

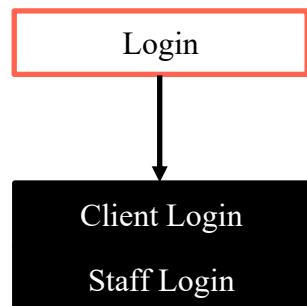
Criterion B: Design

Graphical Visualization of User Interface (GUI):

Elements required to be kept in the menu bar:

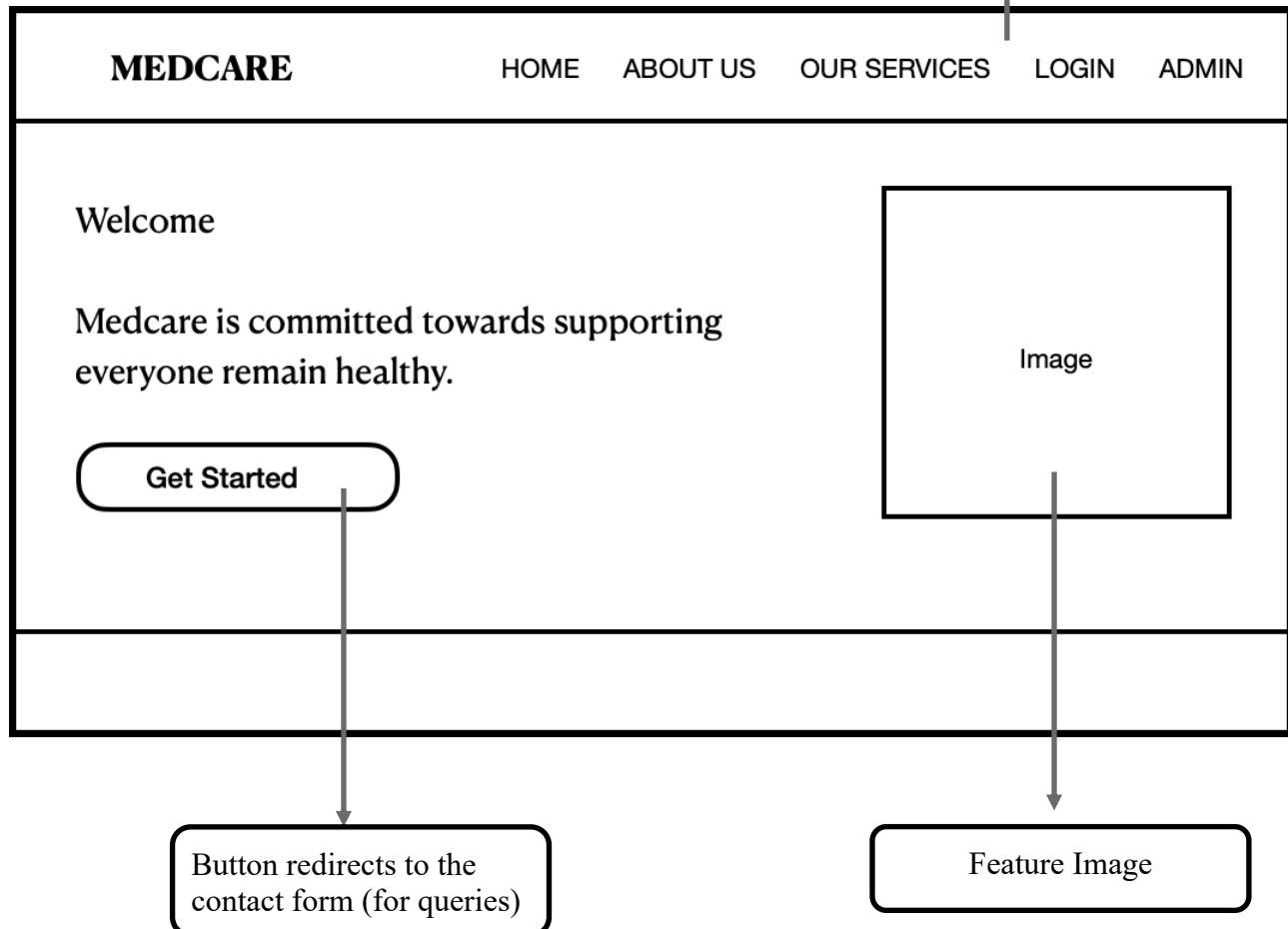
| | | | | |
|------|----------|--------------|-------|-------|
| Home | About Us | Our Services | Login | Admin |
|------|----------|--------------|-------|-------|

Submenus:

