THE UNIVERSITY OF TEXAS AT DALLAS

Richardson, Texas

ROOM RESERVATION FOR MEETINGS

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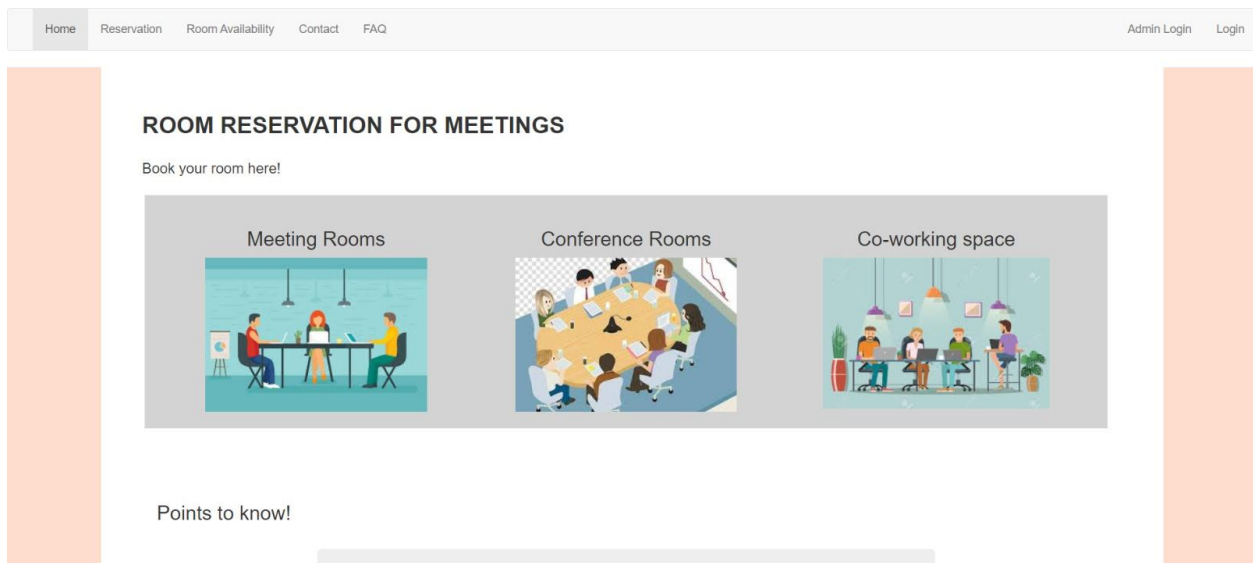
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ROOM RESERVATION FOR MEETINGS:

1.OVERVIEW:

Room Reservation for Meetings is an application useful for reserving rooms for meetings. This application consists of two types of end users admin and the regular users. Admin manages the whole application and has got privileges like adding, deleting and editing the rooms along with the regular user privileges. Users can access, select and reserve rooms online.

2.FUNCTIONALITIES:

#Index Page

Navigation Bar

- Home

- Reservation

- Room Availability

- Contact

- FAQ

-Admin Login

-Login (User Login/Signup)

Home Page:

- Home page consists of three images for meeting, conference and co-working room reservations. On clicking, each of the image will redirect to the reservation page of the respective type of room.
- We have FAQS (Frequently asked questions) at the bottom of the page followed by contact details.

User Login/Signup:

- User Name

- Password

- Login

- Cancel

- Forgot Password

My Account:

Once logged in user has the following functionalities:

-Show profile

-Edit Details

-Booking history

-Log out

#User Signup Form:

- User Name

- First, Last Name

-EMAIL(to confirm identity)

- Confirm EMAIL

- Password, Confirm Password

- Submit

- Cancel

#Admin Login:

Once logged in addition to the user functionalities admin also has the following privileges:

- Add room

- Edit room

- Delete room

- Cancel/Modify Reservation

- Remove/Add User

#Reservation:

- Room type (Meeting, Co-Working, Conference)

- Reservation Date

- Proceed/Cancel

On clicking proceed button it will redirect you to the room availability page.

#Room Availability/Slots:

- Displays available rooms under of the selected type.

- Clicking on a room shows the details and available time slots for that specific room.

