EAD CA2 PROJECT

C & S FACILITIES MANAGEMENT  
PROJECT SCOPE

**April 3, 2018**

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**PROJECT BACKGROUND AND DESCRIPTION**

C&S Facilities Management provide meeting room booking services to client companies. They require a web service to manage meeting rooms and room bookings.

System admin can create, update, delete meeting room data.

Users can view the characteristics of the available rooms e.g.. size, location, equipment.

Users can book a room within available time slots e.g. Mon – Fri, 8.00-18.00

Users can cancel or update their booking.

Users can view their booking history.

|  |  |  |
| --- | --- | --- |
| Project Plan | | |
| Week Commencing | Tasks |  |
| 9th April | Upload Proposal to Moodle  Create Project Base  Push on GitHub  Create Classes– Models (Booking +Meeting Room)  Create Classes – Models (User/Authenticate)  Create Database (EF Code First) | Complete  Complete  Complete  Complete  SJ/CVD  SJ/CVD |
| 16th April | Define REST Service methods – Controllers  CRUD |  |
| 23nd April | Define Views |  |
| 30th April | Define Views |  |
| 7th May | Create Console App to call operation & display results of analysis  URI Addressing Scheme  Unit Testing  Scale |  |
| 14th May | Deploy on Azure |  |

TaskList

Register

Login

Manager Administrators

Meetings Rooms

* See Meeting Rooms
* Get Meeting Room Details
* Create Meeting Room
* Update Meeting Room
* Delete Meeting Room
* Check Room Availability (ISRoomAvailable)

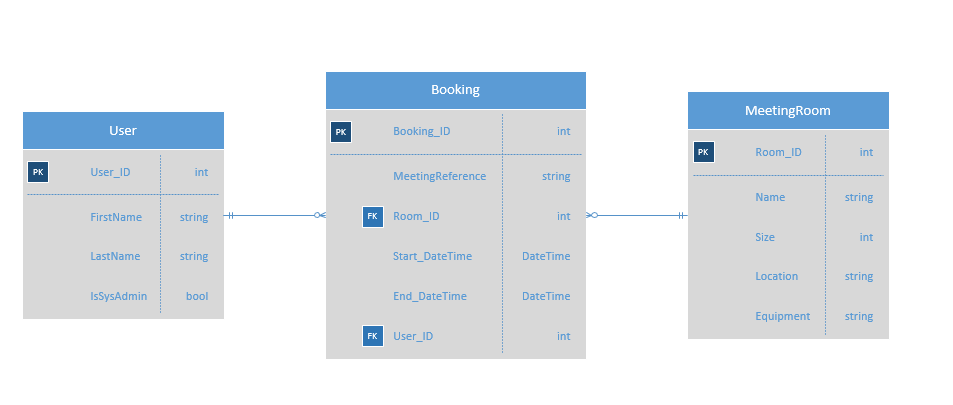
Home

* Index
* About
* Contact. Remove?

Bookings

* Index
* View My Bookings
* View All Bookings
* Create Booking
* Edit a Booking
* Cancel a Booking

Database Design



Data Design

Meeting Room Data (Enums?)

|  |  |  |  |
| --- | --- | --- | --- |
| Location | RoomID  (Name not required?) | RoomType or Size? | Equipment (Flexi or Fixed?) |
| One Spencer Dock | North Wall  Royal Canal  Grand Canal  River Liffey | Boardroom 20  U-Shape 18  Square 8  Round 4 | **Wi-Fi Projector Conference Phone White Board**  Wi-Fi Projector Conference Phone White Board  **Wi-Fi Conference Phone White Board**  **Wi-Fi Conference Phone** |
| Two Spencer Dock | Guild Street  Sheriff Street  Point Village | Theatre 50  Square 12  U-Shape 24 | **Wi-Fi Projector**  Wi-Fi Conference Phone White Board  Wi-Fi Projector Conference Phone White Board |

Booking + Test Data

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| User ID | BookingID | MeetingRef | RoomID | Day / Date | StartTime | EndTime |
| Jane Smith PWC | 1001 | PWC May Board Meeting | North Wall | Tuesday, 15/5/18 | 9.00 | 17.00 |
| Paul Dunne Point | 1002 | Point Management meeting | Sheriff Street | Monday, 14/5/18 | 15.00 | 17.00 |
| Ben Jones RG5 | 1003 | RG5 Weekly Sales Meeting | Point Village | Friday, 18/5/18 | 11.00 | 14.00 |
| Michelle Ryan PWC | 1004 | PWC Staff Briefing | Guild Street | Wednesday, 16/5/18 | 9.00 | 15.00 |
| Jane Smith PWC | 1005 | PWC Michael O’Neill | River Liffey | Tuesday, 15/5/18 | 15.00 | 16.00 |
| Shane Kelly Point | 1006 | Point Events Review | Grand Canal | Wednesday, 16/5/18 | 9.00 | 17.00 |
| Mark Duggan Gibson | 1007 | Gibson Client x569 booking | Guild Street | Thursday, 17/5/18 | 10.00 | 18.00 |
| Jane Smith PWC | 1008 | PWC Audit Partner Induction | Grand Canal | Monday, 14/5/18 | 10.00 | 15.00 |
| Mark Duggan Gibson | 1009 | Gibson Client x453 booking | Sheriff Street | Thursday, 17/5/18 |  |  |
| Shane Kelly Point | 1010 | Point Strategy Review | Royal Canal | Friday, 18/5/18 |  |  |