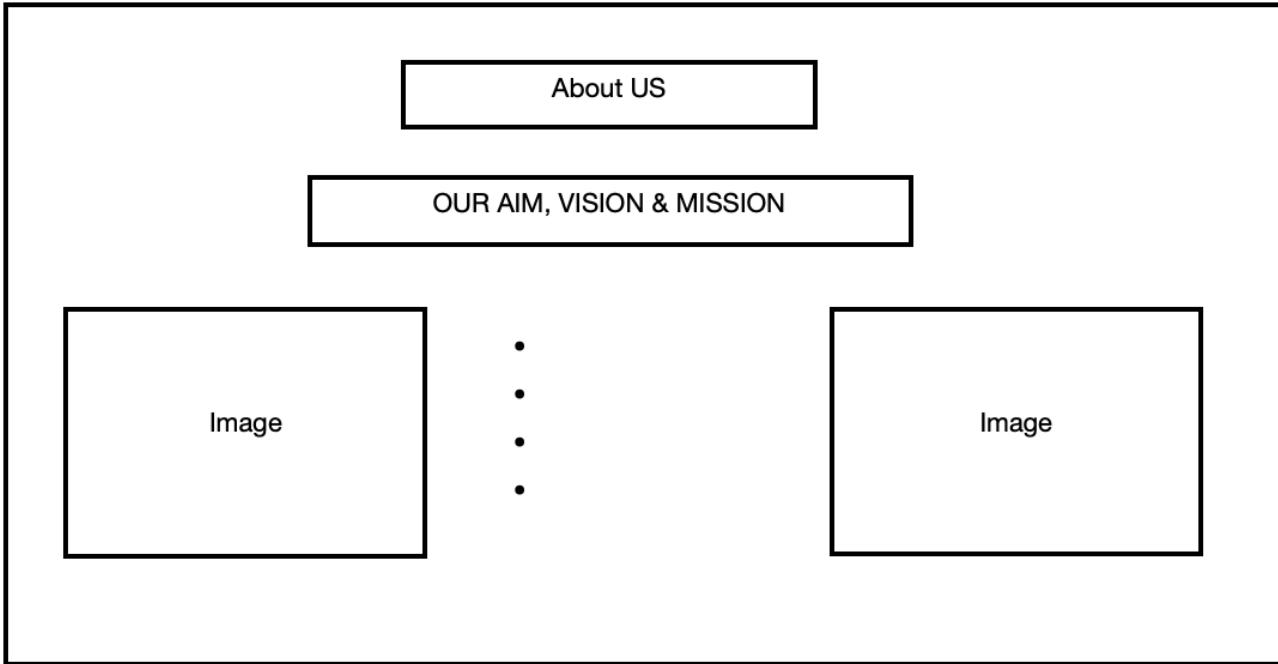


Navigation Bar

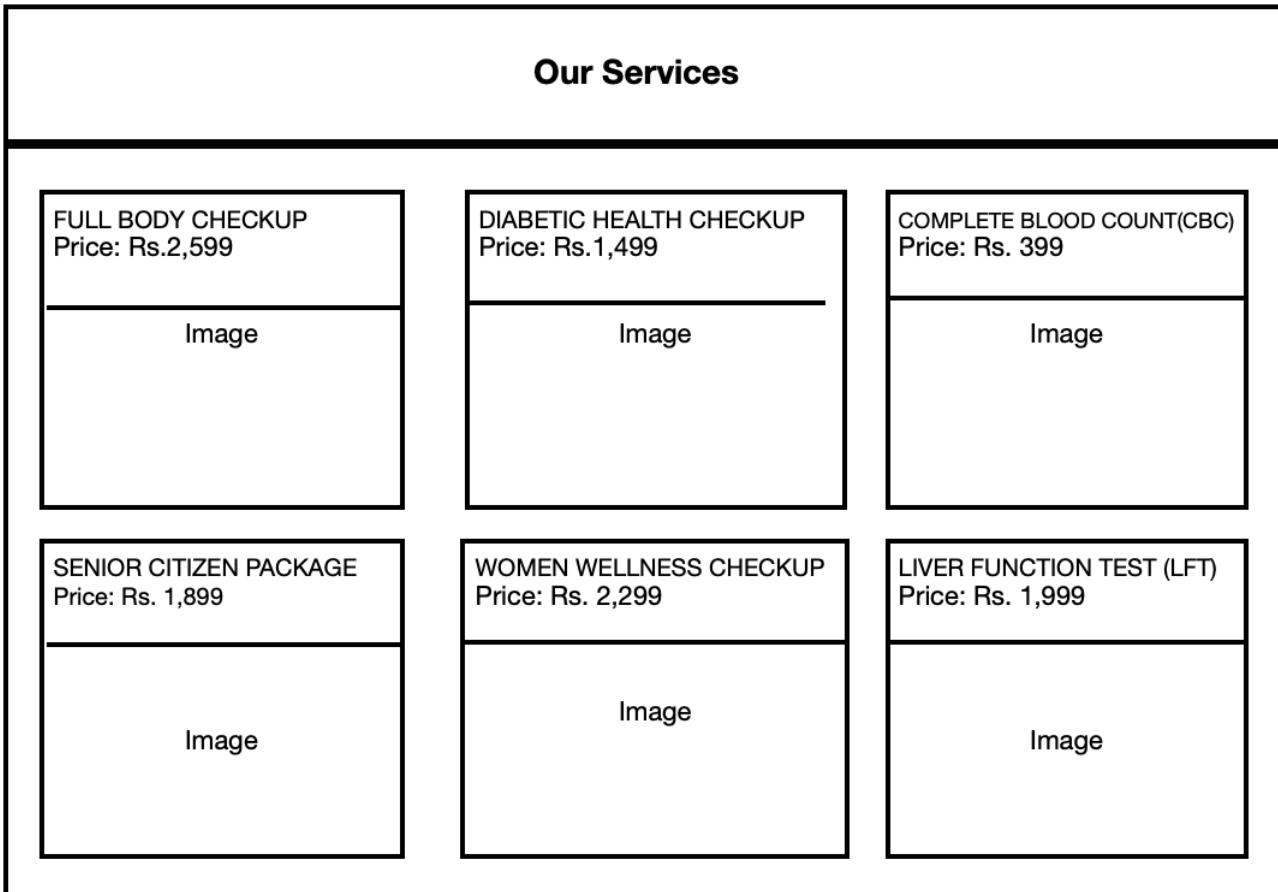
Website cover page:



About Page:



Our Services Page:



Client Login Page:

Client Login

ENTER EMAIL ID:

ENTER PASSWORD:

Login

Don't have an account? [Register](#)

```
graph TD; Login[Login] --> Register[Don't have an account? Register]; Register --> Registration[Button – Link to registration form]; Register --> LoginButton[Login Button]
```

Staff Login Page:

Staff Login

ENTER STAFF ID

ENTER PASSWORD

Login

```
graph TD; Login[Login] --> LoginButton[Login Button]
```

Registration Page:

Client Register

FIRST NAME

LAST NAME

EMAIL ID

CITY

ADDRESS

PASSWORD

CONFIRM PASSWORD

Register

If You have Account, [Login](#)

Button – Link to Client login form

Registration button—click to register.

Main Menu/Navigation Bar for client's account page:

| | | | | |
|---------|-----------------|----------|--|--------|
| Details | Change Password | Services | Cart  | Logout |
|---------|-----------------|----------|--|--------|

Details Page:

Details

First Name: XX

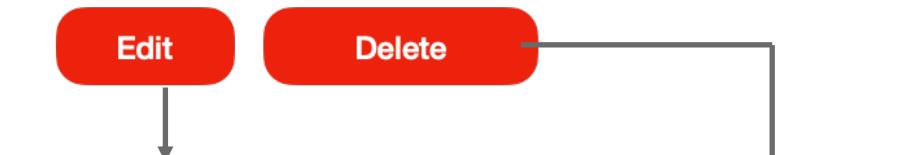
Last Name: X

Email: xxxx@gmail.com

City: XX

Address: House No.XX, Street XX, Hyd.

Edit **Delete**



Change Password Page: Button for editing details Button for account deletion

Change Password

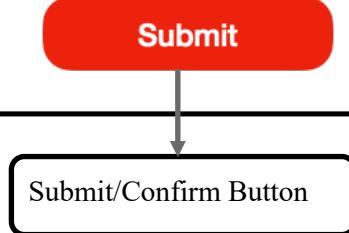
Enter Old Password:

Old Password

Enter Password:

New Password

Submit



Submit/Confirm Button

Service Page:

Services

FULL BODY CHECKUP
Price: Rs.2,599



Book Service

DIABETIC HEALTH CHECKUP
Price: Rs.1,499



Book Service

COMPLETE BLOOD COUNT(CBC)
Price: Rs. 399



Book Service

SENIOR CITIZEN PACKAGE
Price: Rs. 1,899



Book Service

WOMEN WELLNESS CHECKUP
Price: Rs. 2,299



Book Service

LIVER FUNCTION TEST (LFT)
Price: Rs. 1,999



Book Service

Cart:

| Email | Service | Date & Time | Status |
|---------------|----------------|---------------------|---------|
| xxx@gmail.com | *Service Name* | yyyy/mm/dd () AM/PM | Pending |
| xxx@gmail.com | *Service Name* | yyyy/mm/dd () AM/PM | Pending |

Display date and time slot
in the following format

Add to Cart:

Add to Cart

Service:

Service Name

Date & Time:

*Display calendar with dates
and time slots, with a
difference of an hour*

Main Menu for Staff account's page:

| | |
|------------------|--------|
| Service Bookings | Logout |
|------------------|--------|

