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Case Study: Meeting room Booking System

W3H Analysis

Case Study: Meeting room Booking System	
1. What?	2. How?
<p><b>What are the Modules required?</b></p> <p><b>Ans:</b></p> <ol style="list-style-type: none"><li>Admin Module</li><li>User Module</li></ol> <p><b>What are the functionalities required for the Admin Module?</b></p> <p><b>Ans:</b></p> <ol style="list-style-type: none"><li>Login to the portal</li><li>Do all CRUD Operations</li></ol> <p><b>What are the functionalities needed for the User Module?</b></p> <p><b>Ans:</b></p> <ol style="list-style-type: none"><li>Login to the portal</li><li>Do all CRUD Operations for their own data</li><li>Book meeting Room</li></ol> <p><b>What are the fields needed for the Admin Module?</b></p> <p><b>Ans:</b> Admin Name, Admin ID, Password, email id, Contact Number.</p> <p><b>What are the fields required for the User Module?</b></p> <p><b>Ans:</b> Username, User Id, Password, Email Id, Start time, End time,</p>	<p><b>Admin</b></p> <p><b>Login:</b></p> <p><b>Method1:</b> Login by email id and password</p> <p><b>Method2:</b> Login by Admin ID and Password</p> <p><b>CRUD:</b></p> <p><b>Method1:</b> Do all CRUD Operations by non-Primary key values</p> <p><b>Method2:</b> Do all CRUD Operations by Primary key values</p> <p><b>User</b></p> <p><b>Login:</b></p> <p><b>Method1:</b> Login by email id and password</p> <p><b>Method2:</b> Login by User ID and Password</p> <p><b>CRUD:</b></p> <p><b>Method1:</b> Do all CRUD Operations by Username on own data</p> <p><b>Method2:</b> Do all CRUD Operations by User id and room id in own data</p> <p><b>Book Room:</b></p> <p><b>Method1:</b> Book meeting room by username</p> <p><b>Method2:</b> Book meeting room by User Id</p>
<p><b>Admin</b></p> <p><b>Login:</b></p> <p><b>Method2:</b> Login by Admin ID and Password (Admin id is unique, so, for login purposes admin Id is the best choice)</p> <p><b>CRUD:</b></p> <p><b>Method2:</b> Do all CRUD Operations by Primary key values (Primary key values are the best for CRUD Operation to avoid confusion or ambiguity errors)</p> <p><b>User:</b></p> <p><b>Login:</b></p> <p><b>Method2:</b> Login by User ID and Password (User id is unique, so, for login purposes user Id is the best choice)</p> <p><b>CRUD:</b></p> <p><b>Method2:</b> Do all CRUD Operations by User id and room id in own data (Unique values are best for CRUD Operations to avoid unnecessary issues)</p> <p><b>Book Room:</b></p> <p><b>Method2:</b> Book meeting room by User Id (User id is best for room booking to identify the real creator and authentication processes)</p>	<p><b>Admin and User</b></p> <ul style="list-style-type: none"><li>The confusion will be occurred when we use the non-primary key for crud operations</li><li>Duplicatable values like email ids not appropriate for login purposes</li><li>For Meeting room booking, username cannot be taken for authentication, this should be avoided.</li></ul>
3. Why?	4. Why Not?

Algorithm for Admin:

- Step1: Start
- Step2: Login to the Portal by admin credentials
- Step3: Create Room for the user
- Step4: Update Room details and User details
- Step5: Delete the details of user and meeting room

Step6: Display the details of the room and User

Step7: Logout from the portal

Step8: End

Algorithm for User:

Step1: Start

Step2: Register and Login to the portal by the user credentials

Step3: Create the room

Step4: Update the Own data and customize the room

Step5: Delete the data of their own

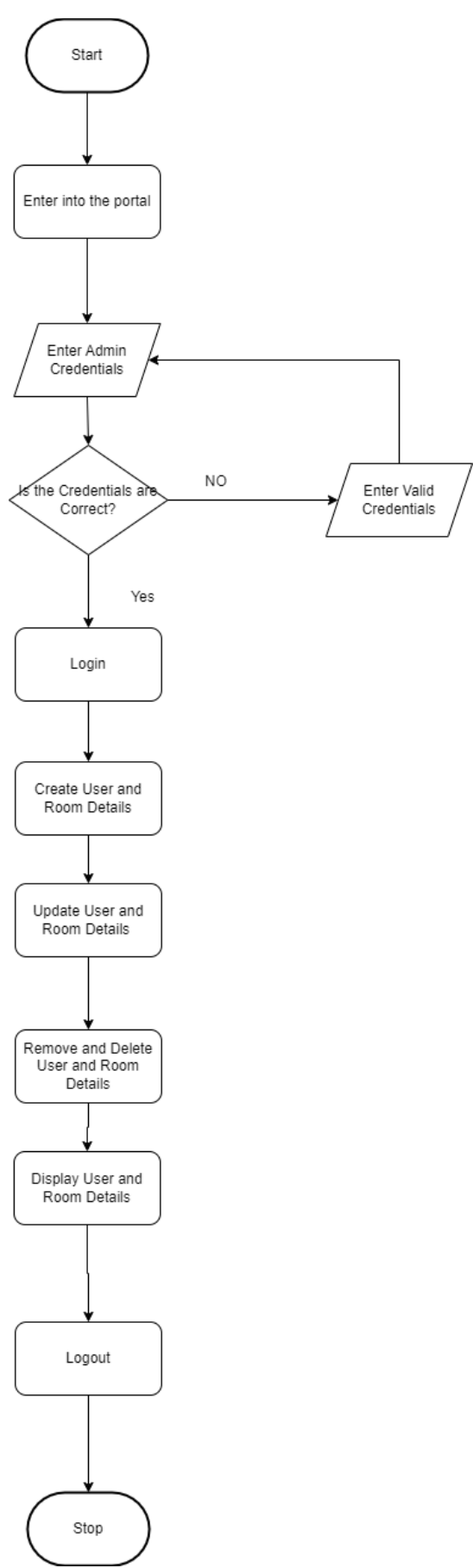
Step6: Display their Data and their appropriate created room’s data

