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# **Document Status: Approved**

# **List of Abbreviations**

DFD Data Flow Diagram E-R Entity Relationship

RS Requirement Specification

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## 1. Introduction

### 1.1 Purpose

The purpose of the Medical Service Automation System project is to provide medical services online and maintain all the necessary documents in electronic format. Here we can have all the details of doctors, Inpatients, clerks, billing department. It aims to provide the doctor appointment booking and live chat option between doctor and patient. It provides an option for both doctor and patient to view previous e-prescriptions.

## 1.2 Scope

The scope of the project includes comprehensive functionality for managing details of doctor, In-patient, and provide booking appointment facility, provide live chat option for doctor and patient, and calculating the billing expenses of the patient.

## 1.3 Definitions, Acronyms and Abbreviations

Not Applicable

### 1.4 References

Not Applicable

### 1.5 Coordinators

1. Harshavardhan Reddy

# 2. Software Requirements

# 2.1 Operational Requirements

Administrator Module:

- 1. The admin should be able to add new users to the system.
- 2. The admin should be able to modify the user details in the system.

### Clerk Module:

- 1. The clerk should be able to add new In-patient details in the system.
- 2. The clerk should be able to modify new In-patient details in the system.

### Doctor Module:

- 1. The doctor should be able to manage his details.
- 2. The doctor should be able to give appointments to the patients.
- 3. The doctor should be able to view previous e-prescriptions of the patient.
- 4. The doctor should be able to interact with the patient using live chat.

#### Patient Module:

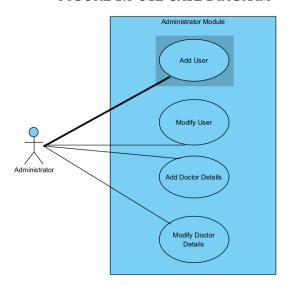
- 1. The patient should be able to manage his details.
- 2. The patient should be able to book an appointment with a doctor.
- 3. The patient should be able to view his previous e-prescriptions.
- 4. The patient should be able to interact with the doctor using live chat.

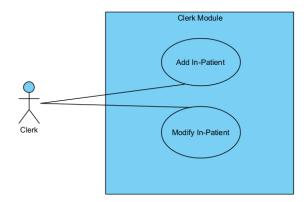
#### Billing Department Module:

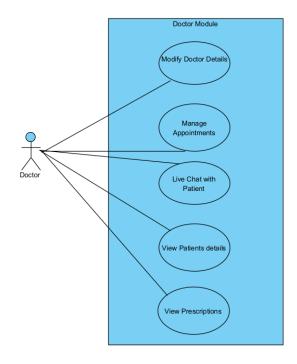
- 1. The billing department should be able to calculate the expenses of the patient.
- 2. The billing department should be able to verify the eligibility of insurance and process the payment further.

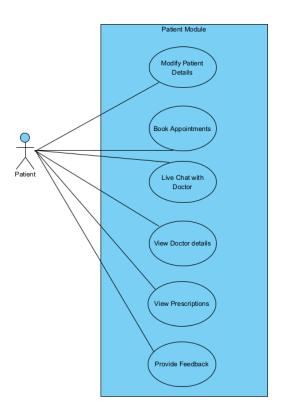
# 2.2 Functional Requirements

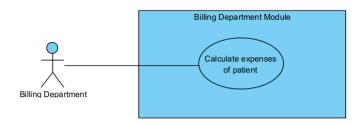
FIGURE 2.1 USE CASE DIAGRAM











### Login

Requirement Tag ID	RS-1-1	RS-1-1		
Source/Trigger	Initial Login	Initial Login		
Description	Input	Input username and password		
	Process	The system verifies the entered credentials against stored user credentials and grants access if valid.		
	Output	Successful authentication and routing to respective modules.		
Validation Method		Verify the correctness of user credentials, authenticate against stored data, and handle incorrect login attempts.		