Service Bookings Page:

Cart

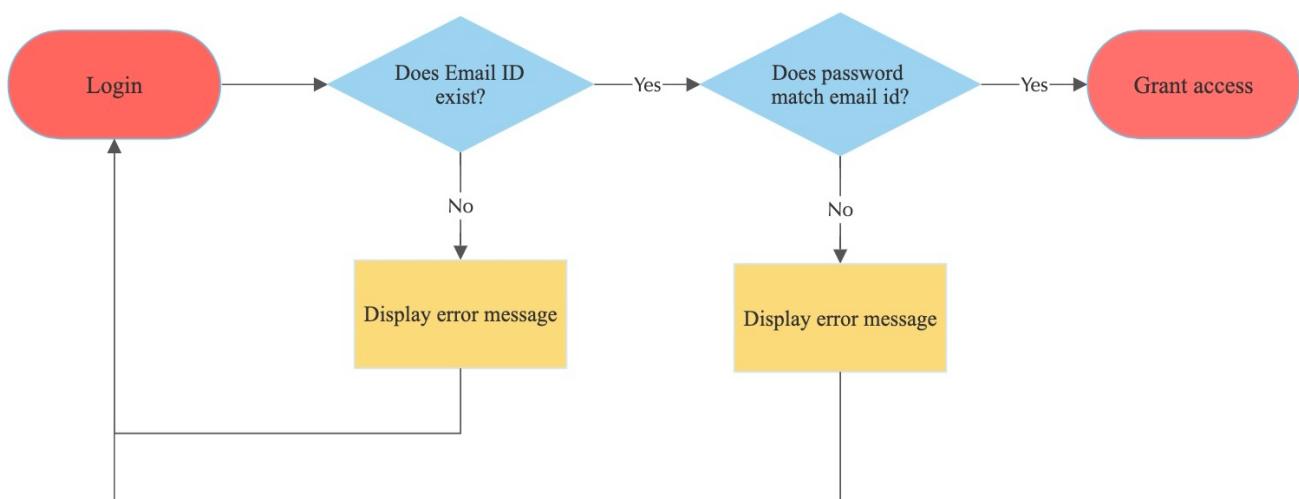
| Email | Service | Date & Time | Status |
|----------------|----------------|---------------------|--|
| xx@ gmail.com | *Service Name* | yyyy/mm/dd () AM/PM | Approve Reject |
| yxy@ gmail.com | *Service Name* | yyyy/mm/dd () AM/PM | Approve Reject |
| yxx@ gmail.com | *Service Name* | yyyy/mm/dd () AM/PM | Approve Reject |

Display date and time slot
in the following format

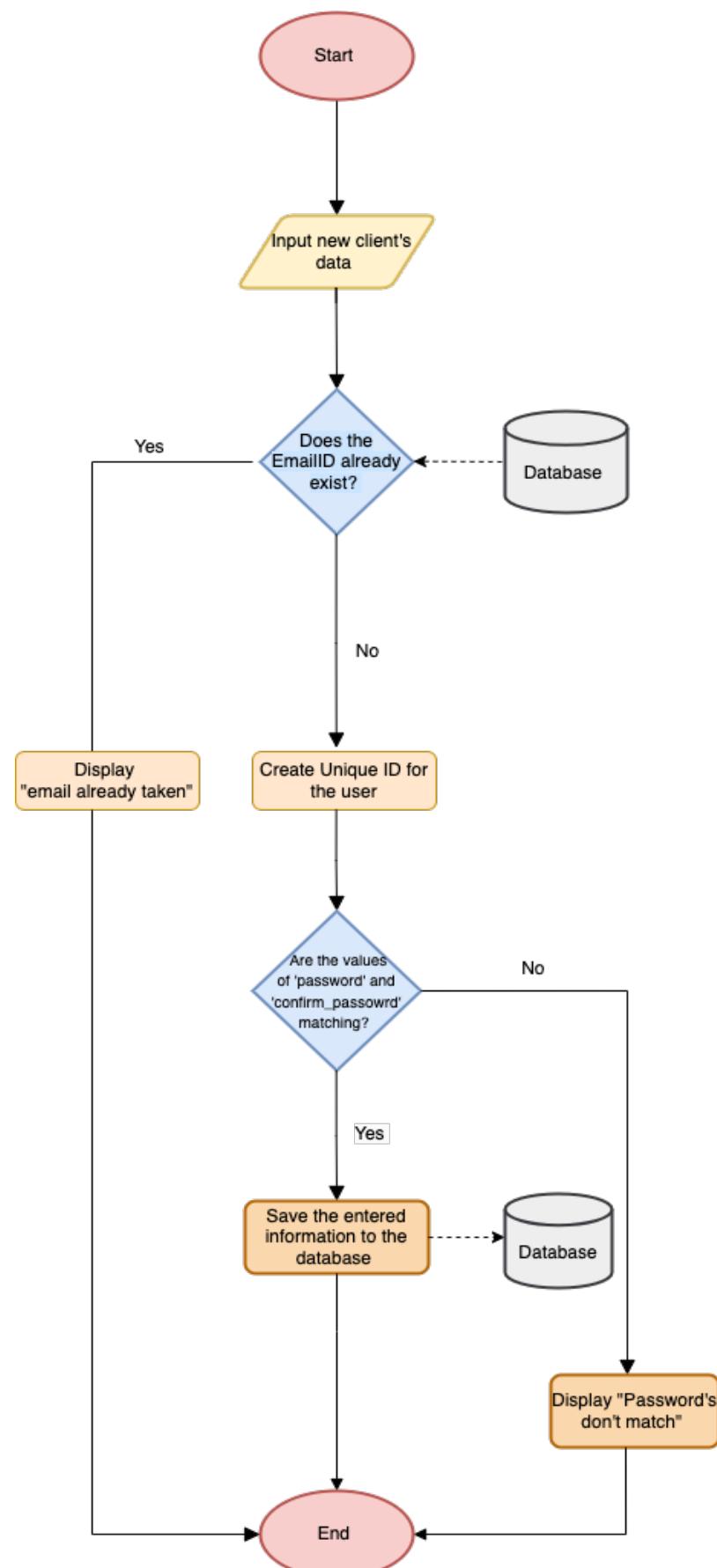
Buttons for approval or
rejection of the
appointment