Step7: give feedback

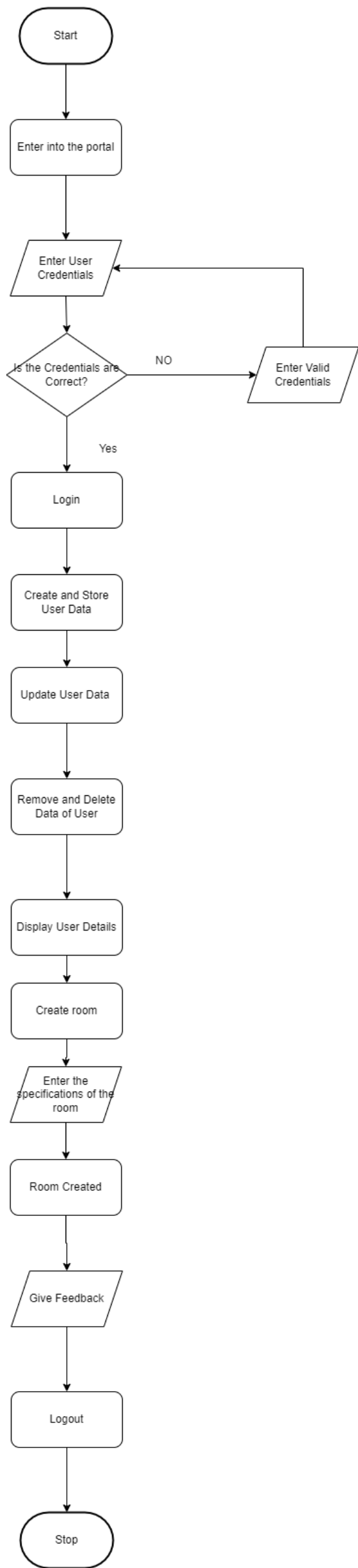
Step8: Logout from the portal

Step9: End

