DATABASE LAB PROJECT PHASE 1

Submitted by

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Title
Online food ordering Website Database

PROJECT SUMMARY

"Andaaz-e-pakwaan" is a simple online food ordering website which will allow
the users to explore menus and select meals and place orders easily.

PURPOSE:

The purpose of this is to offer a smooth and easy food-ordering experience through a well-structured database that supports essential functions like product browsing and cart management. This project focuses on building a database driven backend for the website. The database will store and manage information about food items, categories and carts. It will ensure smooth data handling for user interactions like viewing products, filtering items and managing the shopping cart.

PAGES IN THE PROJECT

- **Home Page**: This displays featured items or categories allowing users to search and browse food options.

- **Products Page**: Shows all food items with filters e.g., category, price, ratings, using data received from the database.

- **My Cart Page**: Allows users to view the food items they've added to their cart, modify quantities or to remove items before placing the final order.

TARGET AUDIENCE

The primary target audience includes basically everyone:

- **University students** and **young professionals** looking for quick and convenient food options.

- **Tech users** who are comfortable browsing and ordering food online.

- **Small food businesses or local restaurants** that want to explore an easy to use digital platform for managing food orders.

WHY THIS PROJECT IS IMPORTANT
The use of a database allows efficient and precise storage, retrieval and manipulation of data which is essential for real time user interactions on the website. This helps to make sure accuracy, speed and ease in the food ordering process.

DATABASE COMPONENTS

The database includes tables like:

- **Products** (ProductID, Name, Category, Price, Description, Rating)

- **Categories** (CategoryID, CategoryName)

- **Cart** (CartID, UserID, ProductID, Quantity)

- **Many more tables like:** cart items, user, order, and review.

These tables are linked using foreign keys and will be used to perform SQL operations such as inserting new items, updating cart contents, and retrieving filtered food items.

ENTITY RELATIONSHIP DIAGRAM:

- One category has many products.
- One cart has many cart items.
- One product can be in many cart items.
- One user can have many carts.
- One cart belongs to one user or can be anonymous.
- Reviews can stand alone but could be linked to users and products.

Category
- C_id
- C_name

Has many

Products
- P_id
- P_name
- P_description
- P_category
- P_price
- C_id(FK)

User
- User_id
- Username
- Created_at
- Email
- Password
- Address

Have 1 or more

Cart
- Cart_id
- User_id(FK)
- Date

Contain many items

Cart Items
- CartItems_id
- Cart_id(FK)
- P_id(FK)
- Quantity
- Price

Can Have 1 or more

Have 1

Order
- Order_id
- Status
- Order_Date
- Total Amount
- Cart_id(FK)
- User_id(FK)
- Delivery Address

Review
- Rating
- Review_id
- Customer_name
- Comment