FLOWCHARTS:

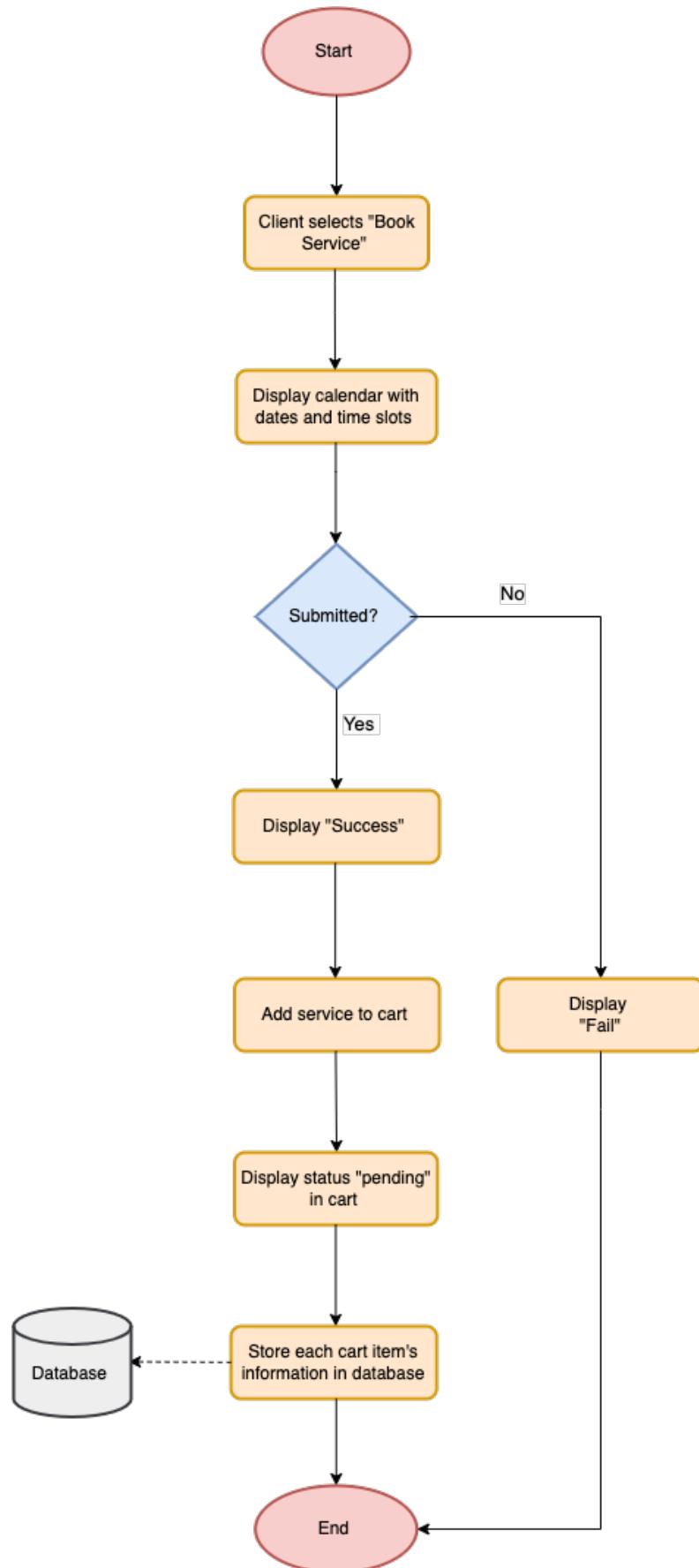
Client Login Process



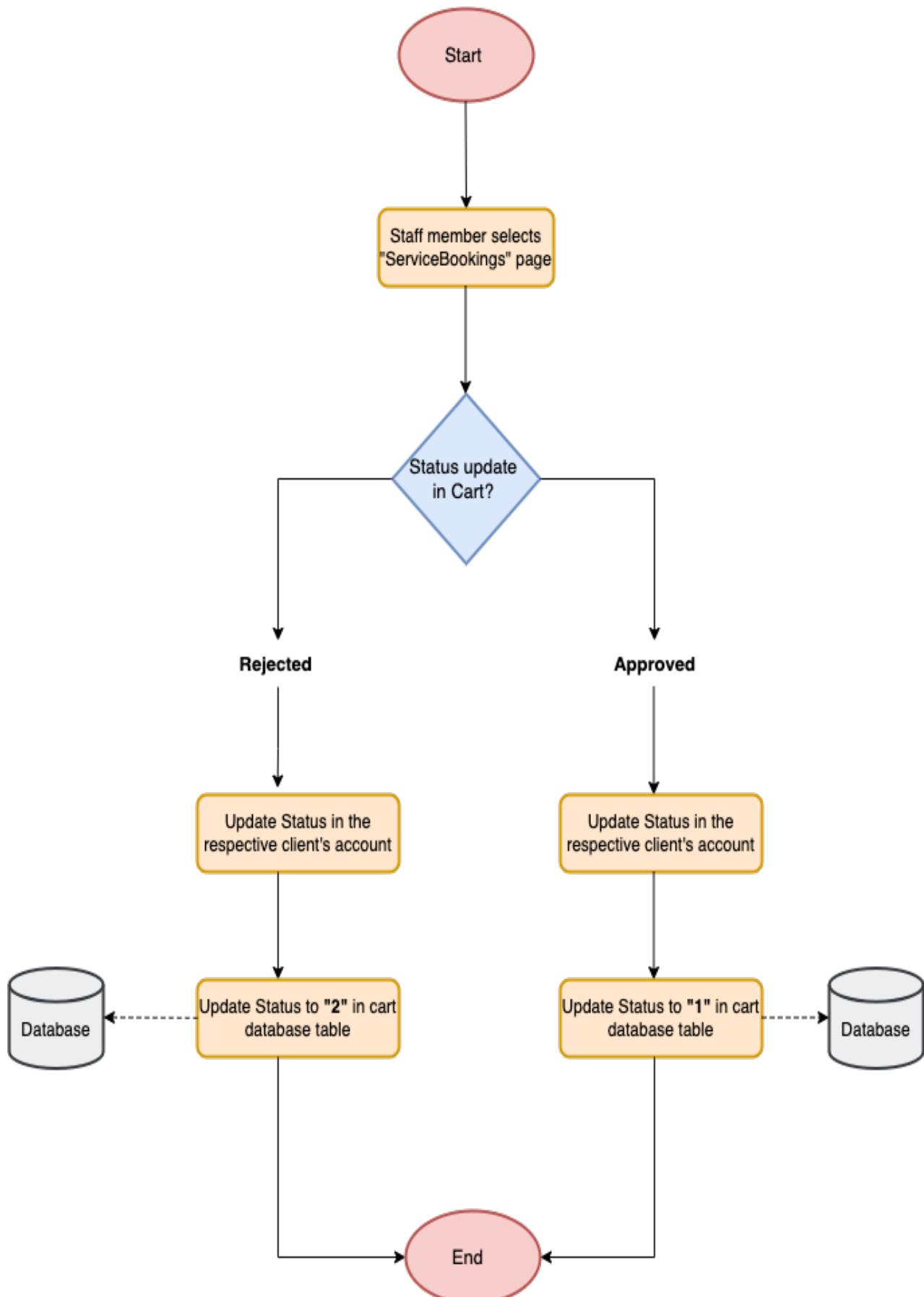
Client Registration Process



Booking Services Process

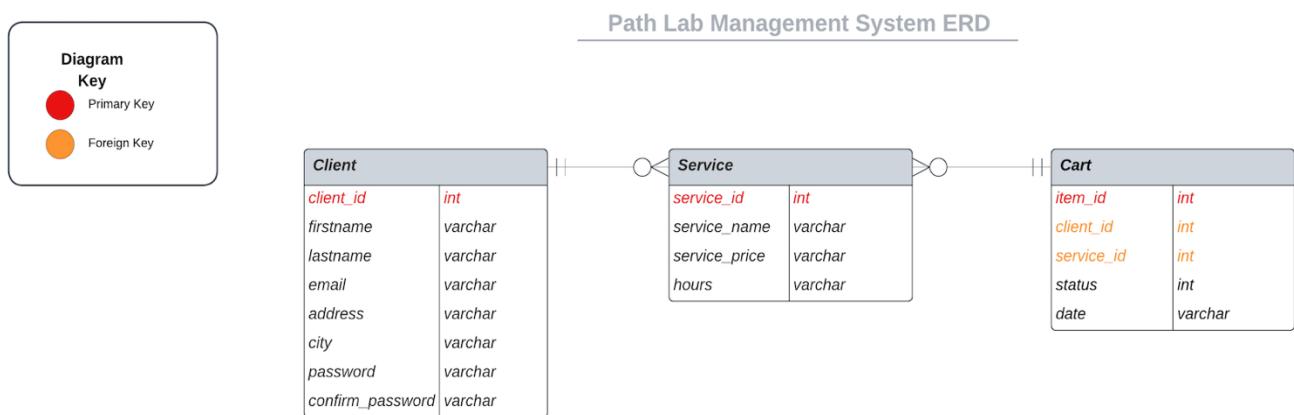


Updating Status of Appointments:



Entity-Relationship Diagram (ER Diagram):

An ERD represents a logical view of the database and show how entities are related to each other.



UML Class Diagram:

UML (or Unified Modelling Language) was developed to create a standard way of visualizing the design of a system. The structural description in UML Class Diagrams show the system's classes and how they relate to one another.

The following UML Class Diagram was created for the Appointment Booking System and show how the classes involved are related to each other.

