



FIT5032 Design Report (Major Application Development Credit/Distinction/High Distinction)

Hall Booking System

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INSTRUCTIONS: Substitute all RED text with your information. DELETE all BLUE instructions before final submission (in PDF format). Feel free to edit the format of the document to improve the presentation

Contents**Page**

Your design report must include the following:

Credit Level

1. Overview of your application's goals
2. User stories
3. Functional diagram
4. Usability Design Review
5. Checklist of site functionality.

Additional Distinction Level (the above and the following)

6. Your selected approach when constructing the application
7. Class Diagram or Entity Relation Diagram
8. Data dictionary

Additional High Distinction Level (the above and the following)

9. Development Methodology
10. Versioning

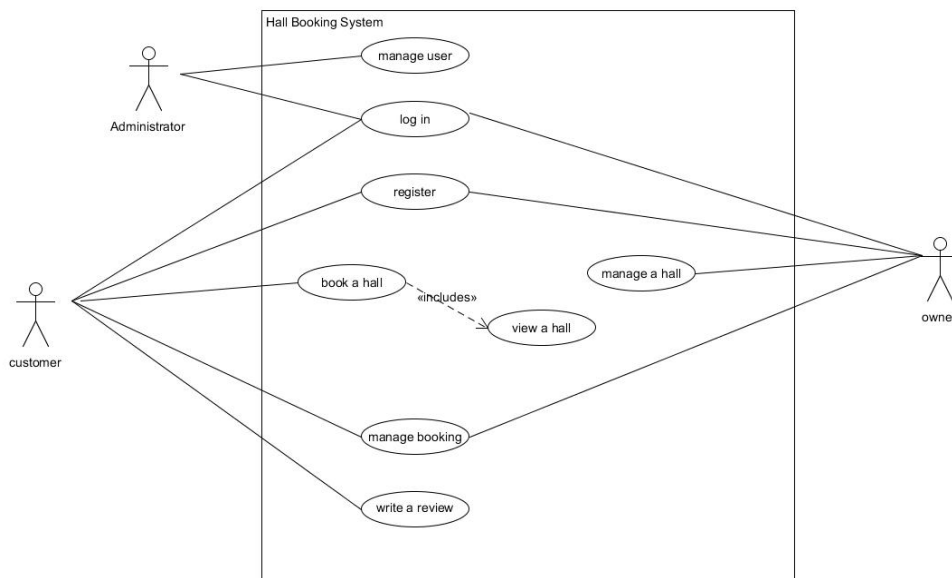
Your design report must include the following:

1. Overview (of your application's goals)

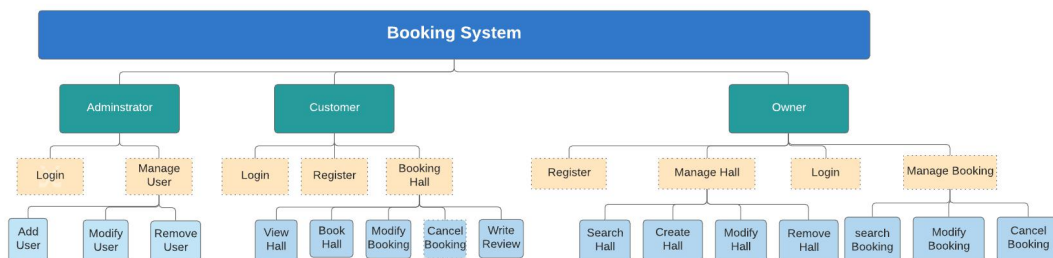
This system is mainly to help the company's staff to book a hall. The system contains three roles, administrator, owner of a hall, and customers.

2. User stories and Use case diagrams (that are driving your design decisions)

The owners can create and manage the halls' information. The customers can view the information about halls, and book a hall. The administrator can manage users.



3. Functional diagram (illustrating how the core aspects of the program fit together. You can provide either a functional diagram or a System Use Case diagram)



4. **Usability Design Review** (You can use either the Flow Bohl usability principle or Donald Norman Principles)

People increasingly like to travel with their friends or relatives. These people generally want to have a party at the end of the trip. Therefore, it is very important for travel companies to book a suitable venue in order to improve customer satisfaction. This system is very suitable for these travel companies. It will increase the efficiency of travel company employees. This system uses MS Identity, which will greatly improve the security of the system and ensure that information such as customers will not be stolen.