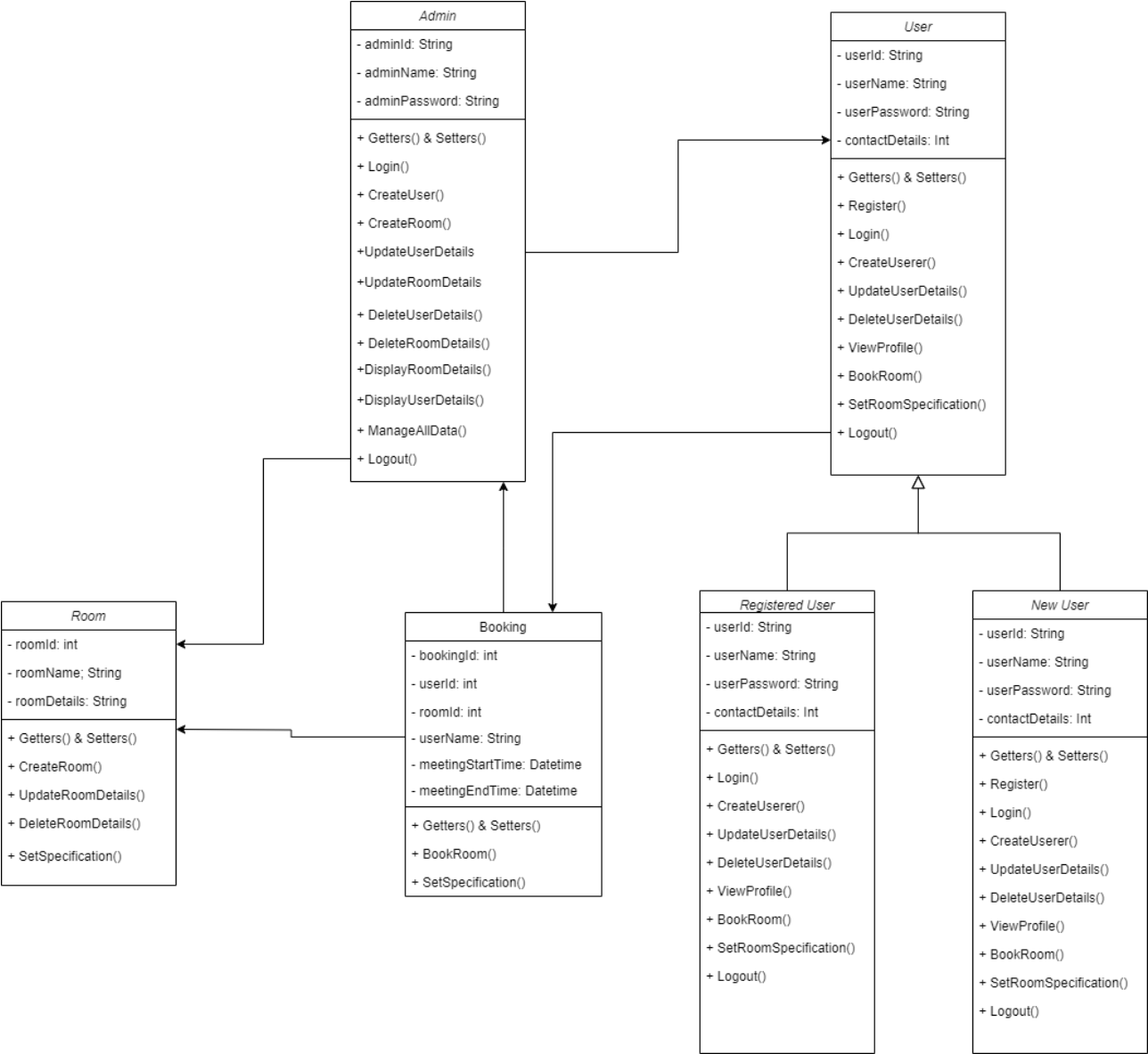
Flow Chart for Admin



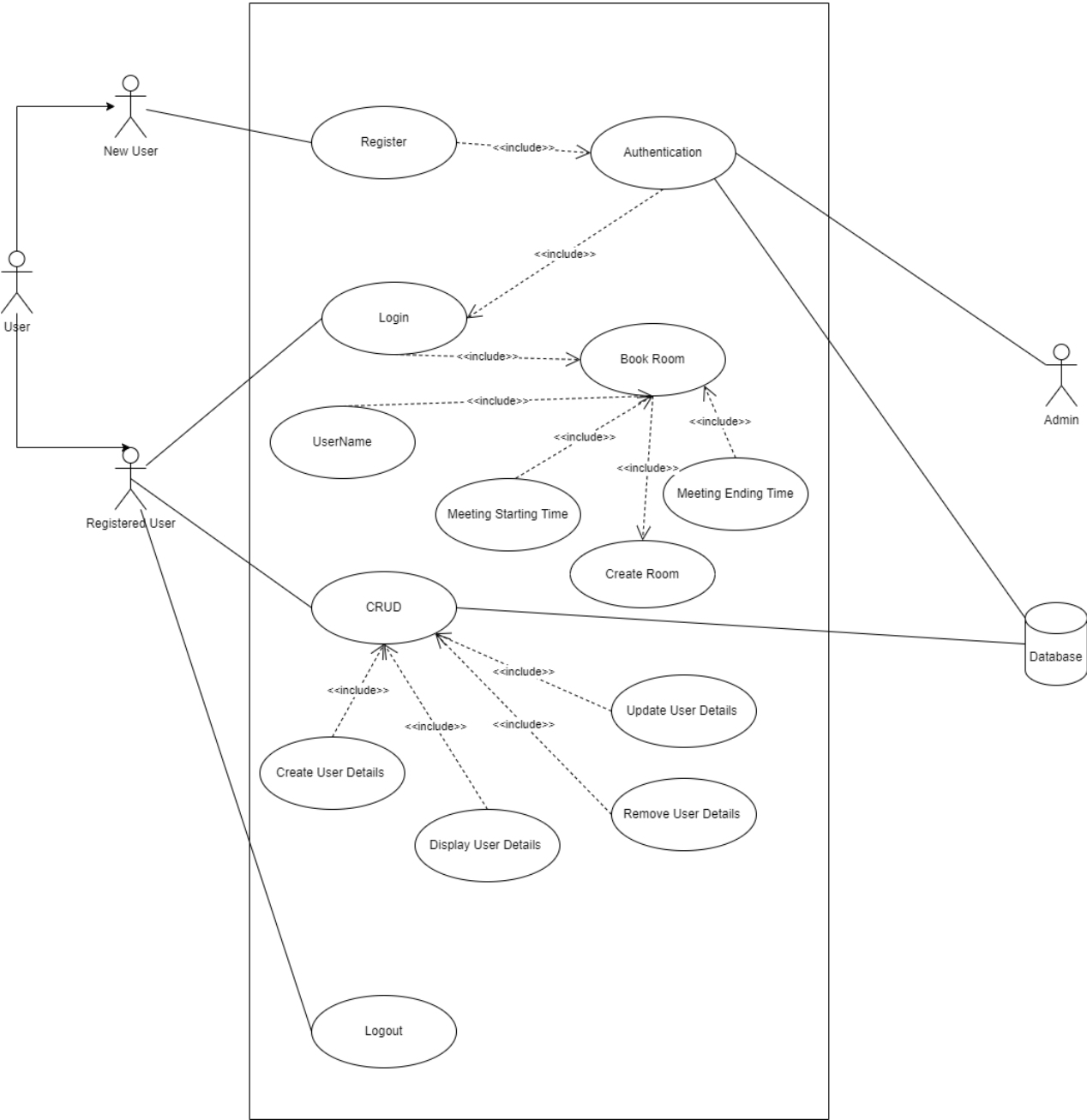