- Each room will have respective price and on selecting each slot the price will be multiplied with the number of selected slots and the total price will be displayed.

- Proceed, Back, Cancel buttons.

- On clicking proceed room reservation gets confirmed.

Database Design

```sql
DROP DATABASE IF EXISTS rmbkngdb;

CREATE DATABASE rmbkngdb;


USE rmbkngdb;


DROP TABLE IF EXISTS USERS;

CREATE TABLE USERS(

USR_ID INT NOT NULL AUTO_INCREMENT,

USR_FNAME VARCHAR(100) NOT NULL,

USR_LNAME VARCHAR(100) NOT NULL,

USR_USERNAME VARCHAR(20) NOT NULL UNIQUE,

USR_ISADMIN BOOLEAN NOT NULL DEFAULT 0,

USR_EMAIL VARCHAR(320) NOT NULL,

USR_PASSPHRASE VARCHAR(320) NOT NULL,

USR_CRTD_DT DATETIME DEFAULT CURRENT_TIMESTAMP,

USR_UPTD_DT DATETIME,


PRIMARY KEY (USR_ID)

);



DROP TABLE IF EXISTS ROOM_TYPE;

CREATE TABLE ROOM_TYPE(
```

```
RM_TYP_ID INT NOT NULL AUTO_INCREMENT,

RM_TYP_NAME VARCHAR(320) NOT NULL,

RM_TYP_DESC VARCHAR(320),

PRICE DECIMAL(4,2) DEFAULT  0,


PRIMARY KEY(RM_TYP_ID)

);



DROP TABLE IF EXISTS ROOM;

CREATE TABLE ROOM(

RM_ID INT NOT NULL AUTO_INCREMENT,

RM_NUM VARCHAR(5) NOT NULL UNIQUE,

RM_CAPACITY INT DEFAULT 4,

RM_TYPE INT NOT NULL,

RM_DETAILS VARCHAR(320),

ADD_COST DECIMAL(4,2) DEFAULT 0,

RM_CRTD_DT DATETIME,

RM_UPTD_DT DATETIME,


PRIMARY KEY(RM_ID),

FOREIGN KEY (RM_TYPE) REFERENCES ROOM_TYPE(RM_TYP_ID)

);



DROP TABLE IF EXISTS TIME_SLOTS;

CREATE TABLE TIME_SLOTS(

TM_SLT_ID INT NOT NULL AUTO_INCREMENT,

TM_SLT_START TIMESTAMP,
```

```sql
    TM_SLT_END TIMESTAMP,

    PRIMARY KEY(TM_SLT_ID)
);



DROP TABLE IF EXISTS ORDERS;
CREATE TABLE ORDERS(
    ORDER_ID INT NOT NULL AUTO_INCREMENT,
    ORDER_USER VARCHAR(20),
    ORDER_COST DECIMAL(4,2) ,
    ORDER_TOTAL DECIMAL(4,2),
    ORDER_CRTD_DT DATETIME DEFAULT current_timestamp,



    PRIMARY KEY (ORDER_ID)

);



DROP TABLE IF EXISTS ENROLLMENTS;
CREATE TABLE ENROLLMENTS(
    EN_ID INT NOT NULL AUTO_INCREMENT,
    EN_RM_ID INT NOT NULL,
    EN_DATE DATE NOT NULL,
    EN_TIME INT NOT NULL,
    EN_ORDER_ID INT NOT NULL,
    IS_ACTIVE BOOLEAN DEFAULT 1,
```

PRIMARY KEY (EN_ID),

FOREIGN KEY (EN_RM_ID) REFERENCES ROOM(RM_ID),

FOREIGN KEY (EN_TIME) REFERENCES TIME_SLOTS(TM_SLT_ID),

FOREIGN KEY (EN_ORDER_ID) REFERENCES ORDERS(ORDER_ID)

);

