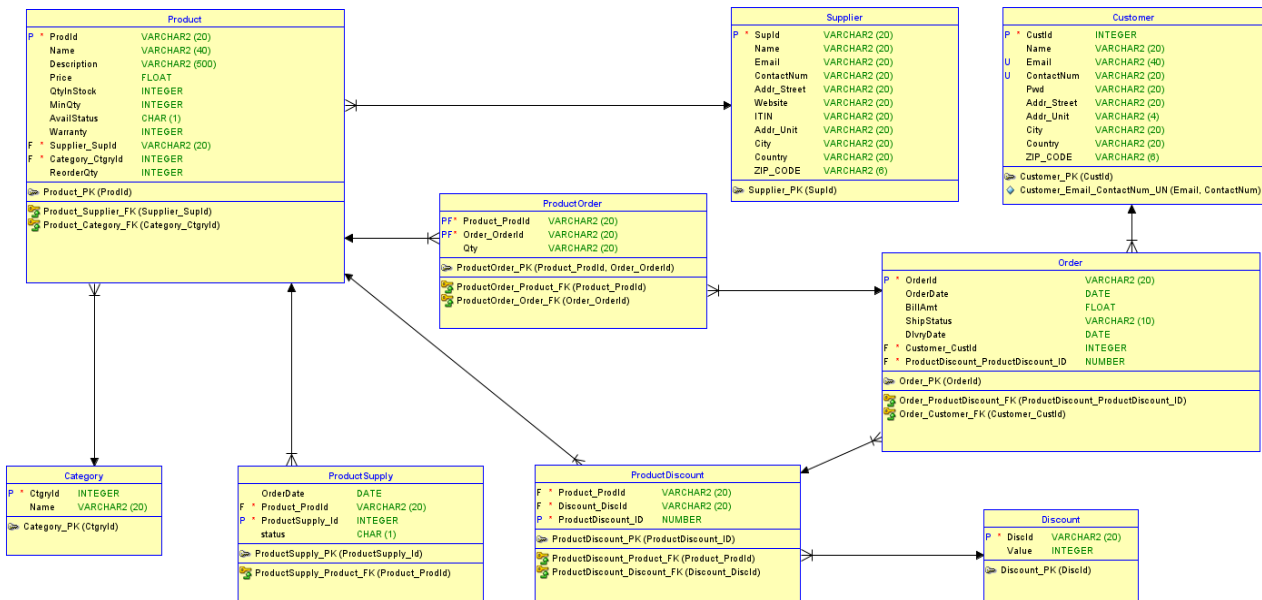


DAMG 6210 PROJECT- PHASE 2

TEAM: RELATIONAL NINJAS

1) REVISED ERD

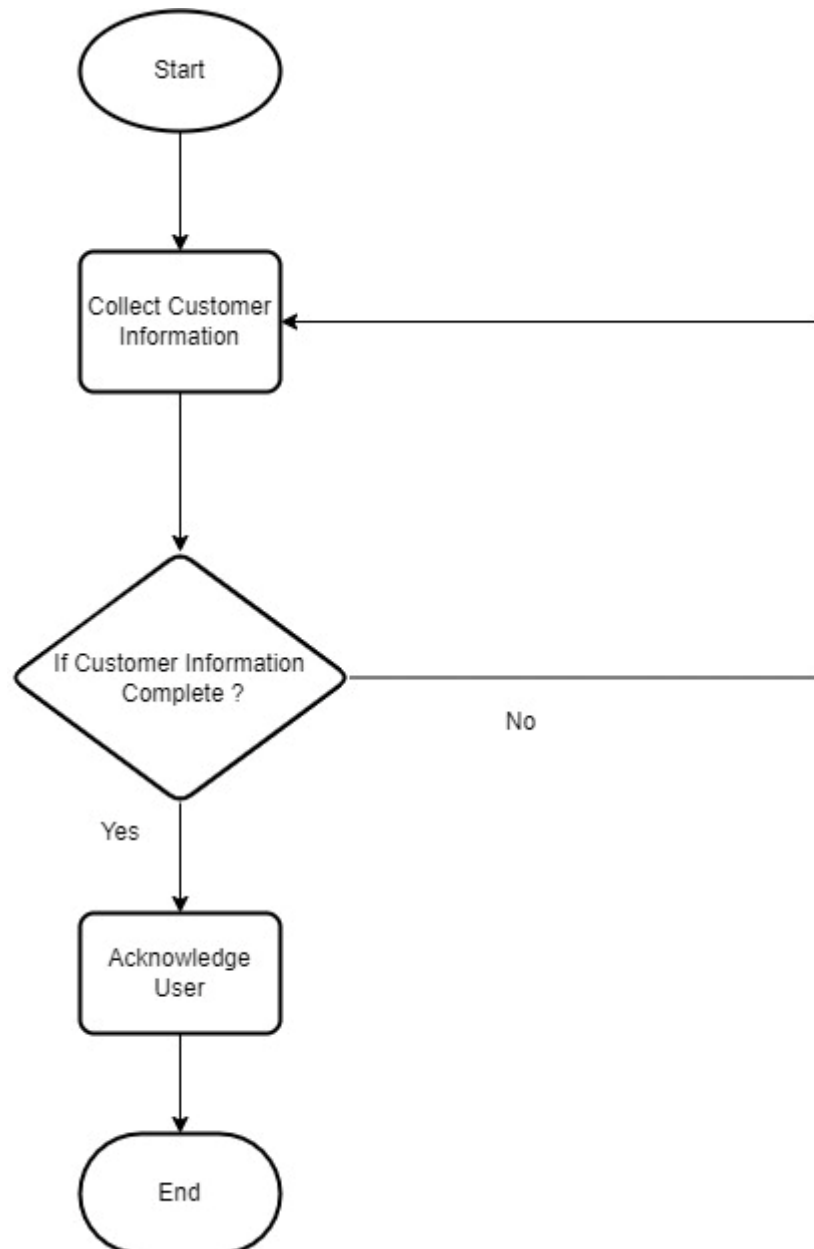


2) Business Rules

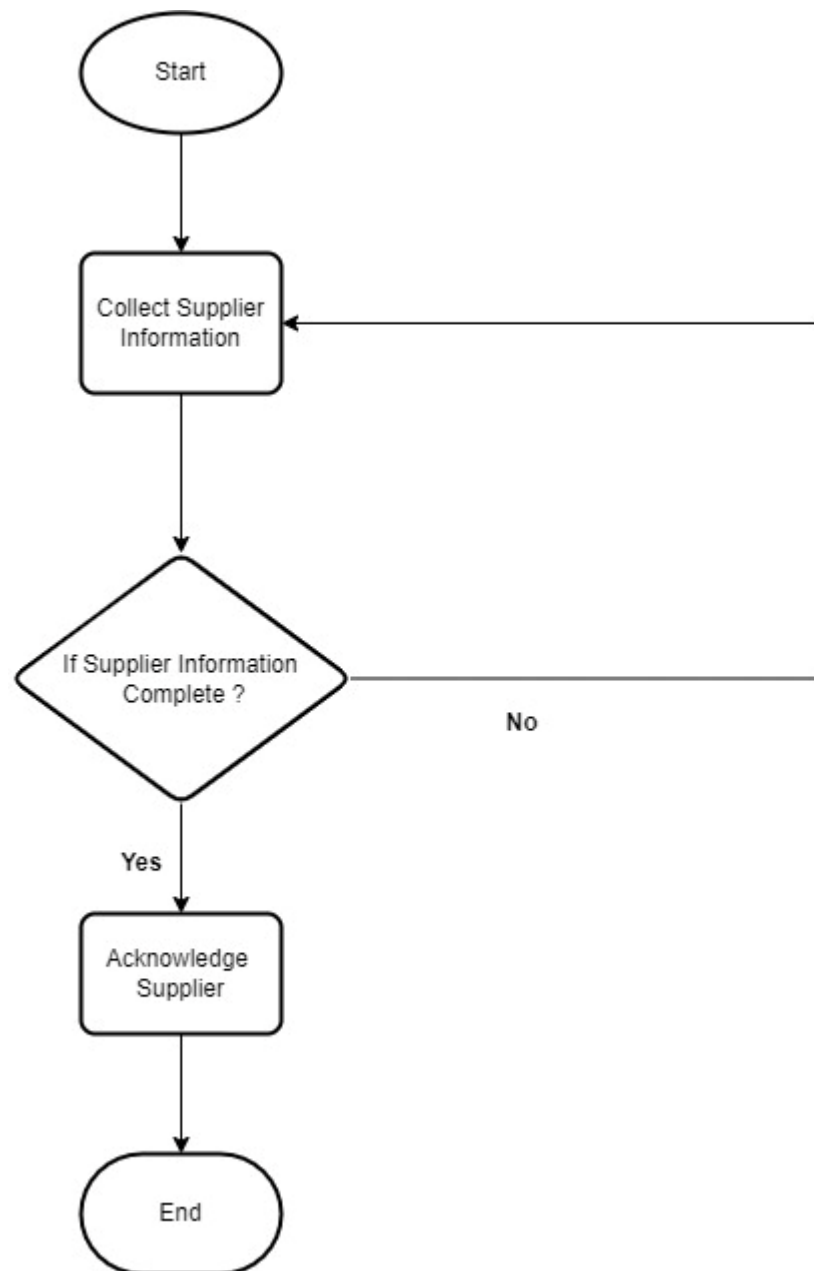
- **ProductDiscount**: Only one discount code can be applied for an order, which again is applied for one product
- **Category**: A product must belong to only one category
- **ProductOrder**: A customer cannot place bulk orders, he is entitled to order a product up to a specific quantity.
- **Product Reorder**: A constant number of quantities is only ordered every time from the supplier. Calculated at the time when the product is created ($\text{ReorderQty} = \text{QtyInStock} - \text{MinQty}$)
- **Supplier**: The supplier never runs out of stock, which implies products ordered from the ImsAdmin will always reflect the Product table in an increase of quantity.
- **Order**: An order placed cannot be cancelled, Instead the customer can edit the order as per his requirement