Flow chart for User Module



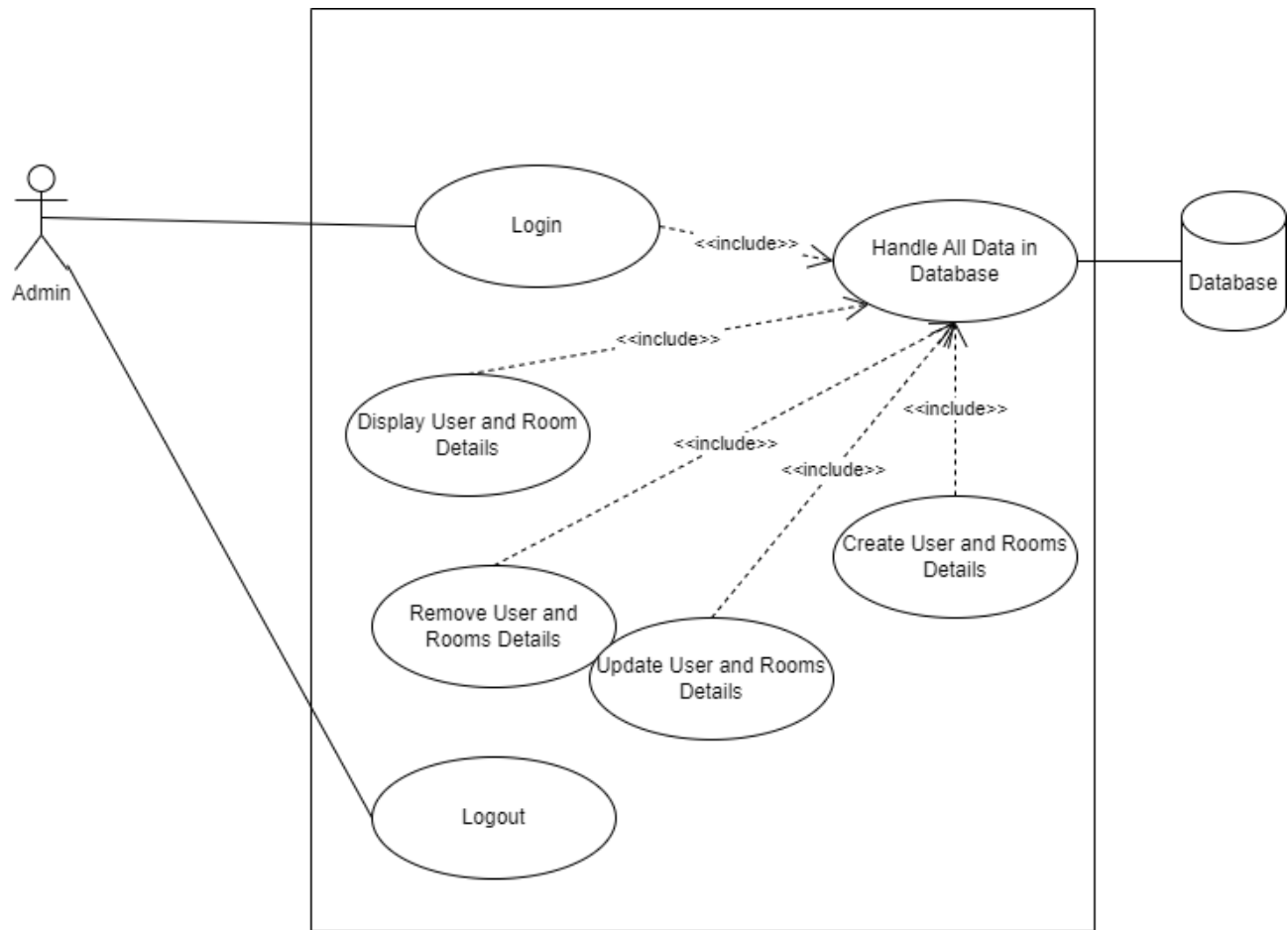
**Class Diagram for Meeting room booking System**



