

RESTAURANT RESERVATION SYSTEM

TEB1043 – Object Oriented Programming
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Group Name: ReserveIT

Submitted by

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PROJECT OBJECTIVES :

i) **Develop a User-Friendly and Efficient Reservation System**

- Design a user-friendly client application for customers to search for available tables, select their preferred time slot, and manage reservations conveniently.
- Enable customers to manage their reservations efficiently and make changes or cancellations as needed, minimizing inconvenience and maximizing flexibility.

ii) **Leverage Advanced Java Programming Techniques and Best Practices**

- Implement a modular and maintainable codebase by applying fundamental object-oriented programming principles.
- Enhance user interaction and experience by creating a visually appealing and intuitive graphical user interface (GUI).

iii) **Ensure Real-Time Updates**

- Implement real-time updates on table availability to provide customers with accurate and up-to-date information based on changes made in table status, reducing waiting times and enhancing customers' overall experience.

PROJECT DETAILS :

Input: Customers can input their reservation details such as the date, time and table preferences. Customer details can also be inserted which includes their name, contact, party size and any special requests. Lastly, the employees have the ability to update the table availabilities.

Process: The program will employ an intuitive and minimalistic design to facilitate seamless navigation and utilization by users, irrespective of their technical proficiency. The entered customer details, including the inputs provided, will undergo comprehensive data handling processes. Then, staff manage and view these reservations, ensuring they can accommodate customers' needs and updating table availability as necessary. The system handles all reservations efficiently, maintaining accurate records of table availability and special requests.

Output: A confirmation message will be displayed to the customer with their reservation details. Other than that, an option to cancel the reservation will be shown.

MARKET POTENTIAL:

i) Market Demand

- Efficient and convenient system that will help restaurants to have better reservations management and reducing manual customer entries.
- Increased gadgets penetration with online ordering trends to reduce customer's time spent in a restaurant while improving customer amenities.

ii) Target Market

- Our system focuses on casual dining restaurants where it is normally packed at peak hours such as lunchtime and dinner. Hence the need for a reservation system to predict customer traffic during peak hours. This allows for better staff scheduling and inventory management as well as increasing revenue.