

## Project

### **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.
  - o User doesn't need to login to the system to reserve a table. If registered users, they can login.
  - o User enters name, phone, email, date and time (date picker), and # of guests for dining and system presents available tables.
  - o Tables have maximum capacity limit i.e., 2, 4, 6, or 8.
  - o 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:
  - o 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 4<sup>th</sup> will require valid credit card on system to reserve the table.
  - o 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. Implement the web or mobile application following the SE best practices we covered in this class.
2. You should have already picked the tools and technologies and provided the details in assignment 3. If you are changing it, provide reasoning. Whatever programming language / framework you pick, make sure you are familiar with it. When you are stuck, the group should find the solution.
3. Working and demonstrable code.
4. Demo with TA. Each team member must participate.

**REQUIRED:**

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

Group Member Name	What is your contribution?	Discussion Notes
1.		
2.		
3.		

**What to turn in:**

- Only soft copies of UI screenshots uploaded to blackboard before due date.
- No extensions.
- Frequently check in to GitHub.
- Each team member must equally contribute.
- To get full credit provide details and diagrams (**when appropriate**).

**Notes:**

You can start early on this project along with assignments.