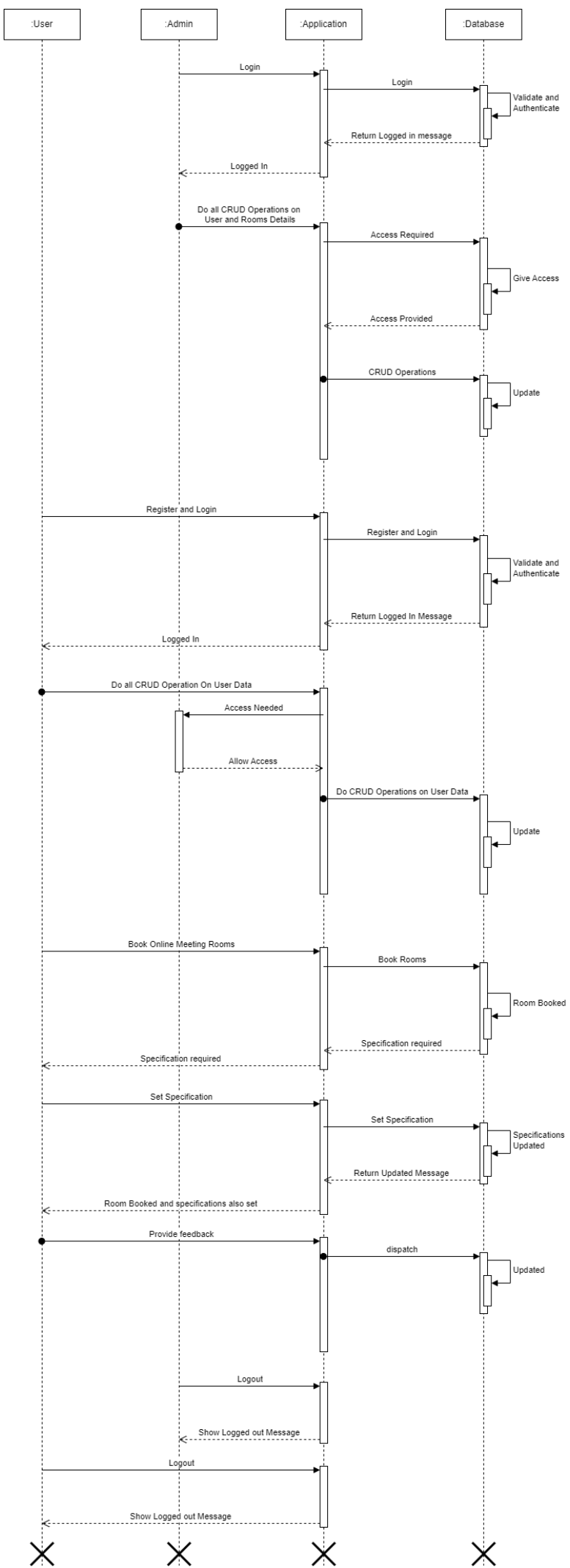
Use Case diagram for User



Use Case Diagram for Admin



Sequence Diagram for Meeting Room Booking System



Screenshots

MEET ADMIN  
MODULE


HOMEINSERTUPDATEDELETEFINDFINDBYNAMEDISPLAY  
ALL

Welcome to Our Meeting Room Booking Application

Discover how to Create, Read, Update, and Delete Meeting room details.


Learn More

Operations




Create

Provide appropriate data to Create the room for user




Read

Retrieve data of the user from a database.



Update

Modify data of the room and user in a database.




Delete

Remove data of the user from a database.

MEET ADMIN  
MODULE


HOMEINSERTUPDATEDELETEFINDFINDBYNAMEDISPLAY  
ALL

Operations




Create

Provide appropriate data to Create the room for user




Read

Retrieve data of the user from a database.



Update

Modify data of the room and user in a database.



Delete

Remove data of the user from a database.

Contact Us

Email: contact@example.com

Phone: 123-456-7890

MEET ADMIN MODULE

HOMEINSERTUPDATEDELETEFINDFINDBYNAMEDISPLAY  
ALL

Insert Page

User ID

Room ID

Name

Meeting Starting Date and Time

Meeting Ending Date and Time

Insert

localhost:8080/SpringHibernateAssessment/index.jsp

localhost:8080 says  
Please fill the Validate ID

OK

MEET ADMIN MODULE

HOMEINSERTUPDATEDELETEFINDFINDBYNAMEDISPLAY  
ALL

Insert Page

User ID

Please fill out this field.

