Project Report On Ask Your Doctor +



Submitted in partial fulfillment for the award of

Diploma in Advance Computing (E-DAC) from C-DAC, ACTS (Pune)



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1. Introduction of Project:

As much as we like to travel or move to new places either for the purpose of study or work we are constantly worried about one thing, what if I get sick. Where will I find a good doctor? Who will take care of me? In this web application we tried to provide a one stop solution to all these problems.

This web application provides the facility to book appointments online with specialists in user's locality. A user can look for a doctor based on his specialties and location, and then pick a time slot and book the appointment. The aim of our project is to bridge the gap between a patient and a doctor.

Ask Your Doctor is an error free, secure, reliable and fast web application. It will allow people to travel or move to new cities without worrying about their health. Anyone can consult with a doctor anytime anywhere. All it needs is a web browser and internet connection.

This project is inspired form post pandemic events when demands for medical attention were more than medical services provided. Our aim is to provide ease of consultation with a doctor and getting required treatment, along with that saving time of both doctors and patients.

One important point is that we do not provide home visit feature yet but we significantly reduce time of booking an appointment so you no longer have to wait in long queues.

2. Product Overview and Summary

Purpose:

The purpose of our Project "Ask Your Doctor" is to automate the process of getting medical treatment and health checkup in a way that saves both time and effort. It manages all the information of patient and doctors. The project is developed at administrative end and thus only the administrator is guaranteed to have access to everything. The purpose of this project is to create a web application that reduces the manual efforts of looking for a doctor and booking appointments.

Scope:

Ask Your Doctor is a web application that can be used by anyone anywhere whenever they fell sick and are in need of medical treatment or just wants to get a routine checkup. This service is also a boon for those young doctors who just started their practice.

The application provides a user-friendly interface to search for doctors of different specializations in the user's proximity.

Overview:

Section 3.0, the Overall Description, provides an overview of the components and the relationship between them. Section 4.0 provides the Specific Requirements of the product. In the subsection (4.1) of which the various functional requirements and various interface respectively are discussed. Section 5.0 describes Database Design details.

Feasibility Study

It is important to analyze whether it is feasible to develop a project or not and that can it be completed in given time or not.

Before developing and implementing a system we have to make sure that the system is feasible in the following ways:

- 1. Technical Feasibility
- 2. Operational Feasibility
- 3. Economical Feasibility

• Technical Feasibility:

In this type of feasibility study, the system analyst has to check whether it is possible or not to develop the requested system with availability of manpower, software, hardware, etc.

Operational Feasibility:

In this type of feasibility study the operation implementation of the system is considered. Checking is done regarding whether it is feasible for the user department to use the framework. Thus, the proposed system is said to be operationally feasible only if the clients are able to understand the system clearly and correctly and can use the system with ease.

Economical Feasibility:

In this type of feasibility study, the benefits of the system to the organization are considered by taking into consideration the cost-benefit analysis. The minimal requirement for this is a computer and an internet connection, which is available to everyone nowadays. Also, with the basic understanding user can use this system, thus reducing the training cost to the organization.

3. Overall Description:

Product Features

The main feature of this system is that the users can book an appointment from doctors nearby. This is beneficial for both patient and doctor as it saves their precious time & efforts. Users can also look for blood donors.

Technologies Used

BACK END

J2EE

Spring-boot

DATABASE

MYSQL

FRONT END

React JS

Bootstrap

User Classes

There are three types of user to this system:

- 1.) **Admin**: Admin can add or remove both doctors and blood donors; additionally admin can remove patients as well. He/she also maintains the overall system.
- 2.) **Patient**: Patients can pick a time slot of their convenience and book appointments with doctors nearby. Patients can view their appointment history as well.
- 3.) **Doctor**: Doctor can receive appointment details of patient. Doctors can create appointment time slots as per their convenience. A doctor can also cancel his/her appointment with a patient in case of emergency.

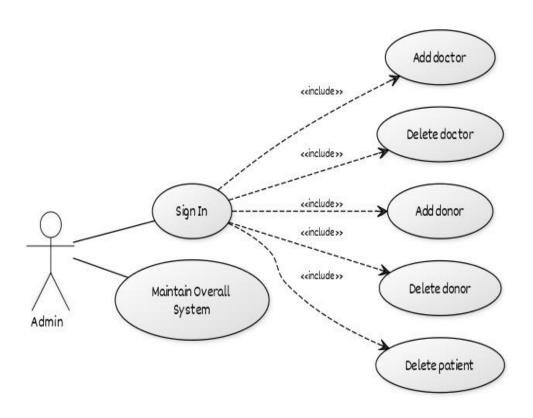
General Constraints

The "Ask Your Doctor" application should run on all desktop computers having a web browser with stable internet connection.