5. Checklist of site functionality

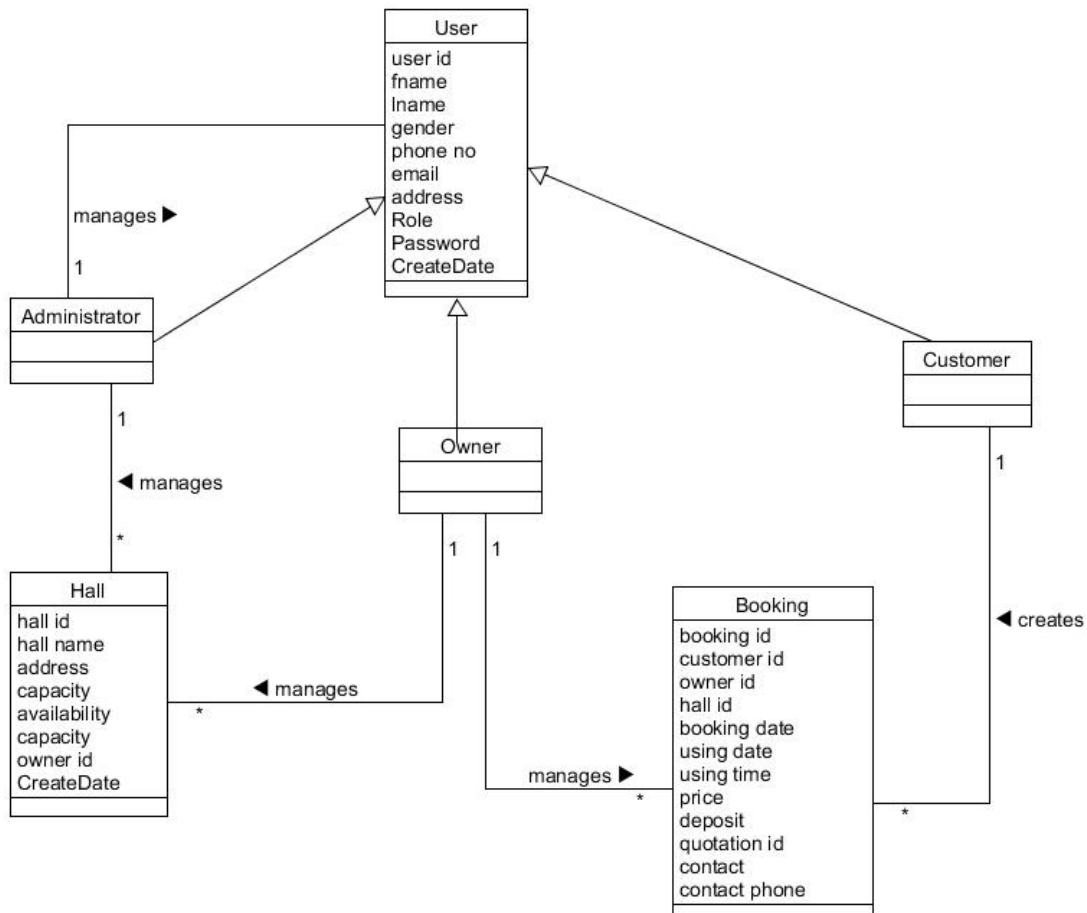
	TICK if complete
1. (Layout Page)	
Good Design	Y
Stylesheet	Y
JavaScript	Y
Menu	Y
2. (Home page)	
Design and content	Y
Banner Image	
3. (User Log in)	
Web form and validation controls	Y
Formatted data entry display	Y
Overall page design	Y
4. (Customised Views and Controllers)	
Customised Views	Y
Customised Controllers	Y
Other customisations	Y
5. (Documentation)	
Code Comments	
Attribution of Source of any code used	Y
6 Business Requirements	
BR(A1): for C to C+	Y
BR(A2): for C to C+	Y
BR(B1): for C to C+	Y
BR(B2): for C to C+	Y
BR(C1): for C+ to C++	Y
BR(C2): for C+ to C++	Y
BR(C3): for C+ to C++	Y
BR(D1): for D to D++	Y
BR(D2): for D to D++	Y
BR(D3): for D to D++	Y
BR(D4): for D to D++	Y
BR(E1): for HD to HD+	
BR(E2): for HD to HD+	Y
BR(E3): for HD to HD+	Y
BR(E4): for HD to HD+	
BR(E5): for HD to HD+	
Audit	
No breaking of copyright	

Additional Distinction Level (the above and the following)

6. Your selected approach when constructing the application.

Database First

7. Class Diagram or Entity Relation Diagram (If you are using the Model First or Code First approach, you will need to provide a class diagram. An Entity Relationship Diagram (ERD using Crows Feet or Chen Notation) should be provided if you decide to use the Database First methodology.)



