**Project team # 6- <Online restaurant reservation system>**

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***Overview:***

The proposal is to create a online reservation system for a restaurant, besides providing other features like employee portal, and a job portal for the particular restaurant. The primary idea behind this project is to save data in a centralised database that can be accessed by any authorised person to get information.

***Scope and objective:***

This project will focus on online reservation system, employee portal and creating a job portal where individuals can look for the open job positions and drop an application for the position they are interested in. It also features a rating where customers are encouraged to post their views on the restaurant so that the restaurant can improve its functioning based on the ratings.

***Project Environment***:

We are developing a web based application for a restaurant. Using HTML as our primary source for developing the web page and link the data base MySQL using php interface.

## ***HIGH LEVEL REQUIREMENTS***

***User roles***:

1. Customer: A customer is any user who can make a reservation in the restaurant for a particular day and time.
2. Employee: An employee is a person who works for the restaurant.
3. Applicant: An applicant is a user who can see the job openings available in the restaurant and apply for the same.

***Initial user stories***:

1. As a customer, I want to reserve a table.
2. As a customer, I want to view the menu of the restaurant so that I can see what dishes are available in the restaurant.
3. As an employee, I want to view my employee portal so that I can see my details like salary.
4. As an employee, I want to edit the menu of the restaurant so that I can add or delete dishes as per the availability.
5. As an applicant, I want to view the job openings so that I can see if there is an opening suitable for me.
6. As an applicant, I want to apply for the job openings.
7. As an employee, I want to edit the reservations so that I can make any necessary changes.
8. As a customer, I want to view the available slots.

### **Initial user story descriptions in order of priority:**

1. As a customer I want to view available slots.
2. As a customer, I want to reserve a table.
3. As an employee(manager), I want to edit the menu of the restaurant.
4. As a customer, I want to view the menu of the restaurant.
5. As an employee(manager,parttime,fulltime), I want to view my employee portal.
6. As an employee(parttime,fulltime), I want to edit the reservations.
7. As an applicant(anyone), I want to apply for the openings.
8. As an employee, I want to edit the reservations.

## ***SPRINT 1***

### **Story refinement, with notes:**

1. As a customer I want to view available slots.

Notes:

* Rename Customer to Guest to better reflect meaning.
* Available slots refers to the availability of table in the restaurant.

Updated story:

* As a Guest, I want to view available tables in the restaurant.

1. As a customer, I want to view the menu and reserve the table.

Notes:

* Rename Customer to Guest to better reflect meaning.
* Table is reserved by providing name, contact number, number of people.

Updated story:

* As Guest, I want to view the menu and then reserve the table by providing my name, contact number, and number of people.

3. As an employee(manager), I want to edit the menu of the restaurant.

Notes:

* Employee is a general term for all employees. It may be manager, part time employee or a full time employee.
* Here edit means adding or removing dishes.
* Multiple dishes can be added or removed. So rephrase story to reflect it.
* User must logged in as Manager in order to add/remove dishes to/from the menu.
* Only the manager is given the access and right to edit the menu of the restaurant.

Updated story:

* As a Manager, I want to login to the system in order to access features specific to my role.
* As a Manager, I want to add dishes to the menu.
* As a Manager, I want to remove dishes from the menu.

### **Stories to be considered for sprint 1, in order of priority:**

1. As a Guest, I want to view available tables in the restaurant.
2. As Guest, I want to view the menu.
3. As Guest, I want to reserve the table by providing my name, contact number, and number of people.
4. As a Manager, I want to login to the system in order to access features specific to my role.
5. As a Manager, I want to add dishes to the menu.
6. As a Manager, I want to remove dishes from the menu.

***Entities and relationships***:

Entities:

1. Guest
2. Employee
3. Applicant
4. Bookings
5. Menu
6. Openings

Relationships:

1. Guest reserves Restaurant\_table
2. Guest views the menu.
3. Employee edits bookings.
4. Employee edits the menu
5. Applicant views the job openings
6. Applicant applies to the job openings

**SPRINT1**

### **Conceptual design**

Entity: **Guest**

Attributes:

guest\_id

Full\_name

meal\_type

phone\_number

number\_of\_people

Entity: **Employee**

Attributes:

emp\_id

Password

Name[composite]

first\_name

last\_name

dob

salary

type

age [derived]

contact

address [composite]

address\_line\_1

address\_line\_2

Zipcode

City

State

date\_of\_joining

Entity: **Restaurant\_table**

Attributes:

table\_id

capacity

status

Entity: **Menu**

Attributes:

dish\_name

price

description

Relationship: Guest reserves Restaurant\_table

Cardinality: One to One

Participation:

Guest has partial participation

Restaurant\_table has total participation

Relationship: Guest views the menu

Cardinality: Many to One

Participation:

Guest has partial participation

Menu has total participation

Relationship: Manager edits the menu

Cardinality: one to one

Participation:

Manager has a partial participation

Menu has total participation

### **Logical design**

Table: **Guest**

Columns:

guest\_id

Full\_name

meal\_type

phone\_number

number\_of\_people

Table: **Employee**

Columns:

emp\_id

Password

first\_name

last\_name

dob

salary

type - takes values as Manager, Full Time and Part Time

contact

address\_line\_1

address\_line\_2

Zipcode

City

State

Date\_of\_joining

Justification: Generalized table Employee for all kinds of employees such as Manager, Full Time and Part Time employees.

Table: **Restaurant\_table**

Columns:

table\_id

capacity

status

Table: **Menu**

Columns:

dish\_name

price

description