INTRODUCTION

The doctor appointment booking application is a web-based application that allows patients to book appointments with doctors. The application is designed to be easy to use and to provide patients with a convenient way to schedule appointments.

Actors:

 **Admin:** The admin manages the doctor appointment booking application. This includes adding, removing ,view and updating doctors.

 **User:** The user is a patient who wants to book an appointment with a doctor and give ratings.

Use Case Document for Admin:

Actors: Admin

Preconditions: Admin is logged in and has the necessary privileges.

Use Case 1: Add a New Doctor

Description: The admin adds a new doctor to the database.

Main Flow:

Admin selects the option to add a new doctor.

Admin provides the necessary details of the doctor (e.g., name, specialty)

System validates the inputs and adds the new doctor to the database.

Postconditions: The new doctor is added to the database.

Use Case 2: Update Existing Data

Description: The admin updates the existing data of a doctor.

Main Flow:

Admin selects the option to update existing data.

Admin selects the doctor to be updated.

Admin modifies the desired fields (e.g., name, specialty) of the selected doctor.

System validates the inputs and updates the doctor's data in the database.

Postconditions: The doctor's data is updated in the database.

Use Case 3: View Data (Doctor)

Description: The admin views the data of a doctor.

Main Flow:

Admin selects the option to view data.

Admin selects the doctor to view.

System retrieves and displays the data of the selected doctor.

Postconditions: The doctor's data is displayed to the admin.

Use Case 4: Delete Data from Database

Description: The admin deletes data (e.g., doctor) from the database.

Main Flow:

Admin selects the option to delete data.

Admin selects the data (e.g., doctor) to be deleted.

System deletes the selected data from the database.

Postconditions: The selected data is deleted from the database.

Use Case Document for User:

Use Case 1: View List of Doctors

Actors: User

Description: The user views a list of doctors.

Preconditions: None

Main Flow:

User selects the option to view doctors.

System retrieves and displays a list of doctors.

Postconditions: A list of doctors is displayed to the user.

Use Case 2: Search Doctors

Description: The user searches for doctors based on specific criteria.

Preconditions: None.

Main Flow:

User provides the search criteria (e.g., name, specialty) to the system.

System retrieves and displays the doctors matching the search criteria.

Postconditions: The matching doctors are displayed to the user.

Use Case 3: Book Appointments

Description: The user books an appointment with a doctor.

Preconditions: User is logged in.

Main Flow:

User selects the option to book an appointment.

User selects the doctor and preferred date/time for the appointment.

System validates the availability and confirms the appointment.

System saves the appointment details.

Postconditions: The appointment is booked and saved in the system.

Use Case 4: View Booking Details

Description: The user views the details of a booked appointment.

Actors: User

Preconditions: User has a booked appointment.

Main Flow:

User selects the option to view booking details.

User selects the appointment to view.

System retrieves and displays the details of the selected appointment.

Postconditions: The appointment details are displayed to the user.

Use Case 5: Rate a Doctor

Description: The user provides a rating and review for a doctor.

Actors: User

Preconditions: User has visited and received services from a doctor.

Main Flow:

User selects the option to rate a doctor.

User selects the doctor to rate.

User provides the rating .

System saves the rating for the doctor.

Postconditions: The rating and review are saved in the system.

Use Case 6: View Rating

Description: The user views the average rating of a doctor.

Actors: User

Preconditions: None

Main Flow:

User selects the option to view the rating of a doctor.

User selects the doctor to view the rating.

System calculates and displays the average rating for the doctor.

Postconditions: The average rating is displayed to the user.