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Name: Select a capstone project from github & draw & explain DFD, Use case and the object diagram of that system.

Answer:

Select Project: Food delivery system

A Food delivery system is a popular capstone project that allows users to order food from restaurants; track their delivery and manage menus. For this, example, I will assume a system with the following features:

- 1. User registration and login -
- 2. Browse restaurant menus and place food order.
- 3. Track the status of orders (preparing out for delivery delivered)
- 4. Admin manage restaurants, menus and delivery staff.
- 5. Delivery person update the order status
- 1. Data Flow Diagram (DFD):

Level O: Context Diagram

- > Entitles:
 - -User
 - Admin
 - -Restaurant
- Delivery person



Admin: Manages restaurants menus: sesses -order food delivery staff - Manage menu/restaurants - Delivery food Restaurant owner: Update the menu der -> Data Stores: AUSe Cases: -login/Register(all actors) - User database. -Order database -Browse Menu (USEr) - Menu database -Place Order (User) Level 1: Detailed process breakdown unam approm-+processes: -Assign Delivery (Admin) -User Browser Menu! Fetch menu item from the database -place order: Save the order details into the order data_ 3. Object Diagram: base -Assign Delivery: Admin assigns orders to delivery with specific objects at a pointoine. For the Track order: User checks the status of the order. might includes: 2. Use case diagram: - objects: - User: Attributes, include name, email is zratoAc User: Browses the menuplaces an order, tracks delivery.



Admin: Manages restaurants, menus and assigns_ delivery staff

+ Data Stores!

- User database

-Order database

- Menu database

2. Use case diagram:

+ Processes:

Delivery Person: Update delivery status

Restaurant owner: Update the menudetails.

JUSE Cases:

- -login/Register(all actors)
- -Browse Menu(User)
- -Place Order (User)
- Manage Menu (Admin/Restaurant owner)
- -Assign Delivery (Admin)
- Update Delivery status (Delivery Person)
- -Track Order (User)

-place order: Save the order details into the order 3.00 to 100 t

An object diagram represents the systems state with specific objects at a point in time. For the Food delivery system, objects and relationships might includes:

-) objects:

- -User: Attributes, include name, email, address
- Menu: Attributes include item Name, price, restaurant



Order: Attributes include orderID, OrderStatus, deliveryPerson,

Delivery Person: Attribute includes name, contact.

Restaurant: Attribute includes restaurant Name, Location.

Relationships:

- -A user places one or more orders.
- An order has one Delivery Person.
- -A restaurant provides one or more menu items.