4. REQUIREMENTS

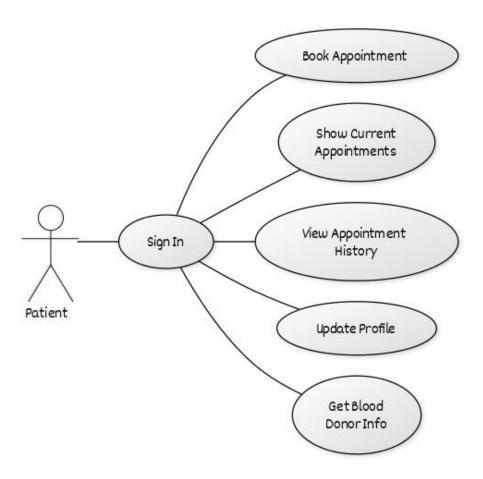
4.1 FUNCTIONAL REQUIREMENTS

ADMIN



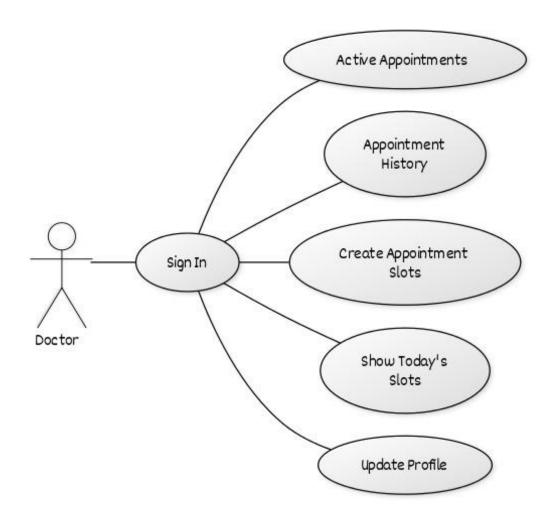
CREATED WITH YUML

PATIENT



CREATED WITH YUML

DOCTOR



CREATED WITH YUML

5. Design:

Database Design

The following table structures depict the database design.

Table 1: Patient

Key Type/ Constraint	Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
PK	id	bigint		0
	first_name	varchar	30	1
	last_name	varchar	30	1
UK	email	varchar	30	1
	mobile_number	varchar	10	0
	password	varchar	30	0
UK	username	varchar	30	1
	dob	date		1
	gender	varchar	20	1
	area	varchar	50	1
	city	varchar	30	1
	state	varchar	30	1

Table 2: Admin

Key Type/ Constraint	Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
PK	id	bigint		0
	email	varchar	20	0
	name	varchar	20	0
	password	varchar	20	0

Table 3: Doctor

Key Type/ Constraint	Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
PK	id	bigint		0
	first_name	varchar	30	1
	last_name	varchar	30	1
	password	varchar	30	0
UK	username	boolean	30	1
	dob	date		1
	gender	varchar	20	1
	mobile_number	varchar	10	0
	area	varchar	50	1
	city	varchar	30	1
	state	varchar	30	1
	fees	int		1
	languages	varchar	30	1
	qualification	varchar	30	1
	specialization	varchar	30	1
UK	email	varchar	30	1
	began_practice	date		1
	time_slot_id	bigint		1

Table 4: Appointment

Key Type/ Constraint	Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
PK	id	bigint		0
	appointment_time	datetime	6	1
	appointment_type	varchar	255	1
FK	doctor_id	bigint		0
FK	patient_id	bigint		0

Table 5: Doctor Timetable

Key Type/ Constraint	Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
PK	id	bigint		0
	break_time	time		1
	Start_time	Time		1
	End_time	Time		1
	Start_date	Date		1
	End_date	Date		1
	Slot_duration	int		0

Table 6: Blood Donor

Key Type/ Constraint	Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
PK	id	bigint		0
	name	varchar	30	1
	email	varchar	30	1
	contact_number	varchar	10	1
	city	varchar	30	1
	state	varchar	30	1
	blood_group	varchar	255	1
	units_of_blood	int		1