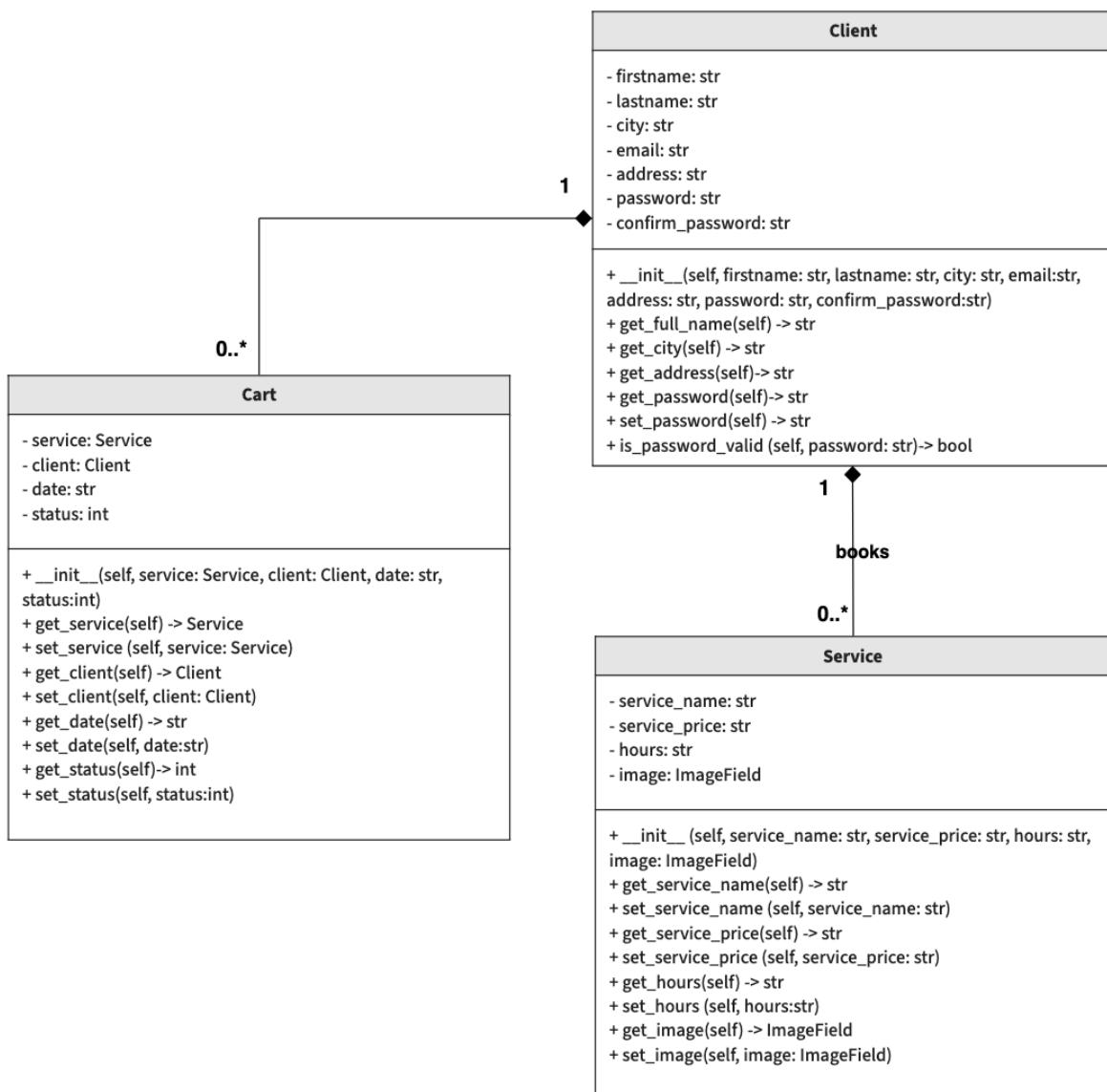


Table Design/ Structure:

The following table designs/structures are used in SQLite database for storage where the user can store, edit, or delete the data.

Table Name: “client”

| Field Name | Data type | Description |
|-------------------|------------------|------------------------------------|
| client_id | integer | Unique ID of every new user/client |
| firstname | Varchar (50) | First name of client |
| lastname | Varchar (50) | Last name of client |
| city | Varchar (50) | City name |
| email | Varchar (50) | Email address |
| address | Varchar (500) | House address |
| password | Varchar (50) | Password for client's new account. |
| confirm_password | Varchar (50) | Password confirmation |

This table stores the information entered by the client in the registration page. Each client is given a unique client ID.

Table Name: “cart”

| Field Name | Data type | Description |
|-------------------|------------------|--|
| item_id | integer | Stores Unique ID of each item/booked service added to cart |
| client_id | bigint | Corresponding client id |
| service_id | integer | Corresponding service id |
| Status | integer | Status of confirmation of appointment |
| Date | Varchar (50) | Date of the appointment |

This table stores the cart information for every booked service. The status gets updated after the changes are made by the staff member. This table is mainly used for viewing a particular day's appointments.

Table Name: “staff”

| Field Name | Data type | Description |
|-------------------|------------------|---------------------------------|
| number_id | integer | Number ID for each staff member |
| staffid | varchar (100) | Staff ID for each staff member |
| password | varchar (100) | Password for staff login |

This table stores the staff user information entered by the admin in the administration page.

Table Name: “services”

| Field Name | Data type | Description |
|---------------|---------------|----------------------------|
| service_id | integer | Unique ID for each service |
| service_name | Varchar (100) | Name of the service |
| service_price | Varchar (100) | Price of the service |
| hours | Varchar (100) | Expected report result |
| image | Varchar (100) | Image file of service |

This table stores the details of each service under ‘Our Services’ page accessible by the clients.

Test Plan:

| <u>Test Type</u> | <u>Test Method</u> | <u>Expected result</u> | <u>Success Criteria</u> |
