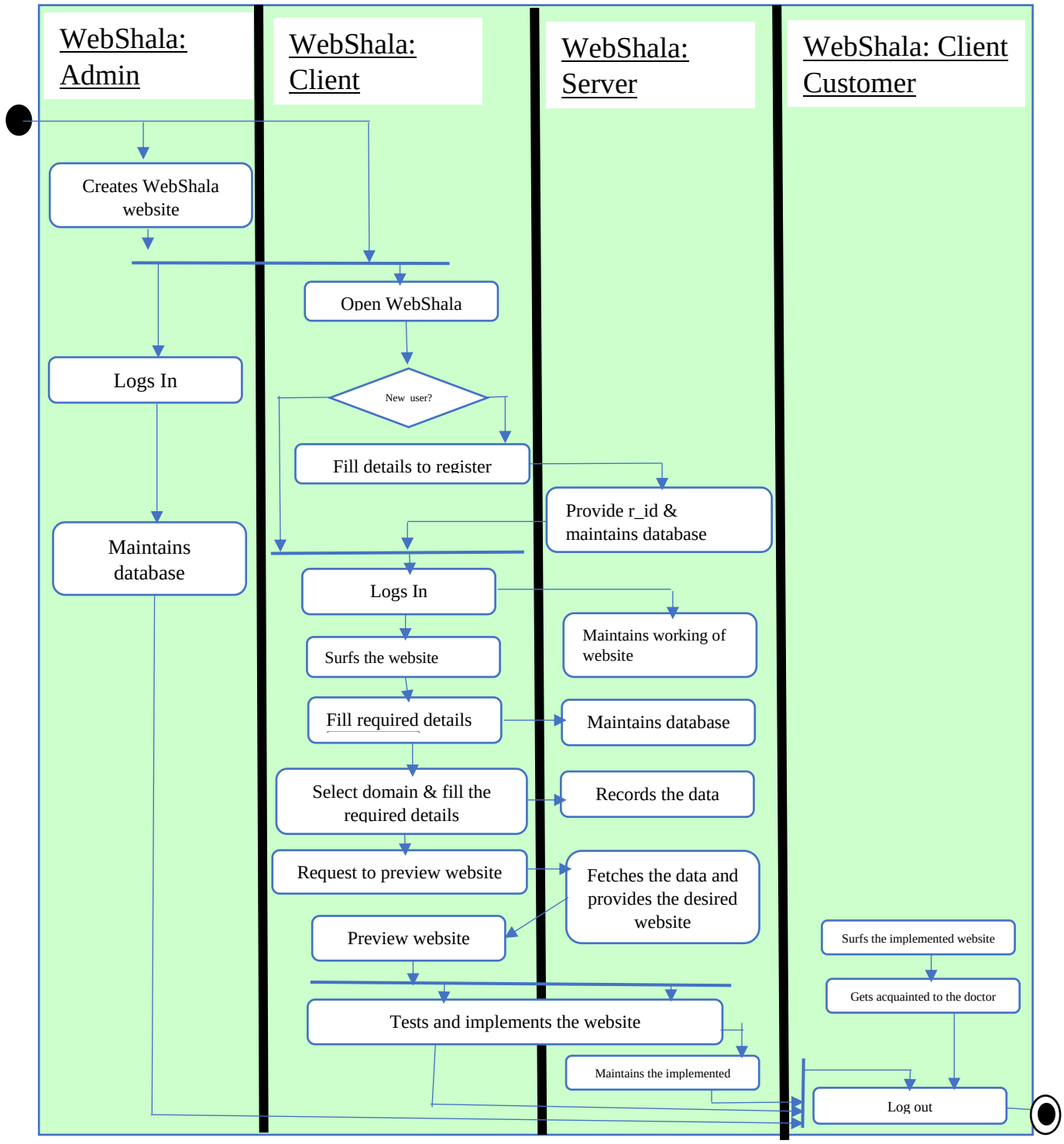
Use case diagram

4.2



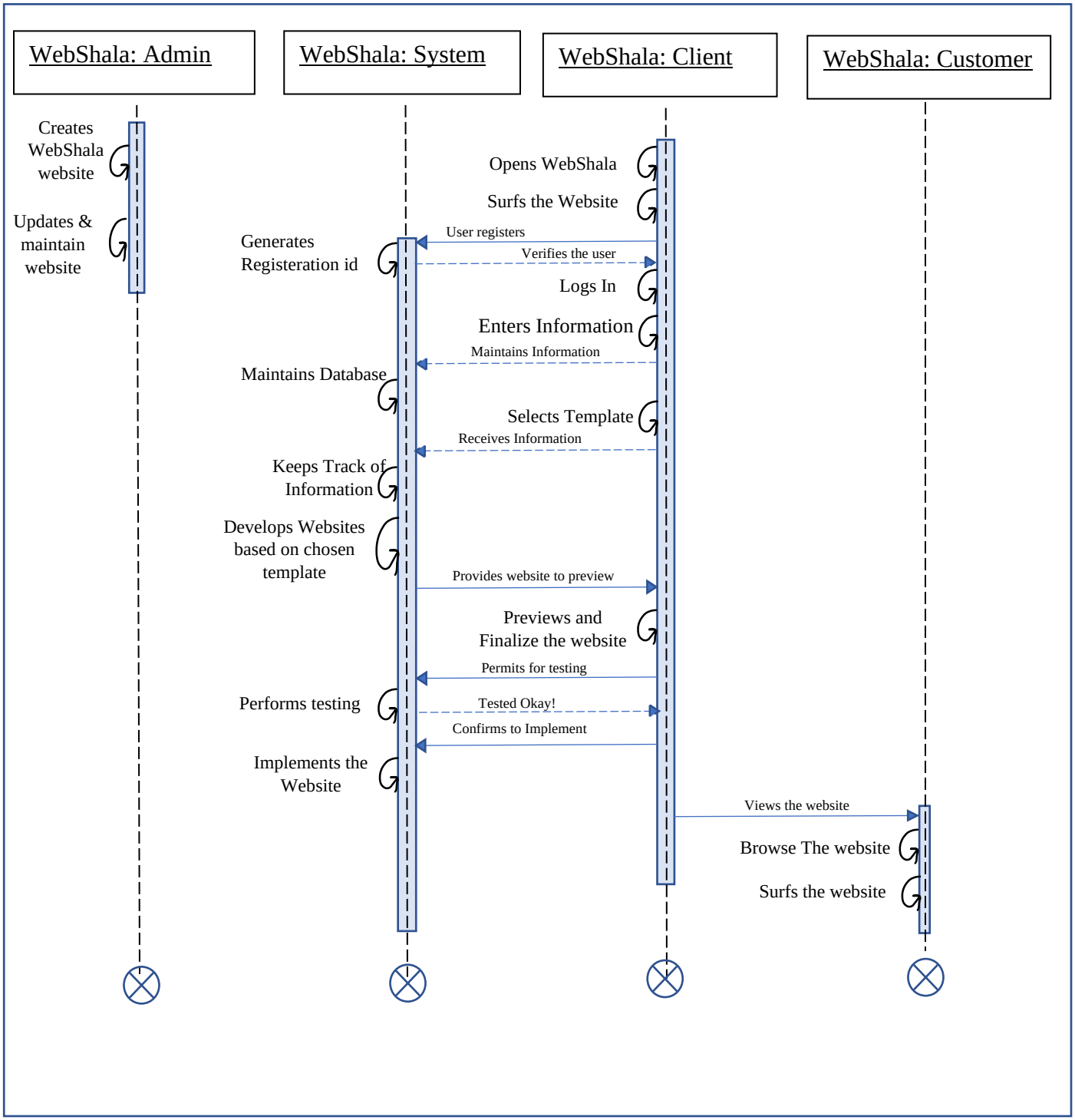
Class Diagram

4.3



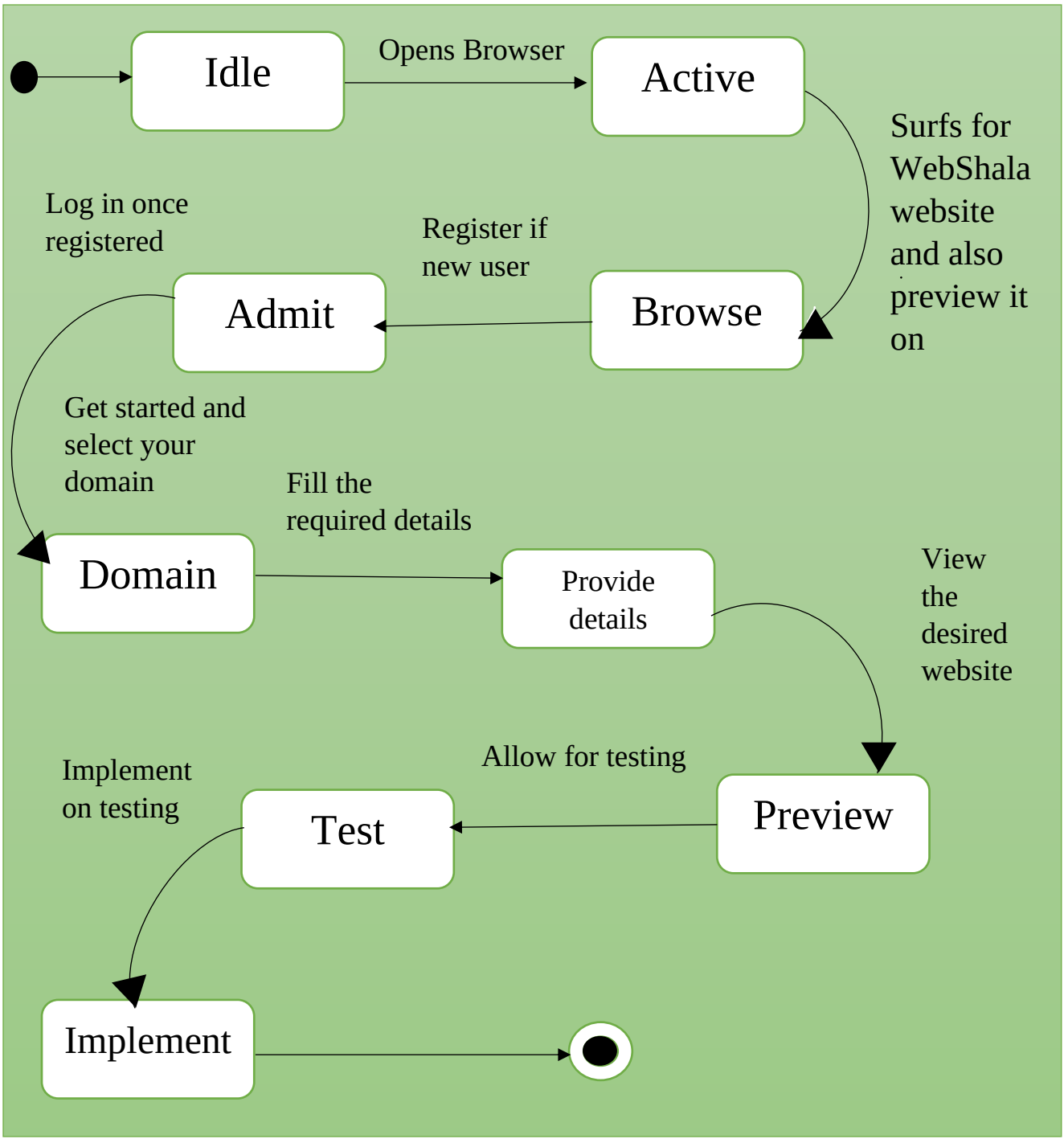
Activity Diagram

4.4



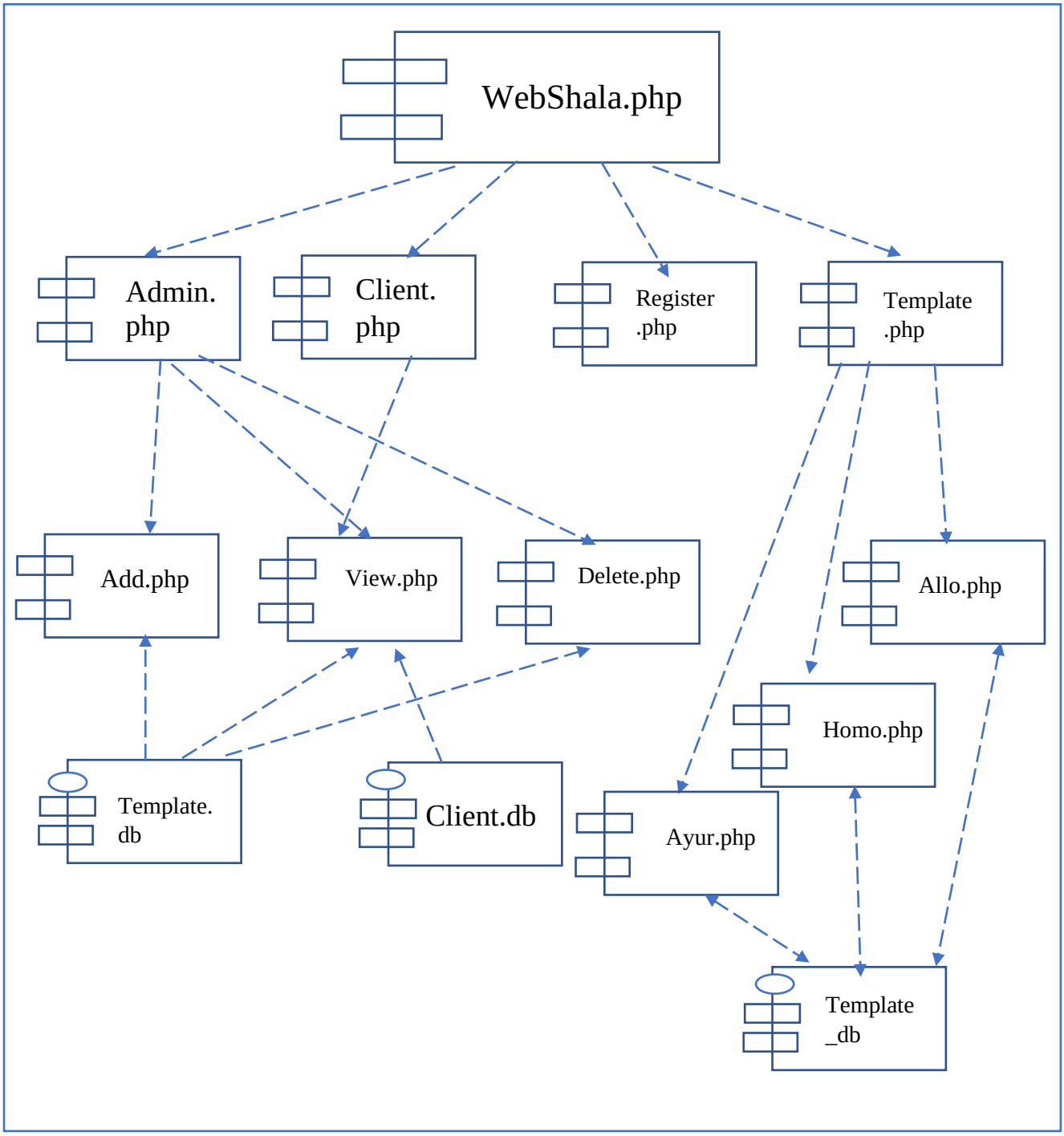
Sequence Diagram

4.5



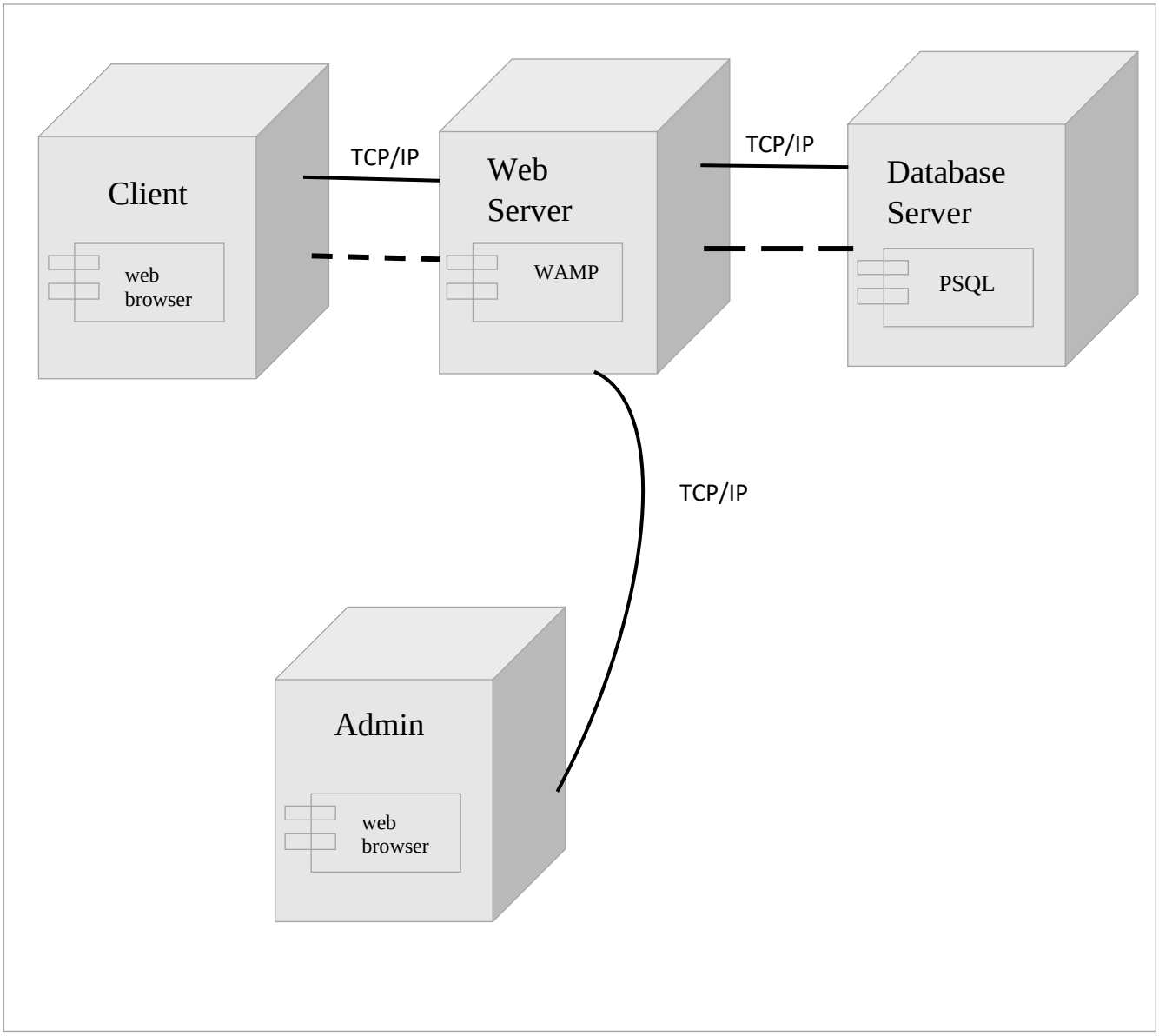
State Diagram

4.6



Component Diagram

4.7



Deployment Diagram

5 Coding

5.1 Hardware Specification

Components	Minimum Requirements
Operating System	Microsoft windows7 and above Linux
Graphics	Mesa Intel Graphics (RKL GT1)
Front-End	PHP Version 7.2.24
Back-end	PostgreSQL version 10.17

5.2 Programming Languages Used

Given below are some of the web technologies used for developing the website.

PHP