Name

Meeting Starting Date and Time

Meeting Ending Date and Time

Insert

MEET ADMIN MODULE

HOMEINSERTUPDATEDELETEFINDFINDBYNAMEDISPLAY  
ALL

Insert Page

User ID

22

Room ID

222

Name

suriya

Meeting Starting Date and Time

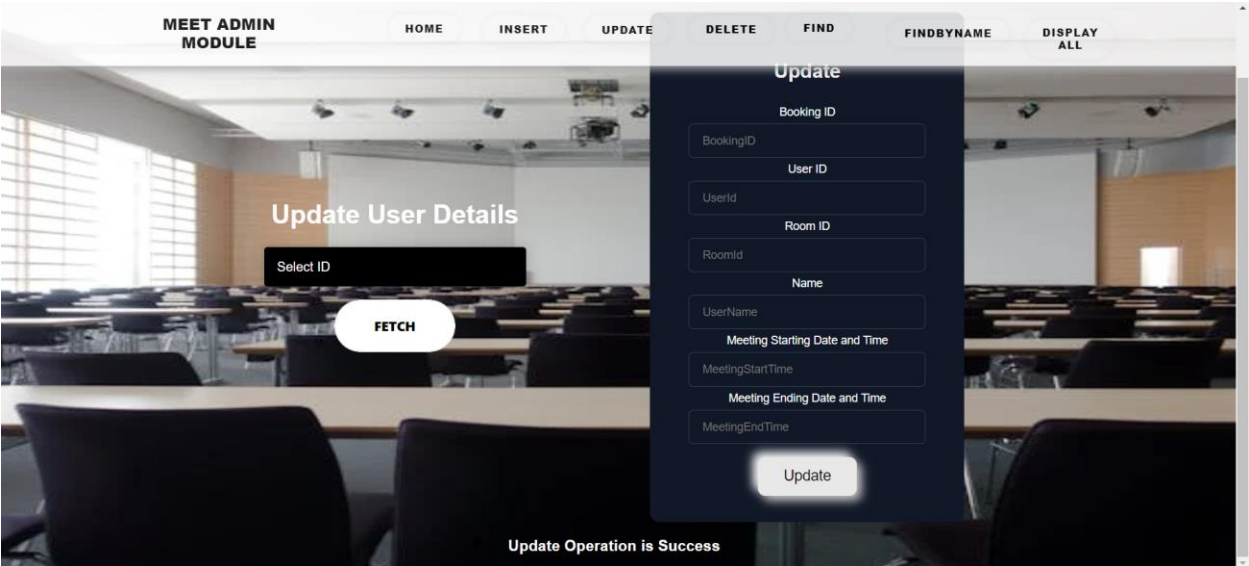
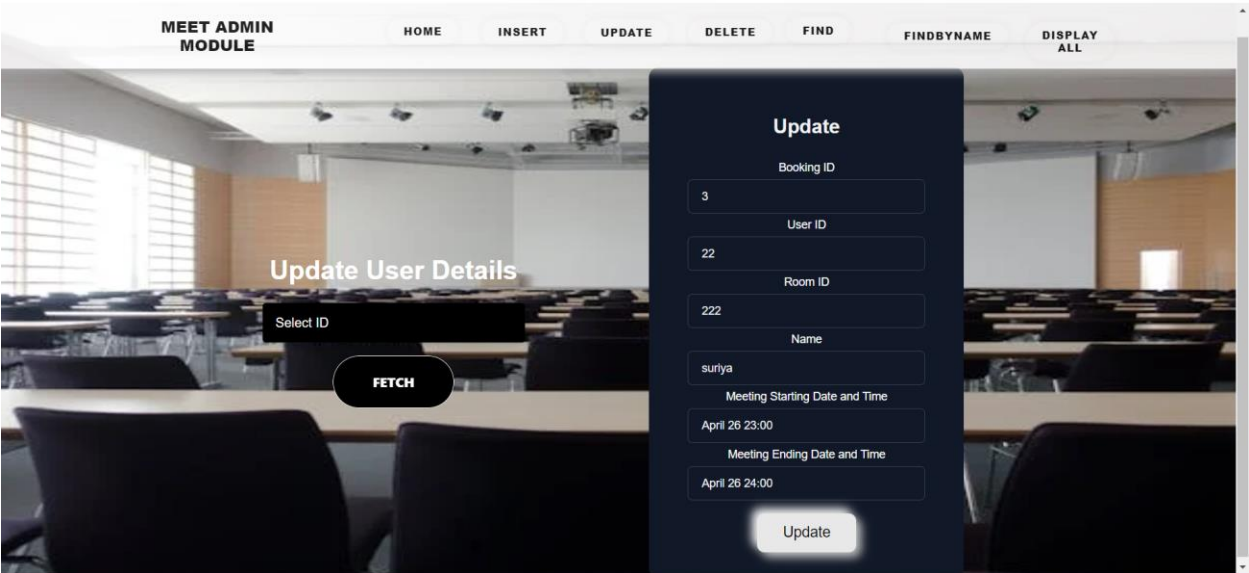
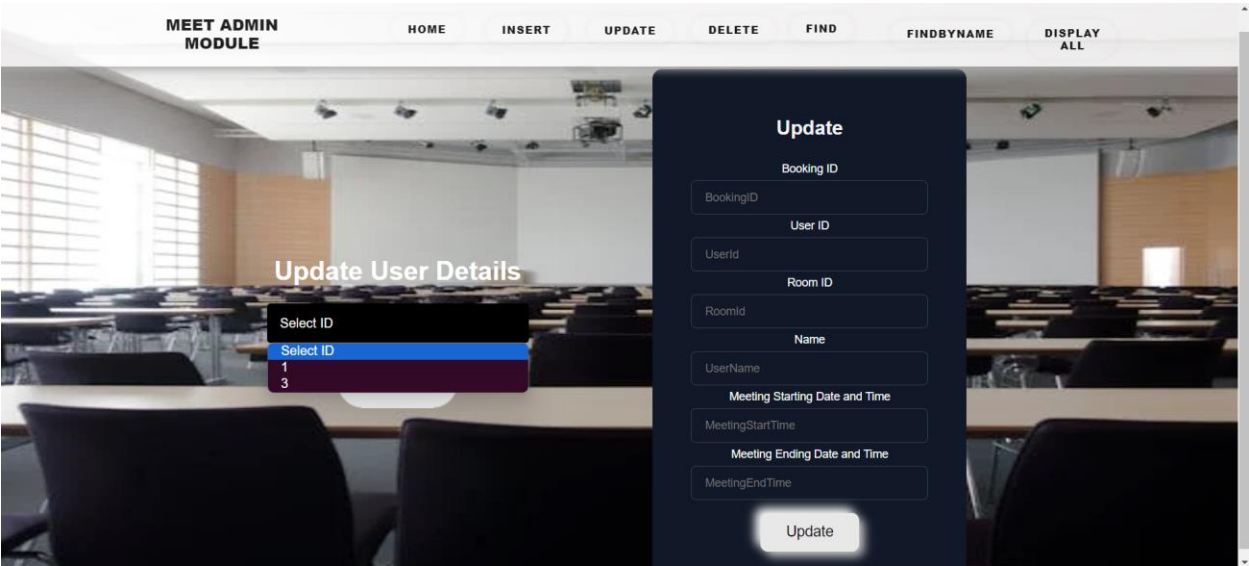
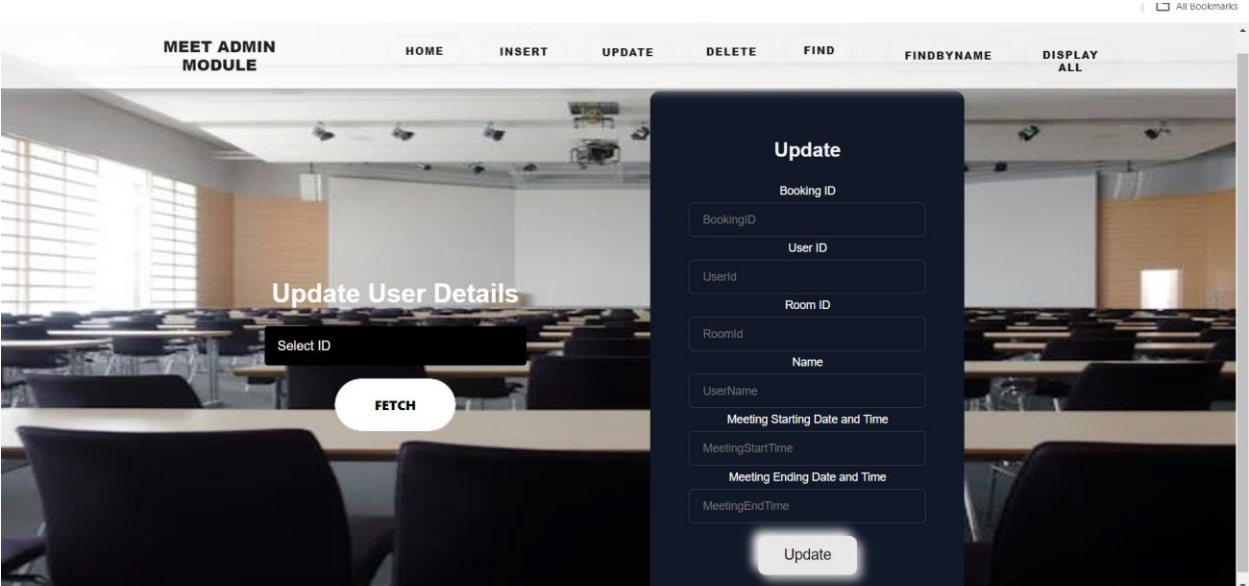
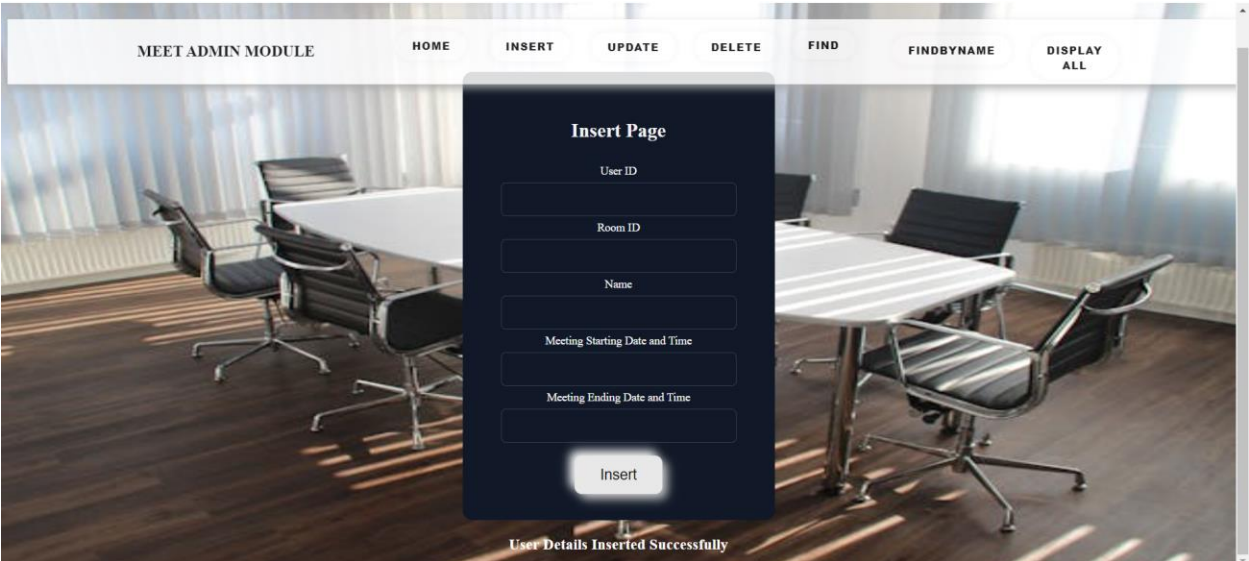
April 26 23:00