### Manage Users

Requirement Tag ID	RS-1-2		
Source/Trigger	Administrator	Administrator	
Description	Input	User details will be filled up	
	Process	The administrator will fill in the details of user and administrator can update the details whenever required	
	Output	The required data is updated in the Database	
Validation Method			

### Manage Doctor Details

Requirement Tag ID	RS-1-3		
Source/Trigger	Administrator	Administrator / Doctor	
Description	Input	The details of the doctor are filled in respective text fields	
	Process	The administrator will fill in the details of doctor and later both administrator and doctor can update the details	
	Output	The required data is updated in the Database	
Validation Method			

## Manage In-patient Details

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	Requirement Tag ID	RS-1-4
	Source/Trigger	Clerk

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Description	Input	The details of In-Patient are filled in respective text fields
	Process	The clerk will fill in the details of In-Patient and later clerk can update the details whenever required
	Output	The required data is updated in the Database
Validation Method		•

## Appointments

***************************************				
Requirement Tag ID	RS-1-5	RS-1-5		
Source/Trigger	Doctor and p	Doctor and patient		
Description	Input	Patient will book appointment at required date and time slots available		
	Process	The doctor will manage the appointments and confirms them		
	Output	The appointment will be confirmed		
Validation Method				

Live Messaging

Live messaging			
Requirement Tag ID	RS-1-6		
Source/Trigger	Doctor and p	Doctor and patient	
Description	Input	The doctor and patient will interact with each other	
	Process	The patient can reach out to the doctor with live chat option whenever required	
	Output	The interactions happen between doctor and patient	
Validation Method		•	

### Feedback

Requirement Tag ID	RS-1-7	
Source/Trigger	Patient	
Description	Input	The patient will give his feedback of doctor
	Process	The feedback provided by the patient will be forwarded to the admin
	Output	The feedback will be taken of doctor service
Validation Method		

### Billing

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	Requirement Tag ID	RS-1-8		
	Source/Trigger	Billing Department		
	Description	Input	The billing department fill in the expenses and details	
			of the patient	

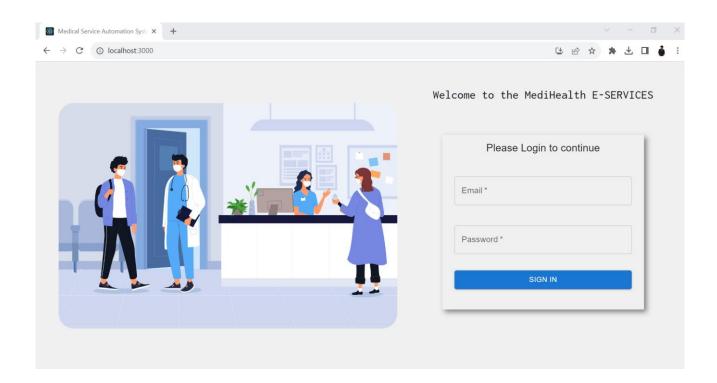
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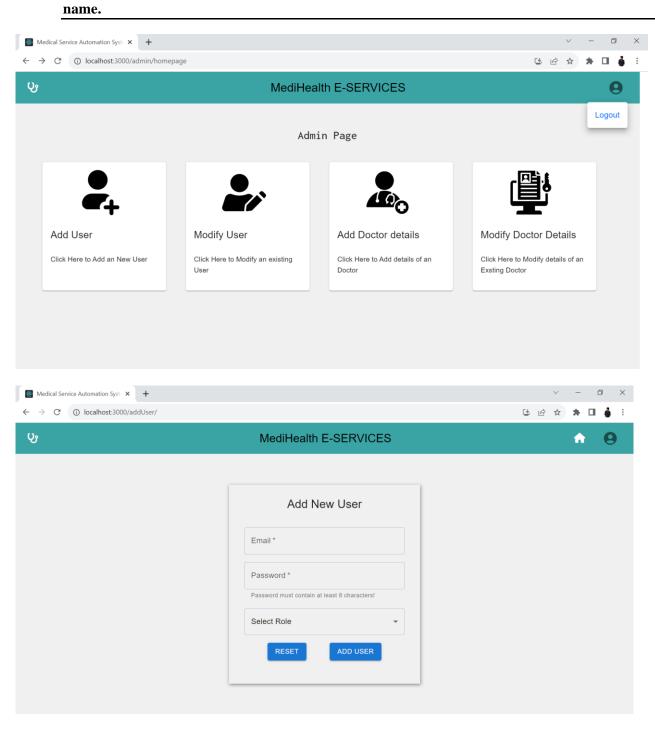
	Process	The billing department calculates the expenses and verifies the eligibility of insurance
	Output	The bill will be processed further based on insurance eligibility
Validation Method		