|---|--|---|-------------------------|
| Clients are able to register. | Input appropriate data into the registration page, then submit. | Client/user created in the database. | 1 |
| Clients can change their personal info/password | Edit feature available on the details page, submit after making changes. Enter old password, and then new password on ‘Change password’ page, submit after updating. | Information gets updated on the database. | 4 |

| | | | |
|---|--|--|---|
| Clients can book appointments | In ‘service bookings’ page, book a specific service and select date and time slot. | The booking gets updated under the cart table in the database along with client id and status. (After approval/rejection from staff member) | 5 |
| Different UI for clients and lab staff members. | Under the login button on the main page of the website, choose client/staff login accordingly. | Different GUI appears for clients and staff members. Clients will have additional features, while the staff account page can only update the status of bookings. | 3 |
| Staff can log in with given credentials | Go to staff log in, enter StaffID and password to login. | Staff credentials are stored in the database as soon as they are created in the admin page. | 2 |
| Staff can update the status of bookings (approve/ reject) | After logging into staff account, go to service bookings page, client booking information will be available, along with two action buttons (approve/reject). | The status gets updated for the client in their account, and also under the cart table in database. | 6 |
| Admins can view information and access edit features | Go to admin page and login with credentials. Admin can access client and website information under site administration. | Editing done by the admin will automatically be updated on the website and specific database. | 7 |
| Clients can contact for queries | In the contact page, clients can send their messages/queries to the center. | The information gets updated under the contact table in database. | 8 |
| Input validation | When users accidentally enter inappropriate/incorrect | An error message is displayed on the | 9 |

| | | | |
|---|--|--|----|
| | data i.e., wrong credentials, mismatched passwords, etc. | screen and no further action is taken. | |
| Organized view of a particular day's schedule | Update appointment bookings on the website. | The admin and staff can view the number of appointments with details on each day under the cart table in the database. | 10 |