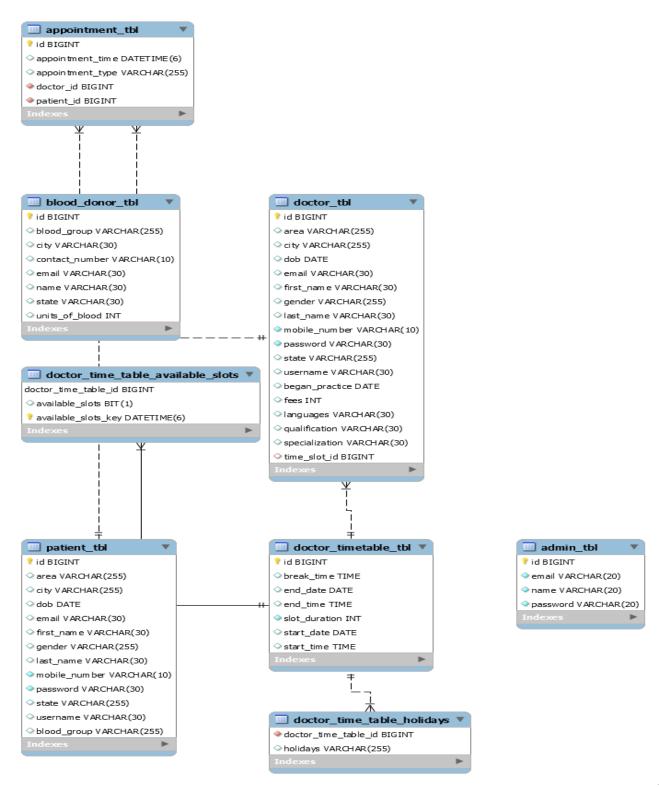
Table 7: Doctor Time Table Available Slots

Key Type/ Constraint	Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
PK	doctor_time_tabl e_id	bigint		0
	Available_slots	bit	1	1
CPK	available_slots_k ey	datetime	6	0

Table 8: Doctor Time Table Holiday

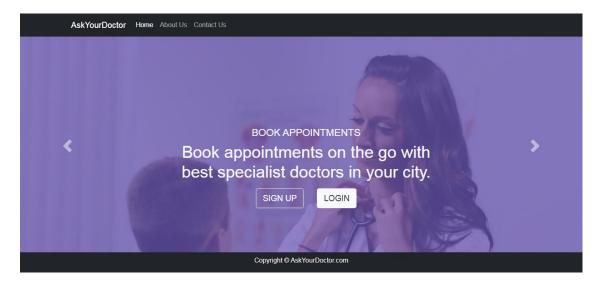
Key Type/ Constraint	Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
FK	doctor_time_table id	bigint		0
	holidays	varchar	255	1

5.2 ER Diagram



6. Interface:

1. Home Page



2. About Us



Ask Your Doctor is a platform for booking medical consultations with specialist doctors in your city online. Patient can book an appointment by selecting any or the time slot given by doctor.

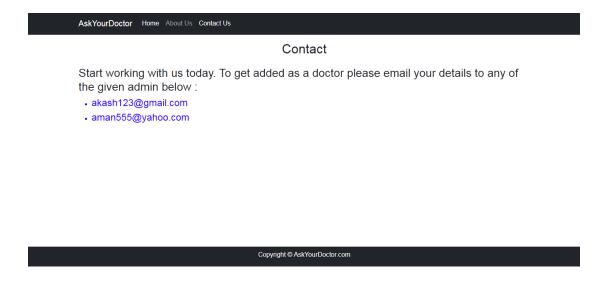
Some additional functionalities are - user can search doctor by specialization and city, both user and doctor can manage their booked appointments, both can manage their appointment history, verification of doctor's credentials by admin and users can get information about blood donors in their city.

