



Restaurant Reservation and Menu Management

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Background :

Problem:

- Restaurants struggle managing table reservations and menu updates efficiently.
- Peak-time customer flow and popular dish tracking are hard without a database.

Goal:

- Build a web system to manage reservations, menu items, and staff operations.

Why this idea:

- Demonstrates Real World Application of database design.
- Lots of Restaurant Data that can be managed

Target Users

Customers

- Browse Menu
- Reserve Tables
- View/ Cancel Reservations

Staff

- Confirm/ Cancel Reservations
- Update Menu Items

Admin

- Track Reservations
- Monitor Dish Popularity
- Generate Reports

Context

Making A Reservation

- Customer visits website
- Select's Date, Time, and Number of Guests
- Customer Selects Best Option from the Time Given
- Customer Information is added into Database

Viewing The Menu

- Customers Can view the menu online before visiting the location
- Option to sort and filter by meal/course type/restrictions

Roster

- Employees can login to view their schedule
- Can request time off
- Time off is added to database table

Report on Dish Trends

- Management can see which dishes are most popular
- Can see the total of all dishes sold and how much revenue is made on each dish.

Restaurant Name

Logo

Locations

Menu

Make a Reservation

About the Restaurant.....

Where it's located.....

How to Contact us....

Reservation Status.....

Employee Login

Task Delegations

Amanda (DB)

- Research data requirements (users, customers, products)
- Build tables for specific research
- Test functionality of my specific requirements

Emma (Front- end)

- Research workflow and processes (orders, bookings, inventory)
- Build tables for specific research
- Test interactions between 1st and 2nd persons sections

Katerina (Back-end)

- Research user interactions (admin tools, reporting, search features)
- Build tables for specific research
- Test overall usability and accuracy when each persons section is completed.

All : Researching data we want to include, create slides, and present slides equally

Project timeline

Week 1

- Create Relationship Scheme
- Create Database using mySQL, Test Data Insertion
- Finalize Project Goals/ Plan

Week 2-3

- Build Customer UI: Menu browsing, reservation form, reservation confirmation
- Implement form validation and basic interactivity
- Connect to DB for sample reservation testing

Week 4-5

- Build Staff UI: dashboard with pending reservations, table management
- Build Admin UI: reports, popular dishes, busy hours
- Connect staff/admin actions to database

Week 6-7

- Integrate front-end and back-end completely
- Test all CRUD operations: add/update/delete reservations, menu items
- Test multiple user scenarios: customer, staff, admin

Week 8

Finalization and Debugging