**Assignment 2**

**Description:**

A restaurant chain has reached out to your team to build a reservation system.

**Here are the details:**

* Two categories of users / customers: guest user or registered user.
* Users should be able to search for a table and reserve.
  + User doesn’t need to login to the system to reserve a table. If registered users, they can login.
  + User enters name, phone, email, date and time (date picker), and # of guests for dining and system presents available tables.
  + Tables have maximum capacity limit i.e., 2, 4, 6, or 8.
  + Different combinations are allowed, and owner accommodates the seating, for example: someone requests 8 guests and table for 8 is not available but 2 + 6, or 4+4 is available. System should combine the tables and notify owner they need to combine tables. In this case System reserves both tables.
* If a guest user i.e., not a registered user, system should prompt user to register (Optional) before finalizing the reservation.
* Registered users will have these fields:
  + Name, mailing address, billing address (checkbox if same as mailing address), Preferred Diner # (system generated), Earned points (based on $ spent i.e., $1 is 1 point), preferred payment method (cash, credit, check).
* System should track high traffic days / weekends and a hold fee is required i.e. July 4th will require valid credit card on system to reserve the table.
  + Notify user no show will have minimum $10 charge.

**Assumptions:**

If you make any assumptions to provide good user experience, please list it.

**Answer these questions:**

1. Based on your understanding of the above requirements, list functional and non-functional requirements for this project. (10 points)
2. Use Case diagrams for each functional requirement. (15)

**REQUIRED:**

Fill in this table, provide as many details as possible:

|  |  |  |
| --- | --- | --- |
| Group Member Name | What is your contribution? | Discussion Notes |
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**What to turn in:**

- Only soft copy uploaded on or before due date.

- No extensions.

- To get full credit provide details and diagrams (when appropriate).