Regards, from creators:

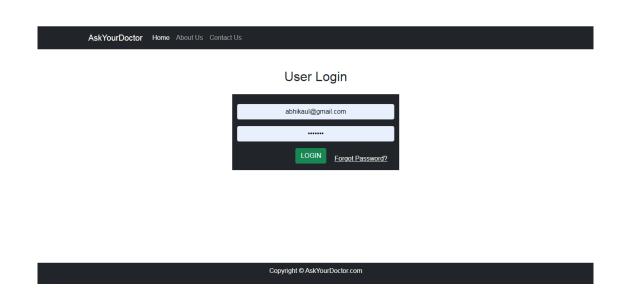
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- Abhishek Kaul
- Akash AutiAman Saxena
- Aman Saxena
 Shanur Firoj

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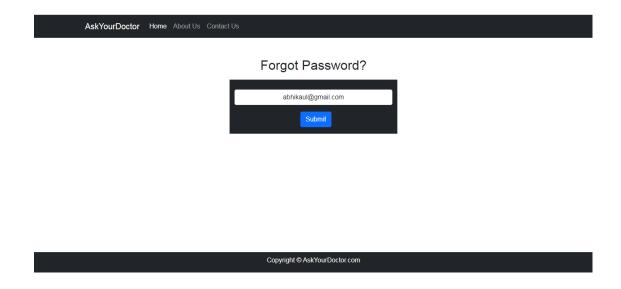
3. Contact Us



