Day - 1 Submission:-

Laying the foundation of my Market place Journey:-

1- Introduction:

The food business market place is an online business platform that connects sellers (restaurants, food trucks, grocery stores etc) with customers who want to purchase food items. The market place may offer a wide variety of food products, including fresh produce, prepared meals, snacks or speciality items.

2- Key Components:-

* Seller/Vendors :- Restaurant, local shop, food manufacturers, delivery services
* Services:-
* Customers:- Individual buyers who want to browse, order and pay for food
* Administrator:- Manage platform operations, including customer/vendor support, payments and product listing.

3- Use case:-

* Vendor Registration:- Sellers can register and

List their food items
- Product Search:- Customers can search for specific items or browse catagories.

- Order placement:-
  Customer place orders based on their selection

- Payment processing: Secure payment gateways for online transactions

- Order full-fillment:- Sellers fulfill and deliver orders to make them available for pickup

- Feedback and Ratings:- Customer can leave feedback or reviews on products and vendor

- Admin Dashboard:- Admin manages platf data, product listings, user management and analytics.

4- Functional Requirements:-

- User Authentication:- Users (both sellers & C need account to login.

- Product Management:- Seller should be ab add/edit details

- Search & filter:- Customers needs effi search filters based on product type,

2- Product :-
    Product_id (Primary key)
    Vendor_id (Foreign Key_users)
    product_name,
    Description , Price , category , image_url,
    availability , created_at , updated_at

3- orders -

    order_id (Primary key)   customer_id (Foreign key
    Vendor_id (For_key) , Total_amount ,
    status (Pending, completed canceled)
    order_date , shipping_address.

4- order_items :-
    order_item_id (Primary key)   order_id (Foreign
    key) , Product_id (Foreign id, products),
    quantity , Price .

5- Payments a-
    Payment_id (Primary Key) , Order_id (Foreign
    key - orders) , Payment_status (Paid, Pending, Fail
    payment_date , Payment_method

6- Reviews :-
    1- review_id (Primary_key) , Product_id (Foreign
    Product) ; customer_id (Foreign_key users)
    Rating (1-5) , comment , created_at

7- customer feedback :- After Receiving the order, the customer can leave a review.

7- Security Consideration :-

• Data Encryption :- Secure user data with encryption protocols.

• Payment Security :- Use secure, ~~Pe~~ Pci-Complaint Payment gateways.

• Acess Control :- Implement role based access control. -to Restrict access to admin & Vendor functionalties.

8- Conclusion :-

Above document o comprehensive framework for food business marketplace. It details the technical structure, database schema, workflow, security measures Necessary to create functioning platform.

rating etc.

- Payment Gateway Integration:- integration with Secure payment System (e.g Stripe, Paypal)

- Notification System:- Real Time order-updates, Product availibity and promotions

4- Technical Requirements:-

- Database:- Rational or NoSQL Database to manage Users, Product, orders & transaction
- API:- Integration with Third party API's (e.g Payment gateways, delivary services)
- Front-End:- A responsive website or mobile App for browsing and ordering.
- Back-End:- A service-side application to handle request, data Storage and security

5- Schema (Database Design)

The Schema for This market place will include Tables for managing users, Product orders, Payment

Tables :-

1- users :-
- User Id (Primary key), name, email, Password, role (Customer, Vender, Admin), address, Phone number, Created_at

6- Workflow Diagram:-

1- User Registration/Login:

   • A customer puso registers/logs into the Platform.

2- Browse/search Products:-

   The customer can browse products by category Price, or search for specific items

3- Add to cart & place order

   After selecting Products, the customer adds them to their cart and place an order

4- Payment Processing

   The customer proceeds to payment through a payment gateway.

5- Order Confirmation:- The order is confirmed, and vendor begins processing it.

6- Order fullfillment:- The vendor fullfills the order either by shipping it or making it available for Pickup

7- Catagoriess-

Category-id (Primary key)
category_name , description
etc

Schema Diagram (ER- Diagram)

Users

7 User_id (Pk)
name
email
Password
role
address
Phone-number

Products

Vender_id (Fk)
Product_id (Pk)
Product-name
description
Price
category
availibity

Orders

Customer_id (FK)
order-id(Pk)
Total amount
status
order_date
shipping_adres

Order_Items

order-id (Fk)
Product-id (Fk)
quantity
price

Payments

Payment-id (Pk)
order-id (Fk)
Payment-status
Pay-date
Payment-method