Hypertext Preprocessor (or simply PHP) is a server-side scripting language designed for Web development, but also used as a general purpose programming language. It was originally created by Rasmus Lerdorfin 1994, the PHP reference implementation is now produced by the PI-IP Group. PHP originally stood for Personal Home Page, but it now stands for the recursive

acronym PHP.

HTML

Hypertext Markup Language (HTML) is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript, it forms a triad of comer stone technologies for the World Wide Web. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document

CSS

Cascading Style Sheet (CSS) is a style sheet language used for describing the presentation of a document writes in a markup language like HTML. CSS isa corner stone technology of the world wide web(WWW), alongside HTML and JavaScript. CSS is designed to enable the separation of presentation and content, including layout, colors and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in separate .css file and reduce complexity and repetition in the structural content.

JavaScript

JavaScript is a dynamic computer programming language. It is lightweight and most commonly used as a part of web pages, who implementations allow client-side script to interact with the user and

make dynamic pages. It is an interpreted programming language with object-oriented capabilities. Client-side JavaScript is the mostcommon form of the language. The script should be included in or referenced by an html document for the code to be interpreted by thebrows

5.3 Coding Style Followed

Page Structure Design

The technology used here for describing the basic structure of the web pages in HTML (Hypertext Markup Language). HTML stands for Hypertext Markup Language, and it is the most widely used language to write web Pages .Hypertext refers to the way in which Web pages (HTML documents) are linked together. Thus, the link available on a webpage is called Hypertext.

Page layout/presentation design

CSS(Cascading Style Sheets) is the technology used here for describing the layout, colors, fonts ,etc., Cascading style sheets fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable. CSS handles the look and feel part of the page. Using CSS, you can control the color of the text, the style of the fonts the spacing between paragraphs are sized and laid out, what background images or color are used, layout designs, variations in display for different devices and screen sizes as well as variety of the other effects.

6. Testing

6.1 Test case design

Sr No	Test cases	Test Step	Expected Output	Status
1	Registration	It checks if all the required fields are correctly filled and all constraints are followed. • Valid Phone-no • Valid entry in re-enter password	If all the fields are correctly filled it will submit the data.	Successful
2	Login Page	The username and password will be checked and should match the data.	If data is matched it will allow login.	Successful
3	Forgot Password	Incase user forgets Password. Security question and username should match.	Password should be displayed with the username	Successful
4	Domain Selection	It will select the domain	Domain will be selected and form will be displayed. User has to fill appropriate details.	Successful
5	Preview	Provides an overview of the website	Preview the website	Successful

7. Limitations and Further Enhancements

- User cannot use the personalized backgrounds or quotes yet, which can be enhanced in future versions.
- User can use only one static landing page layout provided by WebShala
- No authentication for clients of user is provided.
- Future versions can improve the aforementioned problems.

8. Conclusion

WebShala is free for doctors who are real heroes who supported us in our dangerous time and with their learning and skills help us overcome the situation. A complete safe environment for doctors to spread awareness among the patients.

9. References and Bibliography

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