8. Data dictionary (This includes the justification of the data types which you use)

SQLQuery2.sql | **dbo.Booking [Design]** | Create.cshtml | Create.cshtml | Create.cshtml

Update | Script File: **dbo.Booking.sql**

Name	Data Type	Allow Nulls	Default
Id	int	<input type="checkbox"/>	
CustomerId	nvarchar(128)	<input checked="" type="checkbox"/>	
BookingDate	date	<input checked="" type="checkbox"/>	
BookingTime	time(7)	<input checked="" type="checkbox"/>	
hallId	int	<input checked="" type="checkbox"/>	
fee	varchar(10)	<input checked="" type="checkbox"/>	
rating	int	<input checked="" type="checkbox"/>	
comment	varchar(MAX)	<input checked="" type="checkbox"/>	
ratingDate	datetime	<input checked="" type="checkbox"/>	
phone	varchar(20)	<input checked="" type="checkbox"/>	
createDate	datetime	<input checked="" type="checkbox"/>	

Keys (1)
 <unnamed> (Primary Key, Clustered: Id)
Check Constraints (0)
Indexes (0)
Foreign Keys (2)
 <unnamed> (Hall: Id)
 <unnamed> (AspNetUsers: Id)
Triggers (0)

SQLQuery2.sql | **dbo.Hall [Design]** | **dbo.Booking [Design]** | Create.cshtml | Create.cshtml

Update | Script File: **dbo.Hall.sql**

Name	Data Type	Allow Nulls	Default
Id	int	<input type="checkbox"/>	
OwnerId	nvarchar(128)	<input checked="" type="checkbox"/>	
Description	varchar(MAX)	<input checked="" type="checkbox"/>	
HallName	varchar(MAX)	<input checked="" type="checkbox"/>	
fee	varchar(10)	<input checked="" type="checkbox"/>	
Address	varchar(MAX)	<input checked="" type="checkbox"/>	
createDate	datetime	<input checked="" type="checkbox"/>	
openTime	time(7)	<input checked="" type="checkbox"/>	
closeTime	time(7)	<input checked="" type="checkbox"/>	
status	char(1)	<input checked="" type="checkbox"/>	
rating	numeric(1,0)	<input checked="" type="checkbox"/>	
latitude	numeric(10,8)	<input checked="" type="checkbox"/>	
longitude	numeric(11,8)	<input checked="" type="checkbox"/>	

Keys (1)
 <unnamed> (Primary Key, Clustered: Id)
Check Constraints (2)
 CK_Latitude (latitude)
 CK_Longitude (longitude)
Indexes (0)
Foreign Keys (1)
 <unnamed> (AspNetUsers: Id)
Triggers (0)

Design | T-SQL

```
1 CREATE TABLE [dbo].[Hall] (
2     Id INT NOT NULL,
3     OwnerId NVARCHAR(128) NOT NULL,
4     Description VARCHAR(MAX) NOT NULL,
5     HallName VARCHAR(MAX) NOT NULL,
6     fee VARCHAR(10) NOT NULL,
7     Address VARCHAR(MAX) NOT NULL,
8     createDate DATETIME NOT NULL,
9     openTime TIME(7) NOT NULL,
10    closeTime TIME(7) NOT NULL,
11    status CHAR(1) NOT NULL,
12    rating NUMERIC(1,0) NOT NULL,
13    latitude NUMERIC(10,8) NOT NULL,
14    longitude NUMERIC(11,8) NOT NULL,
15    CONSTRAINT PK_Hall PRIMARY KEY (Id),
16    CONSTRAINT CK_Latitude CHECK (latitude <= 90 AND latitude >= -90),
17    CONSTRAINT CK_Longitude CHECK (longitude <= 180 AND longitude >= -180),
18    CONSTRAINT FK_Hall_AspNetUsers FOREIGN KEY (OwnerId) REFERENCES AspNetUsers (Id)
```

Additional High Distinction Level (the above and the following)

9. **Development Methodology**

I used Code and Fix method or using a Test Driven Development)

10. **Versioning**

I have used GitHub to control the version of my project.

https://github.com/cyuu0020/FIT5032_Assignment_W12