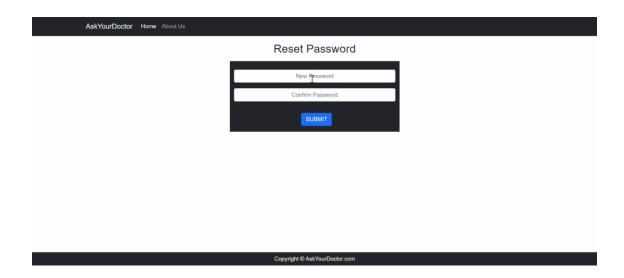
4. Log In



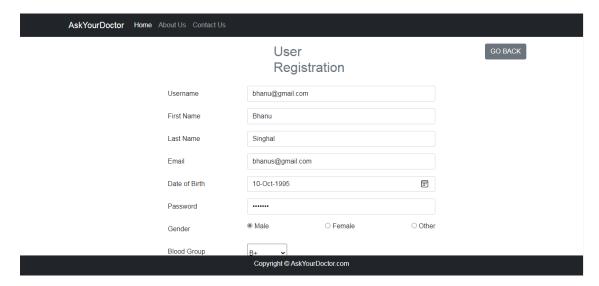
5. Forget Password



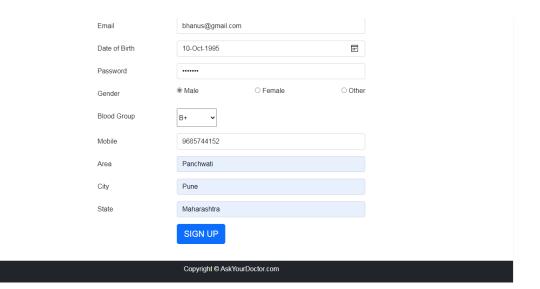
6. Reset Password



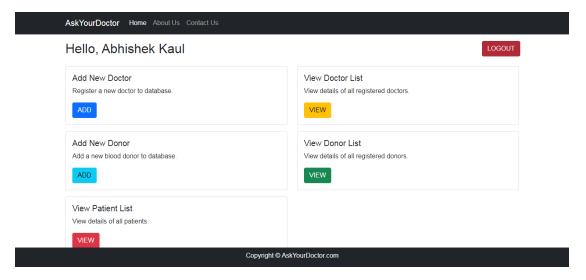
7. Registration Page



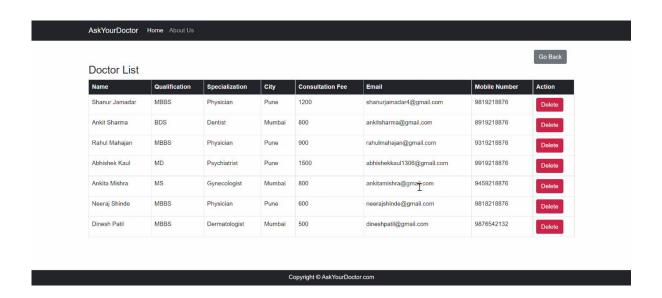
8. Registration Page



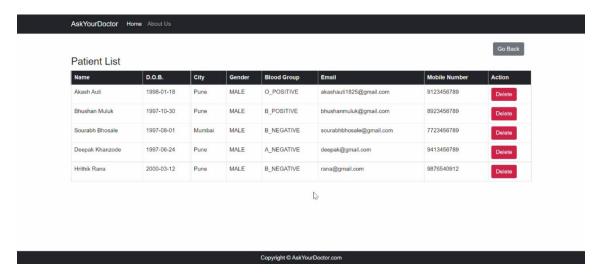
9. Admin Page



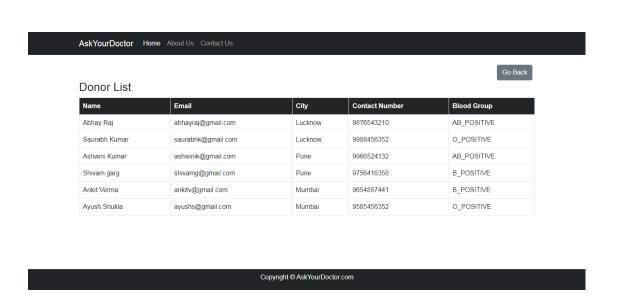
10. Admin - Doctor List



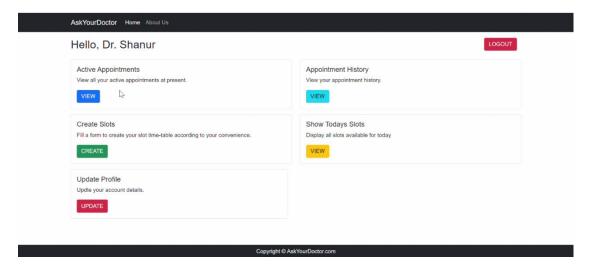
11. Admin - Patient List



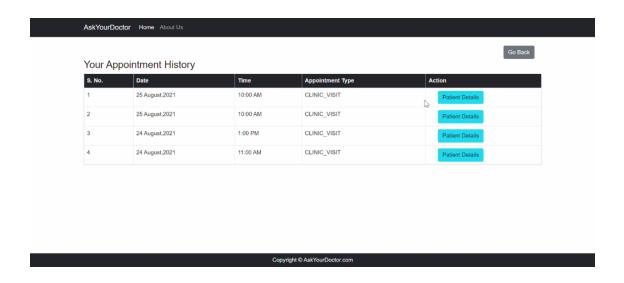
12. Admin - Donor List



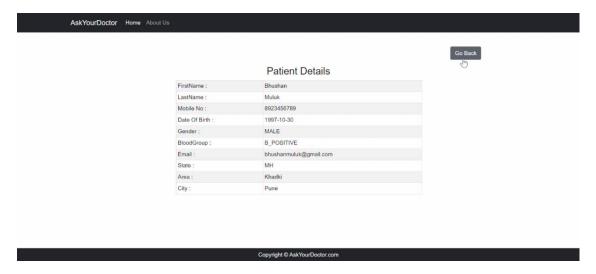
13. Doctor Page



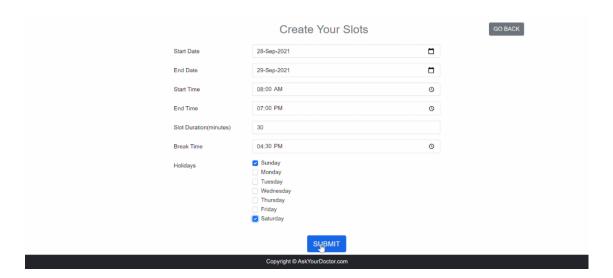
14. Doctor - Appointment History



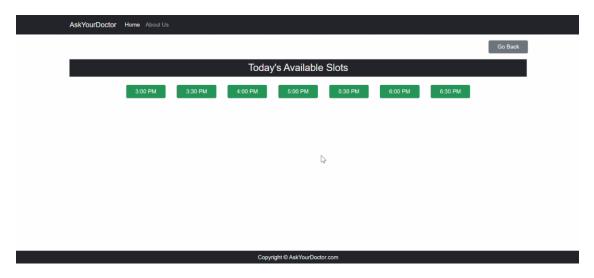
15. Doctor - Patient Details



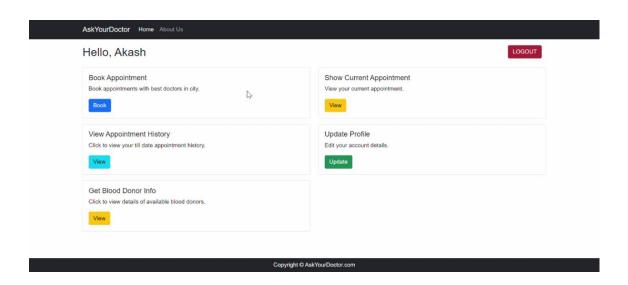
16. Doctor - Create Appointment Slot



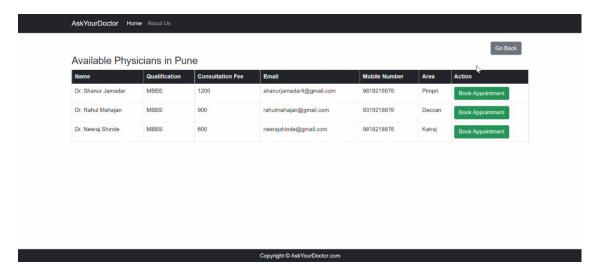
17. Doctor - Available Slots



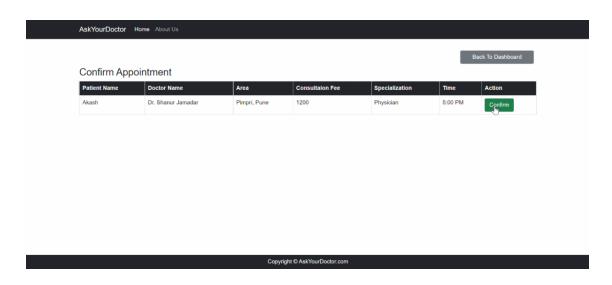
18. Patient Page



19. Patient - Available Doctors



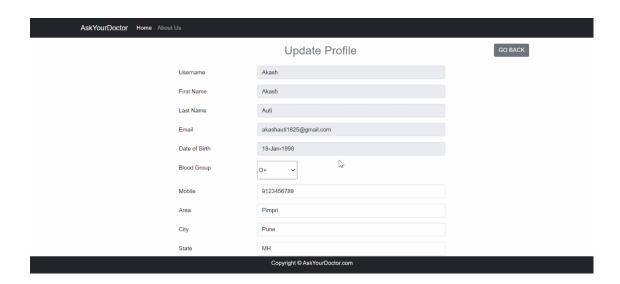
20. Patient - Book Appointment



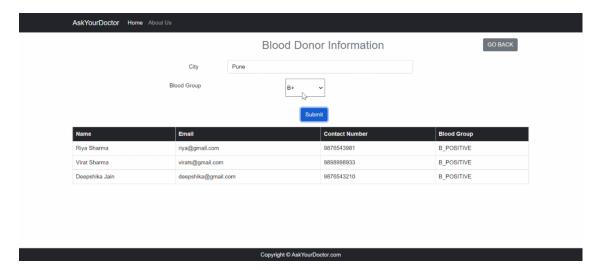
21. Patient - Active Appointment



22. Update Profile



23. Blood Donor Info



7. TEST REPORT

The report of the testing is given here under.

Project Name: - Ask Your Doctor

Sr. No	Test Case Title	Description	Expected Outcome	Error Message	Result