3) DFD (Data Flow Diagrams) for each module

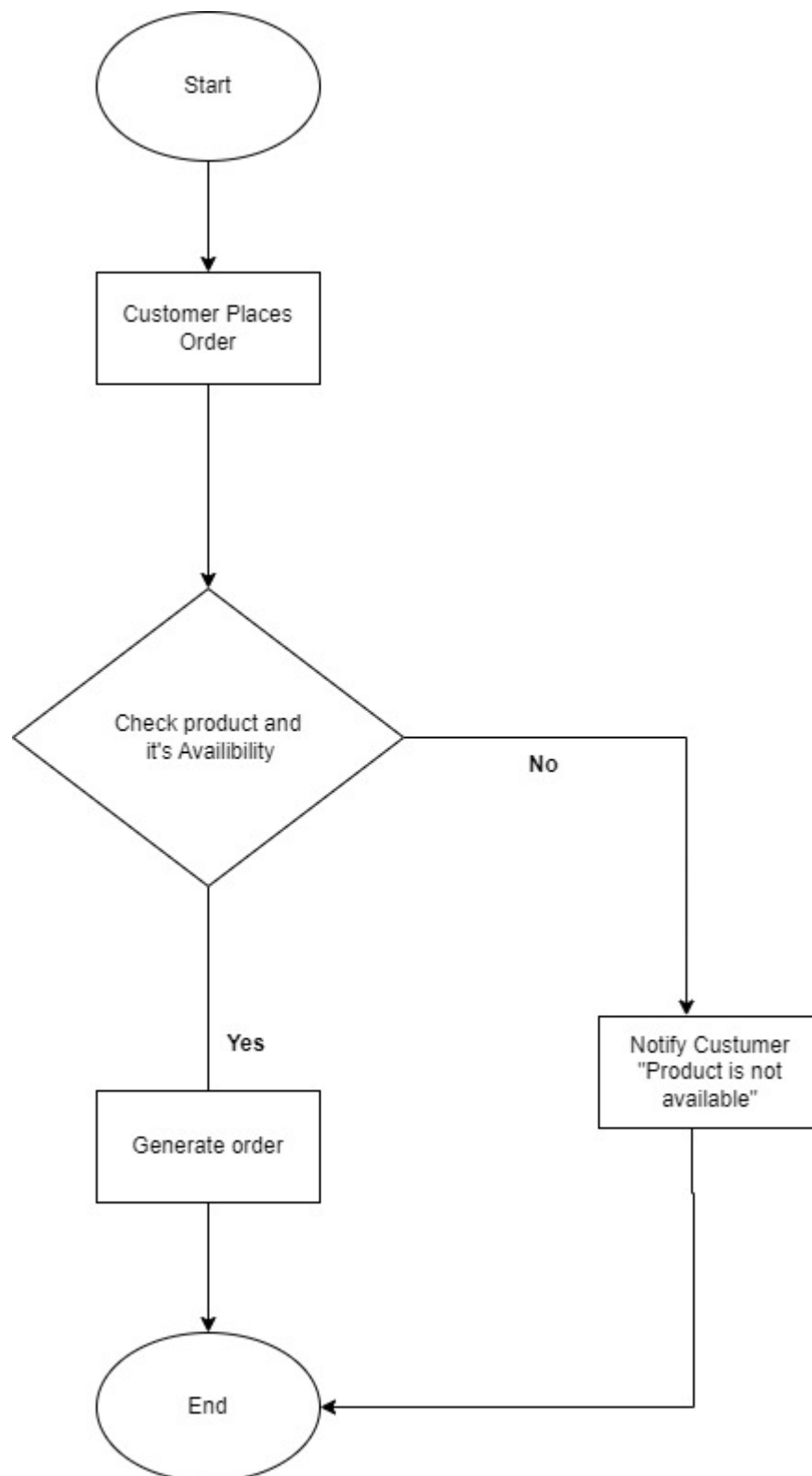
- **Module 1 - Customer on-boarding**



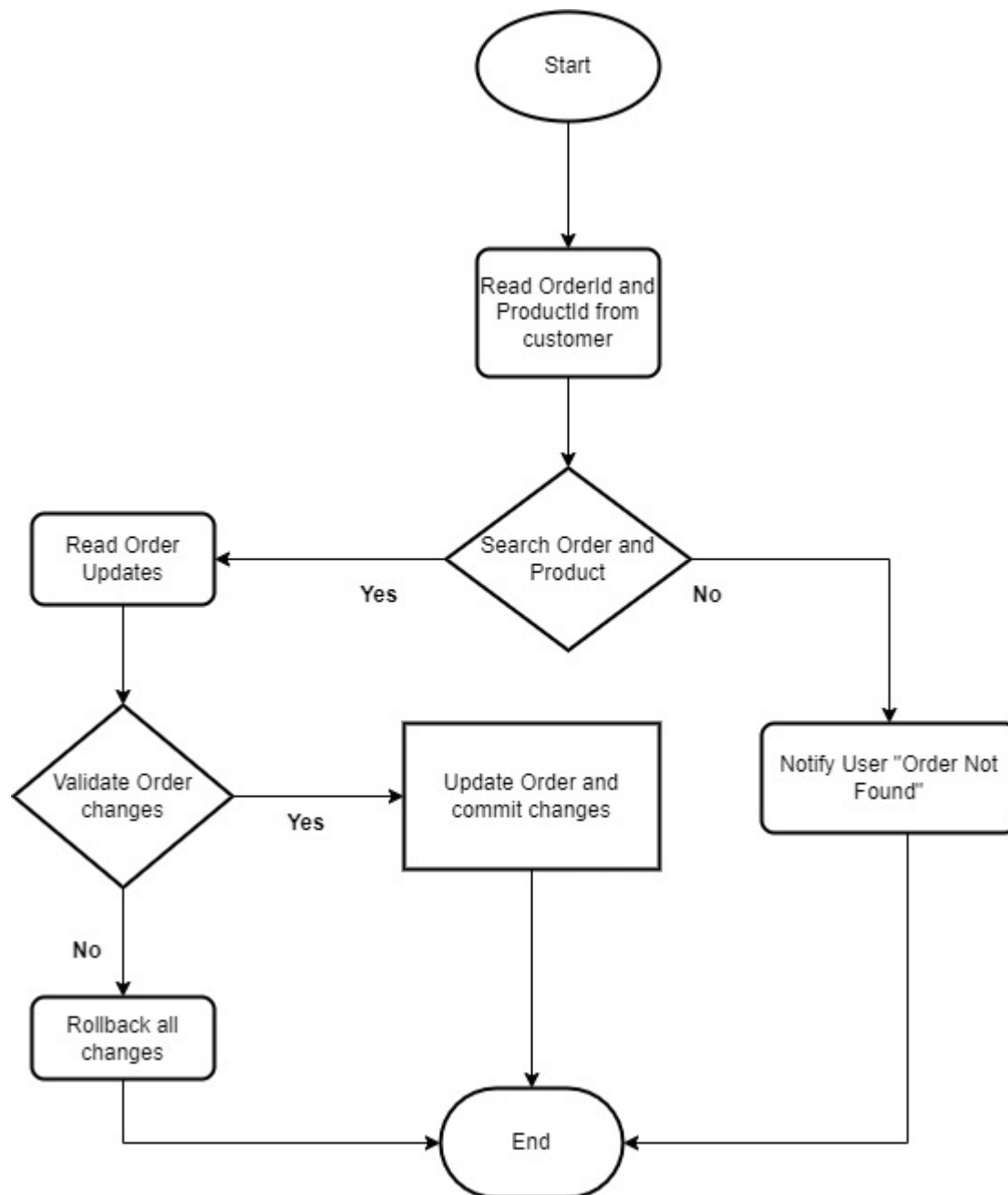
- **Module 2 - Supplier on-boarding**



