

## Problem Statement : Food Delivery Order API

### Models

#### RoleModel

Field Name	Datatype	Primary Key	Comments
id	Integer	Yes	Autoincrement
rolename	String	No	Values: "CUSTOMER", "DELIVERY_AGENT"

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#### UserModel

Field Name	Datatype	Primary Key	Foreign Key	Comments
id	Integer	Yes	No	Autoincrement
username	String	No	No	-
email	String	No	No	Unique
password	String	No	No	-
role	Integer	No	Yes	FK to RoleModel

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#### OrderModel

Field Name	Datatype	Primary Key	Foreign Key	Comments
id	Integer	Yes	Autoincrement	
customerId	Integer	No	FK to UserModel	
items	String	No	Comma-separated list	
baseAmount	Double	No	Sum of item prices	
deliveryFee	Double	No	Default: 50	
discountPct	Double	No	Default: 0	
gstPct	Double	No	Default: 5	
finalAmount	Double	No	Calculated: (baseAmount - discount) + gst + deliveryFee	
orderDate	String	No	Default: Current date	
status	String	No	Default: "placed"	

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### Endpoints

#### 1. POST /order/create (CUSTOMER only)

- Manipulations:
  - discount = baseAmount \* (discountPct/100)
  - gst = (baseAmount - discount) \* (gstPct/100)
  - finalAmount = (baseAmount - discount) + gst + deliveryFee

2. GET /order/list?minAmount=500&status=placed&maxItems=3 (Both roles)

- Filters by minAmount, status, and number of items.

3. PATCH /order/update/{id} (DELIVERY\_AGENT only)

- Updates status to "delivered".

4. DELETE /order/delete/{id} (Conditional)

- Delivery agent or customer who placed can delete.

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 Manipulations: Discount, GST, delivery fee combined into finalAmount; query params with minAmount + status + maxItems.