View Prescription

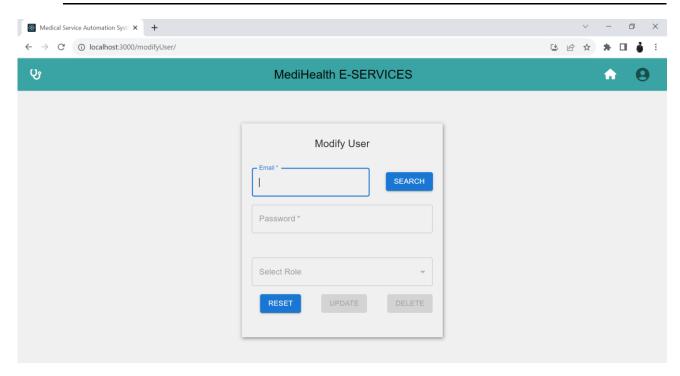
Requirement Tag ID	RS-1-9	RS-1-9		
Source/Trigger	Doctor and P	Doctor and Patient		
Description	Input Previous e-prescriptions will be available			
	Process	Both doctor and patient can view previous e- prescriptions whenever required		
	Output	The documents will be accessible		
Validation Method		•		

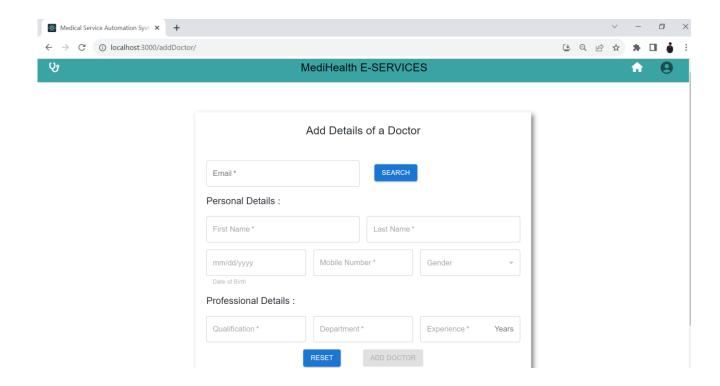
# 2.3 User Interface Requirements



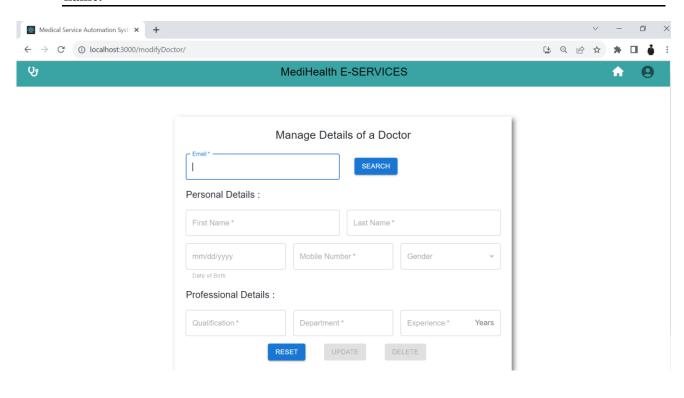


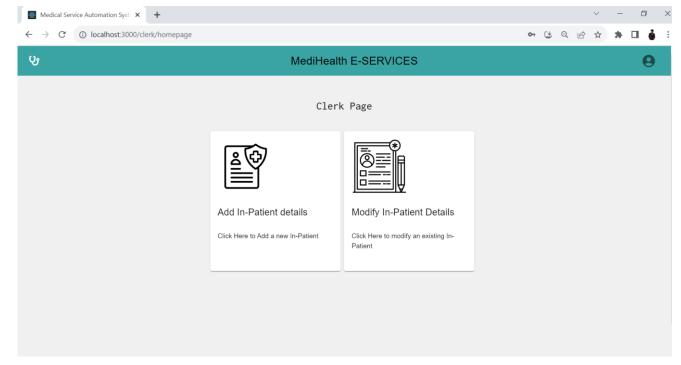
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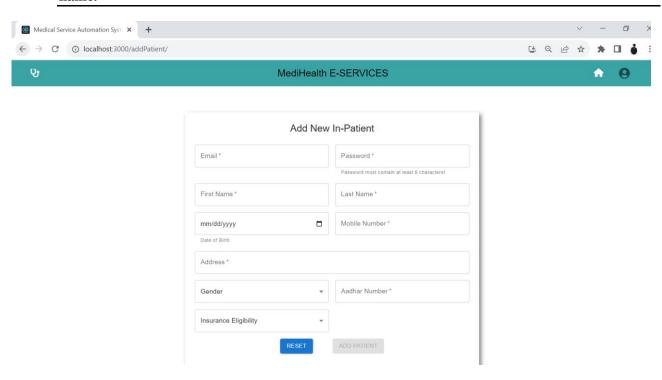