Test Scenarios

|  |  |  |
| --- | --- | --- |
| Test | Expected Outcome | Actual Outcome |
| **Tests: System Admin** | | |
| Register | Register successfully (Note: add manually to Admin role in table) | Register successfully (Note: add manually to Admin role in table) |
|  |  |  |
| Login | Login successfully |  |
| Read Meeting Room - verify data |  |  |
| Create Meeting Rooms | Cannot create if another room with same name exists |  |
| Update Meeting Room - change data and check data update | Cannot update if another meeting room has the same name |  |
| Delete Meeting Room - delete Meeting Room and check data update | Cannot delete if a meeting is happening in that room in the future |  |
| View all future bookings for all users |  |  |
| View meeting rooms details |  |  |
| Find room for booking | Only if date in future + on weekdays + from 8 to 5 |  |
| Book a room | Only if not already booked |  |
| Update a booking for any user |  |  |
| Delete a booking for any user |  |  |
| **Tests: User** | | |
| Access Home page unlogged |  |  |
| Access About page unlogged |  |  |
| Register |  |  |
| Login |  |  |
| View all meeting rooms |  |  |
| Search for a meeting room by name |  |  |
| Order meeting room list by name and size |  |  |
| Cannot create, edit or delete a meeting room |  |  |
| View only own future bookings |  |  |
| View meeting room details on booking |  |  |
| Book a room that’s free |  |  |
| Search for room at same date and times as above, room list should display all rooms except the one booked above |  |  |
| Get an error if trying to book a room already booked |  |  |
| Try to book North Wall meeting room on 15/5/18 from 13.00-15.00 | Error message: This room is booked.  No change to Available Room View |  |
| Try to book a room with an invalid user id | Error message: You are not authorised to use this booking system. Submit user request. |  |
| Try to book a room that does not exist | You cannot pass the drop-down selection. |  |
| Try Book a room with incomplete data | Error message: x data is required. |  |
| View available rooms on Tuesday 15/5/18 for all rooms | That’s not implemented, is it required? |  |
| View availability of River Liffey room | That’s not implemented, is it required? |  |
| Edit a Booking | Only if own booking and at valid dates and times and if room is free |  |
| Cancel a Booking | Only if own booking |  |
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| --- | --- | --- | --- | --- |
| **URI Definition & Test Table** | | | | |
| Action Type |  | Route | Purpose | Test |
| GET | // GET: MeetingRooms | https://localhost:44369/Meeting Rooms | View all Meeting Rooms |  |
| GET | // GET: MeetingRooms/Details/{keyword} | https://localhost:44369/Meeting Rooms/ | View Meeting Rooms with containing certain keyword |  |
| GET | // GET: MeetingRooms/Create | <https://localhost:44369/Create/>MeetingRooms | Create Meeting Room |  |
| POST | // POST: MeetingRooms/Create | https://localhost:44369/Meeting Rooms | Create Meeting |  |
| GET | // GET: MeetingRooms/Edit/5 | https://localhost:44369/Meeting Rooms |  |  |
| POST | // POST: MeetingRooms/Edit/5 | https://localhost:44369/Meeting Rooms |  |  |
| GET | // GET: MeetingRooms/Delete/5 | https://localhost:44369/Meeting Rooms |  |  |
| GET | // GET: Booking/Index | https://localhost:44369/Booking/Index |  |  |
| GET | // GET: Booking/Create | https://localhost:44369/Booking/Create |  |  |
| POST | // POST: Booking/CreateStep2 | https://localhost:44369/Booking/ |  |  |
| POST | // POST: Booking/CreatePost | https://localhost:44369/Booking/ |  |  |
| GET | // GET: Booking/Edit/5 | https://localhost:44369/Booking/ |  |  |
| POST | // POST: Booking/Edit/5 | https://localhost:44369/Booking/ |  |  |
| DELETE | // GET: Booking/Delete/5 | https://localhost:44369/Booking/ |  |  |
|  | //Find Available Rooms when date and time are picked | https://localhost:44369/Booking/ |  |  |
|  | //populate start time dropdown list | https://localhost:44369/Booking/ |  |  |
|  | //populate end time dropdown list | https://localhost:44369/Booking/ |  |  |
|  |  |  |  |  |