Meeting Ending Date and Time

April 26 24:00

Insert







MEET ADMIN MODULE

HOMEINSERTUPDATEDELETEFINDFINDBYNAMEDISPLAY ALL

Booking ID	User ID	Room ID	User Name	Meeting Start Time	Meeting End Time
1	1	11	Nandhakumaran	March 12 11am	March 12 12pm
3	22	222	suriyakumaran	April 26 23:00	April 26 24:00

MEET ADMIN MODULE

HOMEINSERTUPDATEDELETEFINDFINDBYNAMEDISPLAY ALL

Find User Details By ID

Select ID

FIND

Find By ID

Booking ID

User ID

Room ID

Name

Meeting Starting Date and Time

Meeting Ending Date and Time

MEET ADMIN MODULE

HOMEINSERTUPDATEDELETEFINDFINDBYNAMEDISPLAY ALL

Find User Details By ID

Select ID

FIND

Find By ID

3

22

222

suriyakumaran

April 26 23:00

April 26 24:00

MEET ADMIN MODULE

HOMEINSERTUPDATEDELETEFINDFINDBYNAMEDISPLAY ALL

Find User Details By ID

Select ID

FIND

Find By ID

3

22

222

suriyakumaran

April 26 23:00

April 26 24:00

Data Found Successfully

MEET ADMIN MODULE

HOMEINSERTUPDATEDELETEFINDFINDBYNAMEDISPLAY ALL

Find User Details

Select Name

FIND

Find By Name

Booking ID

User ID

Room ID

Name

Meeting Starting Date and Time

Meeting Ending Date and Time



MEET ADMIN MODULE

HOME

INSERT

UPDATE

DELETE

FIND

FINDBYNAME

DISPLAY ALL

Find User Details

Nandhakumaran

FIND

Find By Name

Booking ID

User ID

Room ID

Name

Meeting Starting Date and Time

Meeting Ending Date and Time

MEET ADMIN MODULE

HOME

INSERT

UPDATE

DELETE

FIND

FINDBYNAME

DISPLAY ALL

Find User Details

Select Name

FIND

Find By Name

1

1

11

Nandhakumaran

March 12 11am

March 12 12pm

Date Found Successfully

MEET ADMIN MODULE

HOME

INSERT

UPDATE

DELETE

FIND

FINDBYNAME

DISPLAY ALL

Delete Student by ID

Select ID

DELETE

MEET ADMIN MODULE

HOME

INSERT

UPDATE

DELETE

FIND

FINDBYNAME

DISPLAY ALL

Delete Student by ID

Select ID

DELETE

Deletion Operation Is Successfully Done

MEET ADMIN MODULE

HOME

INSERT

UPDATE

DELETE

FIND

FINDBYNAME

DISPLAY ALL

Booking ID	User ID	Room ID	User Name	Meeting Start Time	Meeting End Time
1	1	11	Nandhakumaran	March 12 11am	March 12 12pm