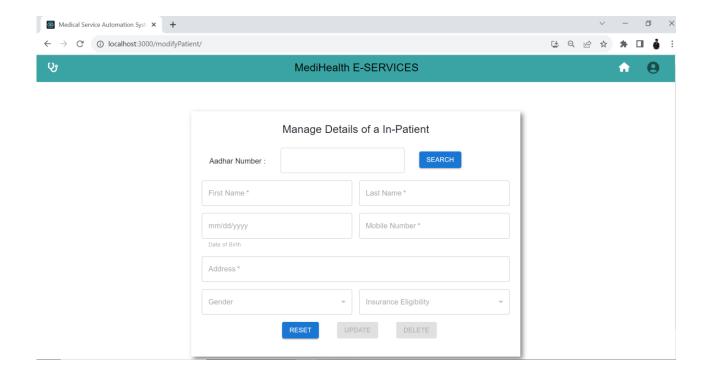
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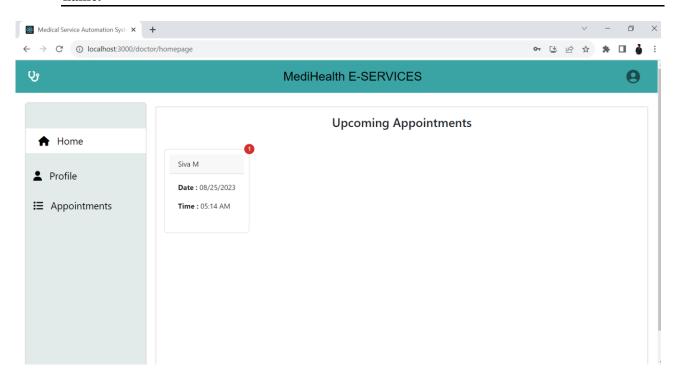


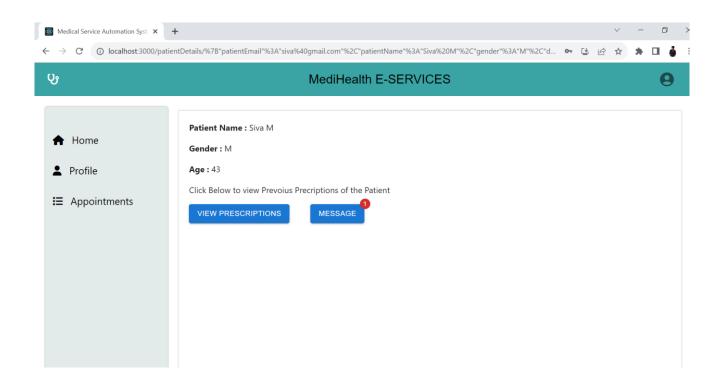
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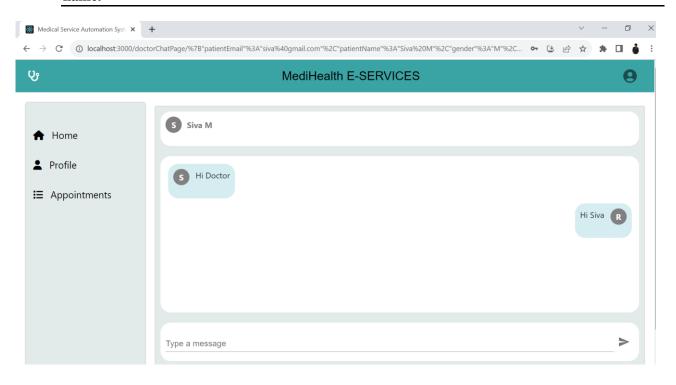