Languages/frameworks used for implementation

- PHP
- MySQL
- MAMP
- Javascript
- jQuery
- Bootstrap
- HTML

Screenshots of the application

Reservation

Room Availability

Room Number	Room Type	Room Capacity
1212	Conference	6
4221	Conference	3

Reserve Slots

Room Details

1212 - Conference

A meeting room for 6 people only

Select slots

00:00	00:30	01:00	01:30	02:00	02:30	03:00	03:30	04:30	05:00	05:30	06:00
06:30	07:00	07:30	08:00	08:30	09:00	11:30	12:00	13:00	13:30	14:00	14:30
15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30	19:00	19:30	20:00	20:30
21:00	21:30	22:00	22:30	23:00	23:30						

Total Cost: $0 + $0.00 = $0

[Proceed] [Back] [Cancel]

Room Details

1212 - Conference

A meeting room for 6 people only

Select slots

00:00	00:30	01:00	01:30	02:00	02:30	03:00	03:30	04:30	05:00	05:30	06:00
06:30	07:00	07:30	08:00	08:30	09:00	11:30	12:00	13:00	13:30	14:00	14:30
15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30	19:00	19:30	20:00	20:30
21:00	21:30	22:00	22:30	23:00	23:30						

Total Cost: $40 + $0.00 = $40

[Proceed] [Back] [Cancel]

Room Look up:

Each meeting room costs $5 , Conference room costs $10 and Individual space costs $1 per half an hour!
There might be some additional costs incured and non-refundable!

Search

search

Search

Room Number	Room Type	Room Capacity	Room Details	Booked Date	Booked Time
1212	Conference	6	A meeting room for 6 people only	2019-12-05	10:00:00 - 10:30:00
1212	Conference	6	A meeting room for 6 people only	2019-12-05	11:00:00 - 11:30:00
1212	Conference	6	A meeting room for 6 people only	2019-12-05	09:30:00 - 10:00:00
1212	Conference	6	A meeting room for 6 people only	2019-12-05	04:00:00 - 04:30:00
1212	Conference	6	A meeting room for 6 people only	2019-12-05	10:30:00 - 11:00:00
1212	Conference	6	A meeting room for 6 people only	2019-12-05	12:30:00 - 13:00:00
1002	Meeting	8	A meeting room for 8 people only	---	---
2001	Meeting	5	A meeting room for 6 people only	---	---
2222	Meeting	10	Additional cost is acquired after calculating the total cost!	---	---
3001	Meeting	7	A meeting room for 3 people only but now you can accommodate 7	---	---

Reservation History:

Room Name	Room Type	Date	Timings	
1212	Conference	2019-12-05	11:00:00 - 11:30:00	Cancel Reservation
1212	Conference	2019-12-05	10:30:00 - 11:00:00	Cancel Reservation
1212	Conference	2019-12-05	10:00:00 - 10:30:00	Cancel Reservation
1212	Conference	2019-12-05	09:30:00 - 10:00:00	Cancel Reservation

User Details:

User Name	First Name	Last Name	Email
sk1286	Sunnyhith test	Kanakanti	skanakan@asu.edu

Edit User Details:

User Name:

sk1286

First Name:

Sunnyhith test

Last Name:

Kanakanti

Email:

skanakan@asu.edu

Submit

Add Room:

Room Number

Room Number

Room Type

Meeting   ▼

Room Capacity

Room Capacity

Additional Cost

Additional Cost

Room Details

Room Details

Submit

Edit Room:

1002   ▼

Proceed

Room Capacity:

8

RoomType:

Meeting   ▾

Additional Cost:

0.00

Room Details:

A meeting room for 8 people only

Submit

Delete Room:

Room Number:

1212   ▾

Delete

Room Number:

1002   ▾

Delete

This room has pending reservation and cannot be deleted!

Delete User:

User Name:

axg180085   ▾

Delete

Contact Details and FAQs:

Frequently asked questions:

How can I cancel the reservation?

How can I see my Reservations History?

How to reserve a room?

How can I edit my User details?

Contact

Apoorva Godasu   Chandana Yenugu   Bhargav Ratnakar Allampally

Work Division:

Apoorva Godasu: (Full-stack Developer)

Responsible for developing Reservation functionalities of the application and worked on UI, database and tested the application.

Bhargav Ratnakar Allampally: (Full-stack Developer)

Responsible for developing admin functionalities and worked on UI and application testing along with database.

Chandana Yenugu: (Full-stack Developer)

Responsible for developing user functionalities and worked on UI and database design along with application testing.