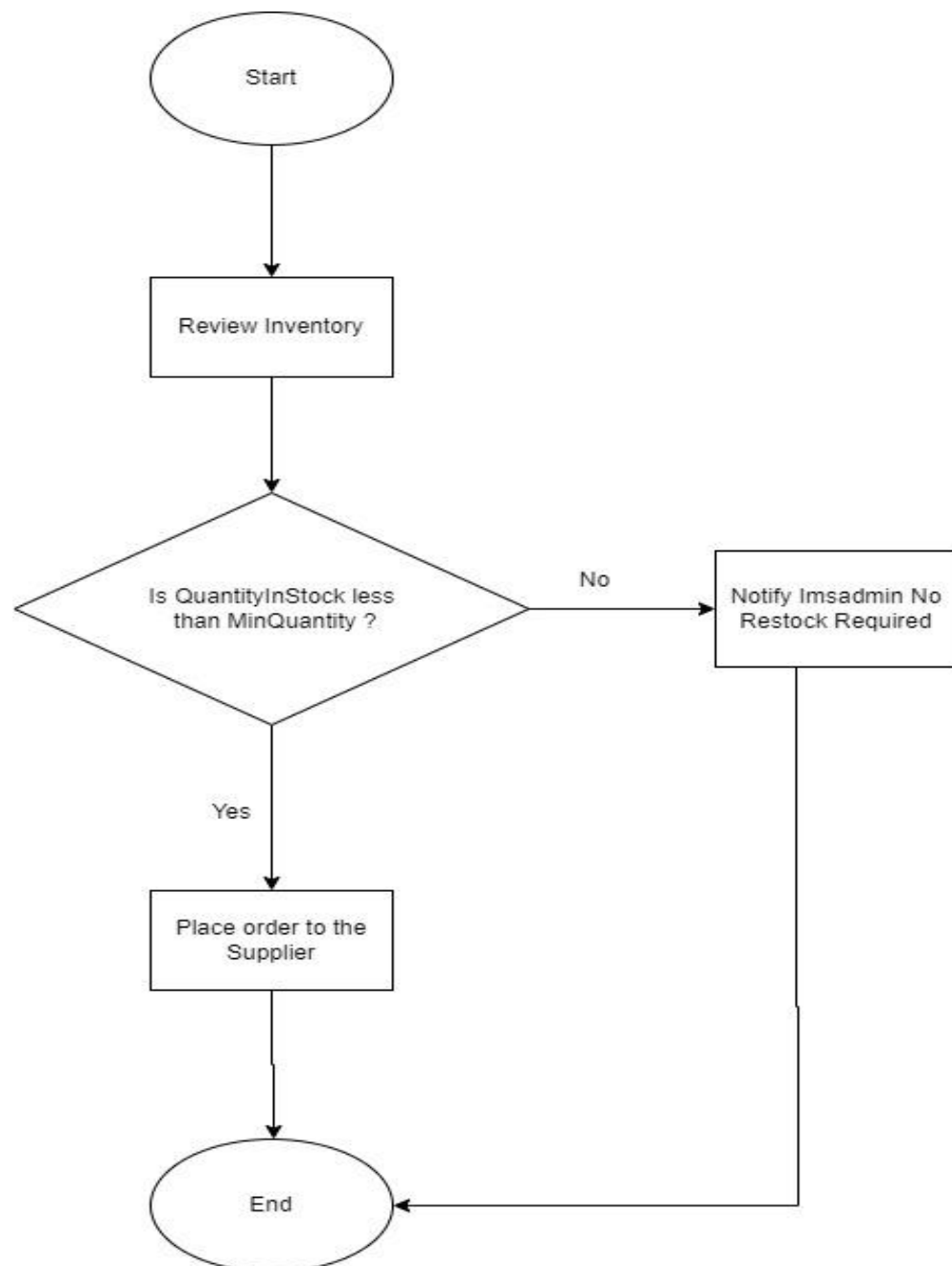
- **Module 3 - Placing an Order**



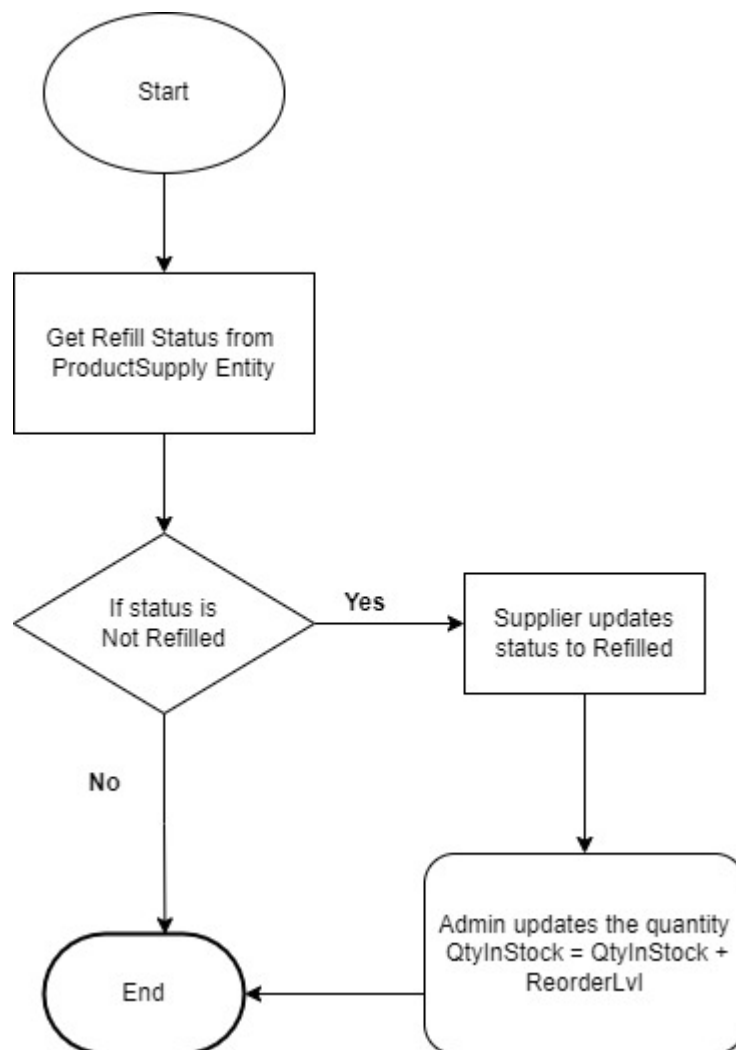
- **Module 4 - Updating an Order**



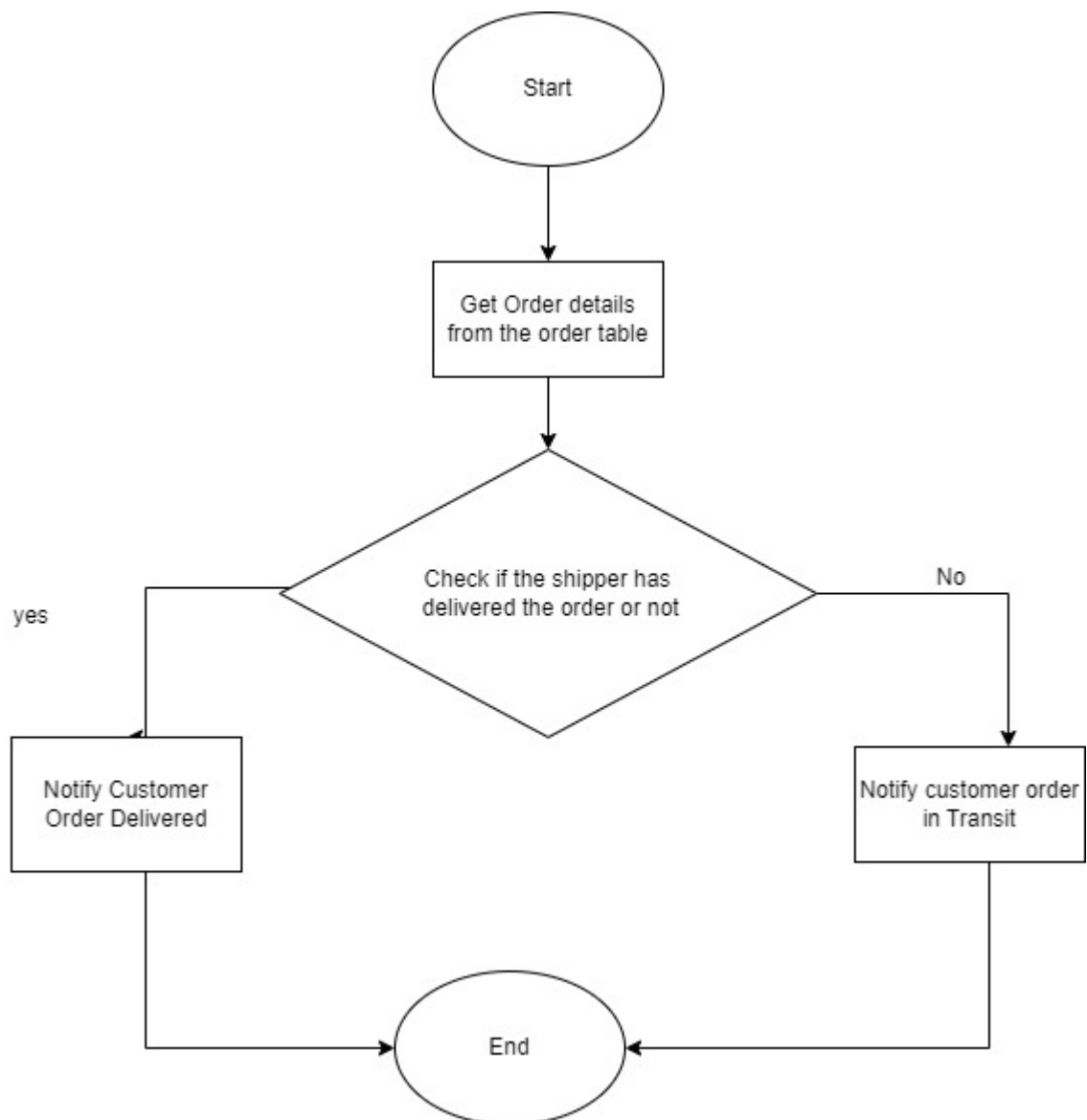
- **Module 5 - Re-ordering the inventory**



- **Module 6 – Refill the order**



- **Module 7 - Customer Delivery Status**



4) Security

Roles

User Name: ImsAdmin

Role: ImsRole

Permission: SELECT, INSERT, UPDATE, DELETE, DROP, CREATE, ALTER

Tables: All Entities

User Name: Customer

Role: CustRole

Permission1: SELECT, INSERT, UPDATE

Tables: Customer, ProductOrder

Permission2: SELECT

Tables: Products, ProductDiscount

User Name: Supplier

Role: SuppRole

Permission1: SELECT, INSERT, UPDATE

Tables: Supplier

Permission2: SELECT, UPDATE

Tables: ProductSupply

User Name: LogisticAdmin

Role: LogRole

Permission: SELECT, UPDATE

Tables: Order