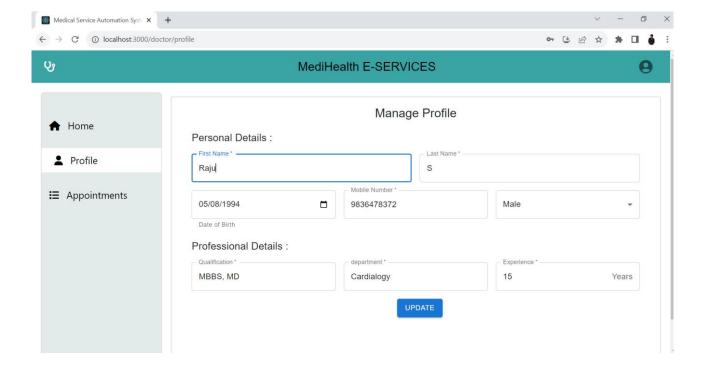
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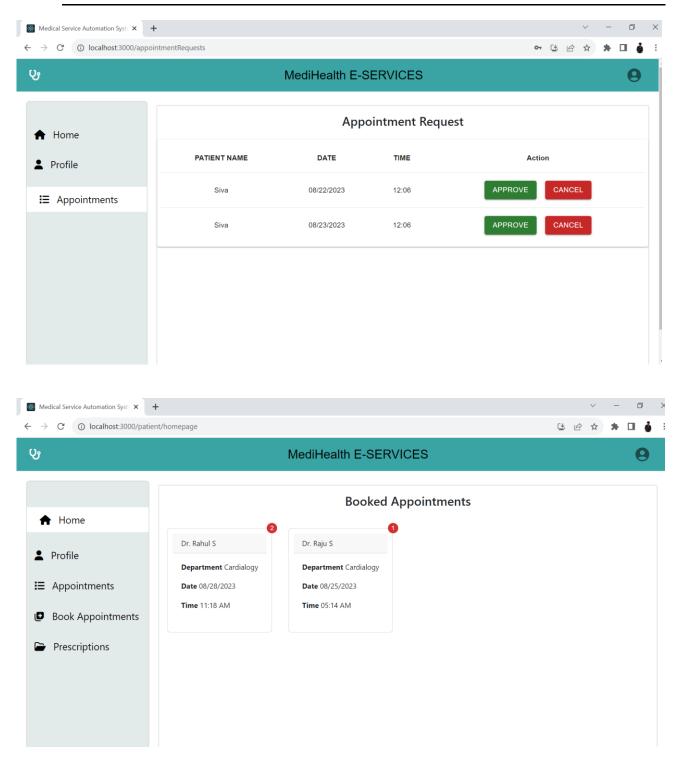


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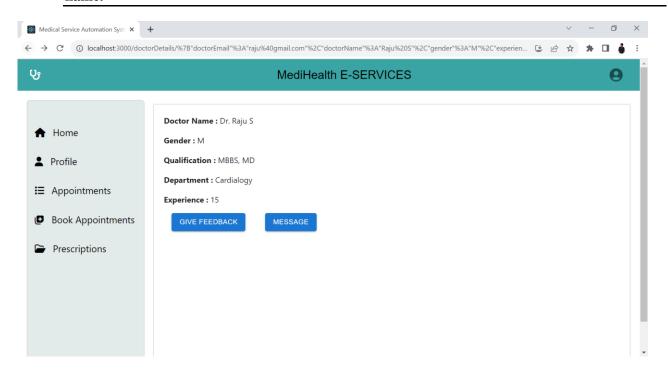