1	Login Page- Admin	If User email=Admin email, Password= Admin Password	If Validated allow for Admin Home Page If not redirect to same page	Username and password required	Passed
2	Login Page – User	If User email=User email, Password= User Password	If Validated allow for User Home Page If not redirect to same page	Username and password required	Passed
3	Register Page- User	Input all registration details	If proper details are entered then verification mail is sent	Error in input field constraint/ verification email failed	Passed
4	Home page Displayed	Homepage display.	Home Page Displayed	No Error	Passed
5	Appointment Booking	Search doctors after successful login.	Doctor info shown	No Error	Passed
6	Appointm ent History	List of previous appointments	List of previously booked appointmen ts	No Error	passed
7	Create slot for doctor	Appointment slots creation for doctor	Slots created	No Error	Passed
8	Update profile	Change profile details	Profile updated	Not updated	Passed
9	Log out	User / Admin can logout by using Logout link	Back to login	No Error	Passed

8. SOFTWARE DEVELOPMENT METHODOLOGY:

Scrum Agile methodology was used.

9. FUTURE SCOPE:

- 1. We will be providing Payment Gateway so user can pay online.
- 2. We will Increase its deployment in all major cities.
- 3. Lab test feature will be added.
- 4. Feedback form will be added.
- 5. Home Visit facility will be added.

10. REFERENCES:

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