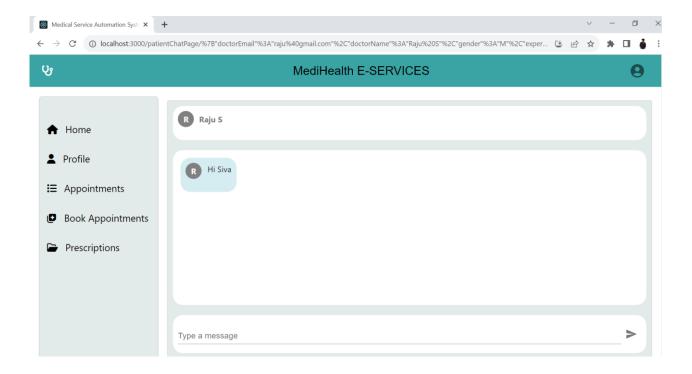


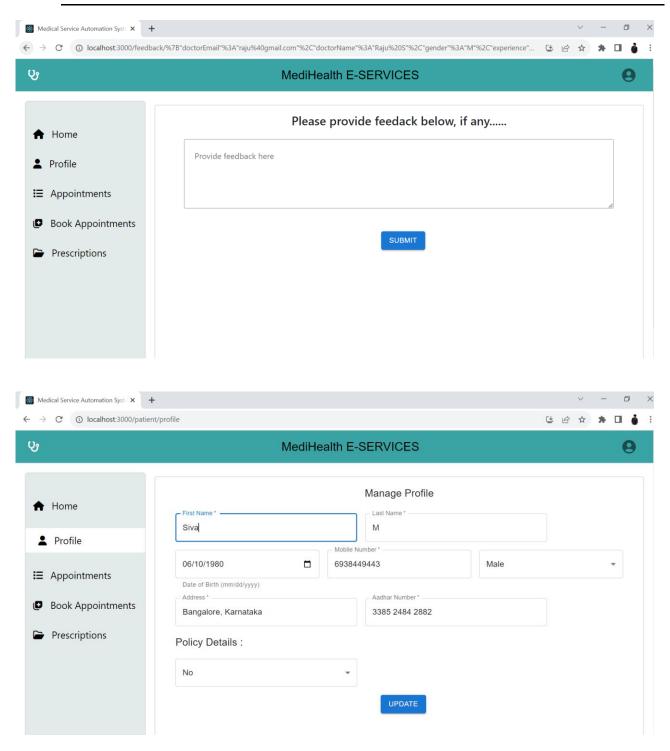
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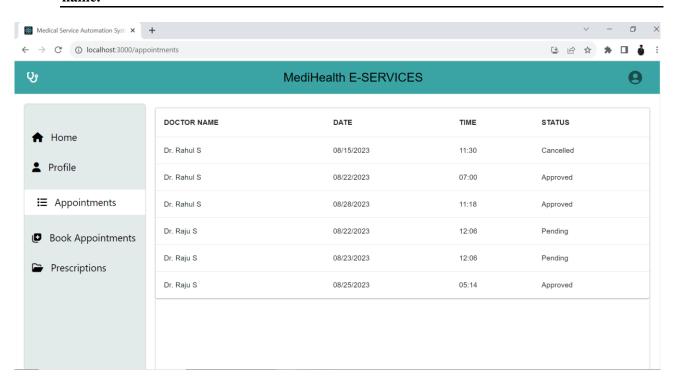


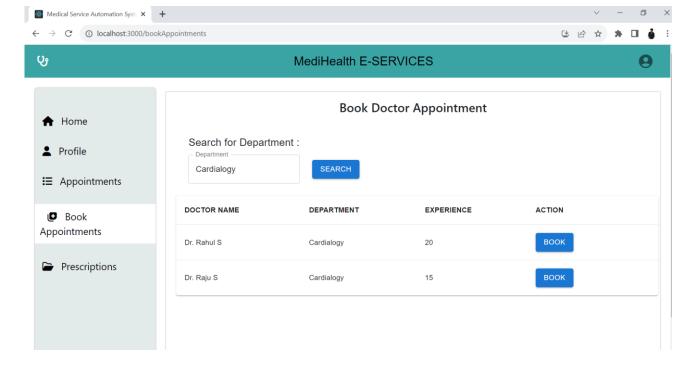
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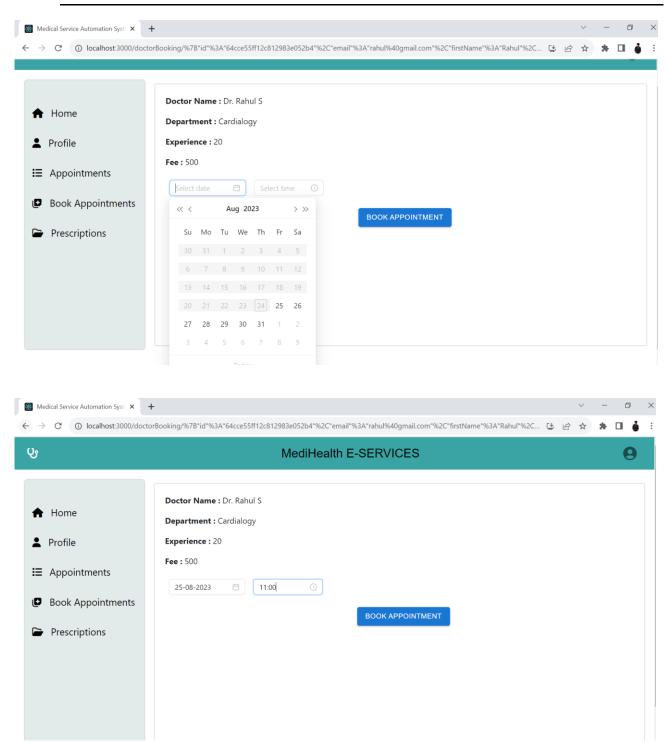




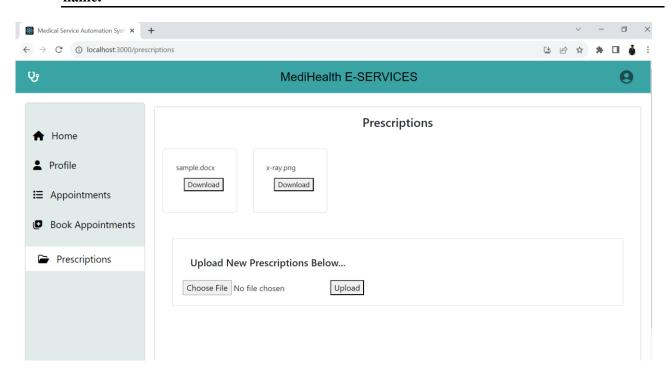


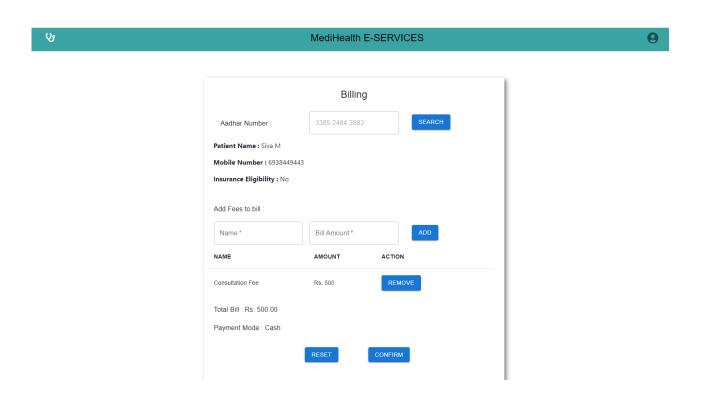






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# 2.4 External Interface Requirements

NA

#### 3. **Project Execution Related Requirements**

#### 3.1 **Development Environment**

Technologies to be used for development of the Application:

- HTML5, CSS3
- JavaScript
- React JS
- Node JS

Software tools that can be used for development:

Visual Studio Code

#### **Design requirements** 3.2

Not applicable.

#### **Coding requirements** 3.3

Since this is front end part of our Medical Service Automation System Application, we followed all the JavaScript coding standard requirements.

#### 3.4 **Error handling requirements**

NA

#### 3.5 **Resource Requirements**

Technologies to be used for development of the Application:

- HTML5, CSS3
- JavaScript
- React JS
- Node JS

#### 3.6 **Training Requirements**

- Since the application being developed is greatly dependent on user interaction, the end user should be comfortable with the UI.
- End users should be given a walkthrough of the working of the entire application throughout. Training should be provided with respect to efficient UI usage.

#### 4. **Testing Requirements**

The testing phase includes front end level validation including mandatory fields and specified format fields.

#### **Quality Assurance Activities** 5.

NA

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# 6. Software Acceptance Criteria

As this is a web Application it can run on any platform. So, there is no software acceptance criteria.

# 7. Deliverables

## 7.1 List of Deliverables

Not Applicable

## 7.2 Delivery

Not Applicable