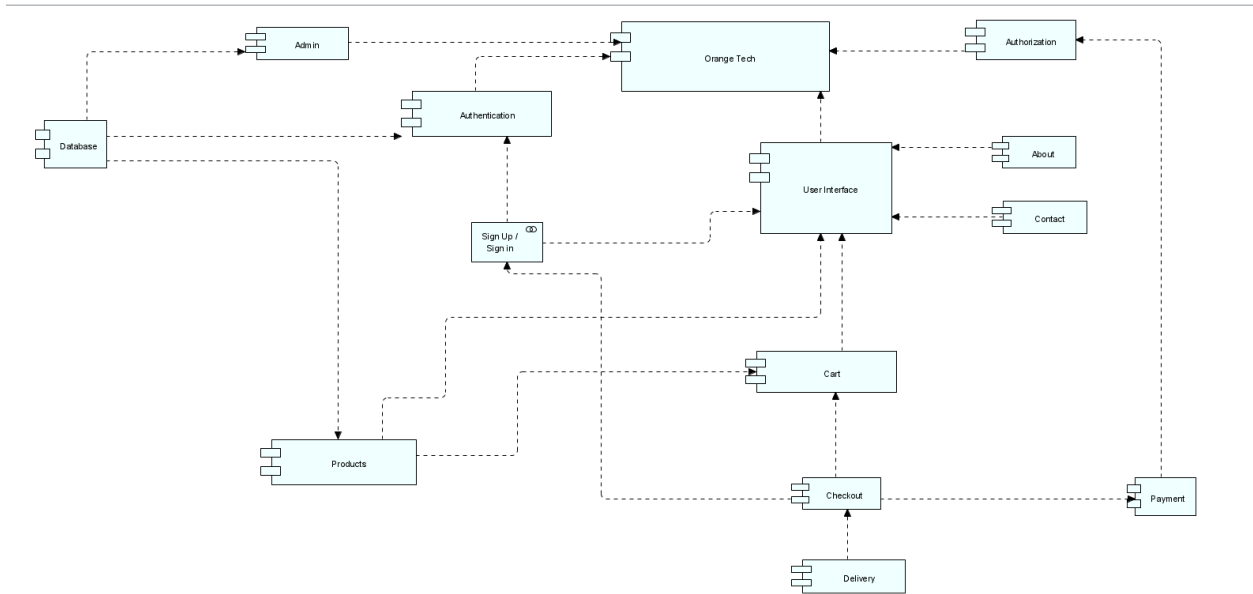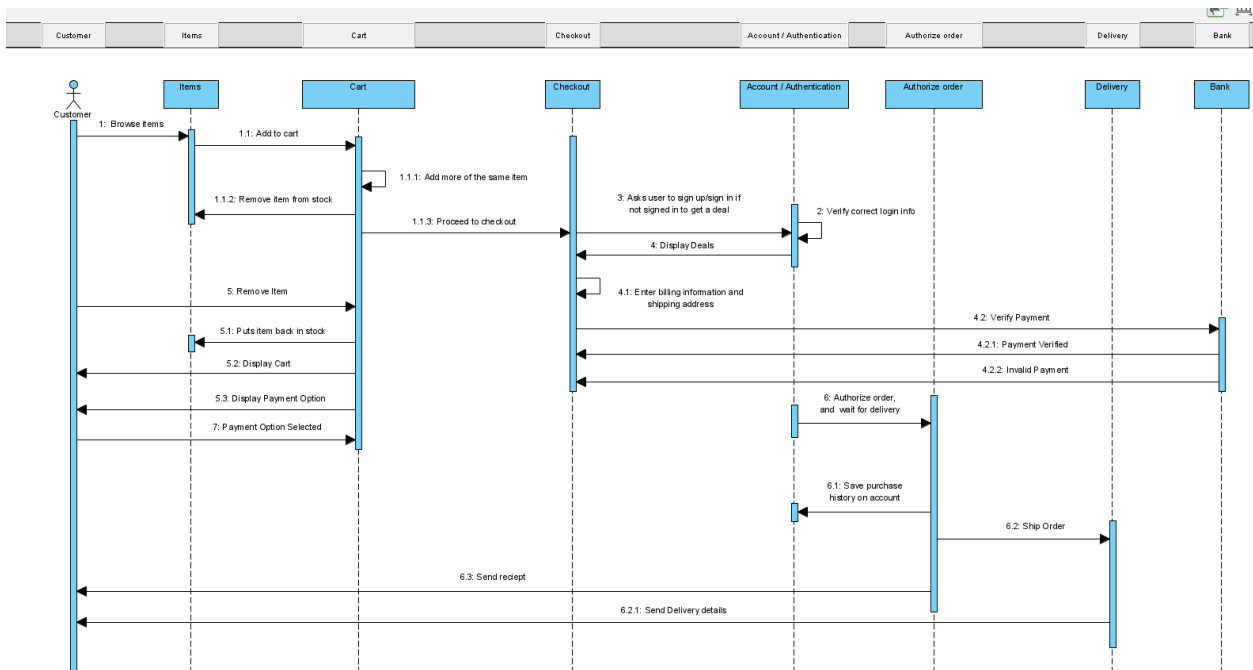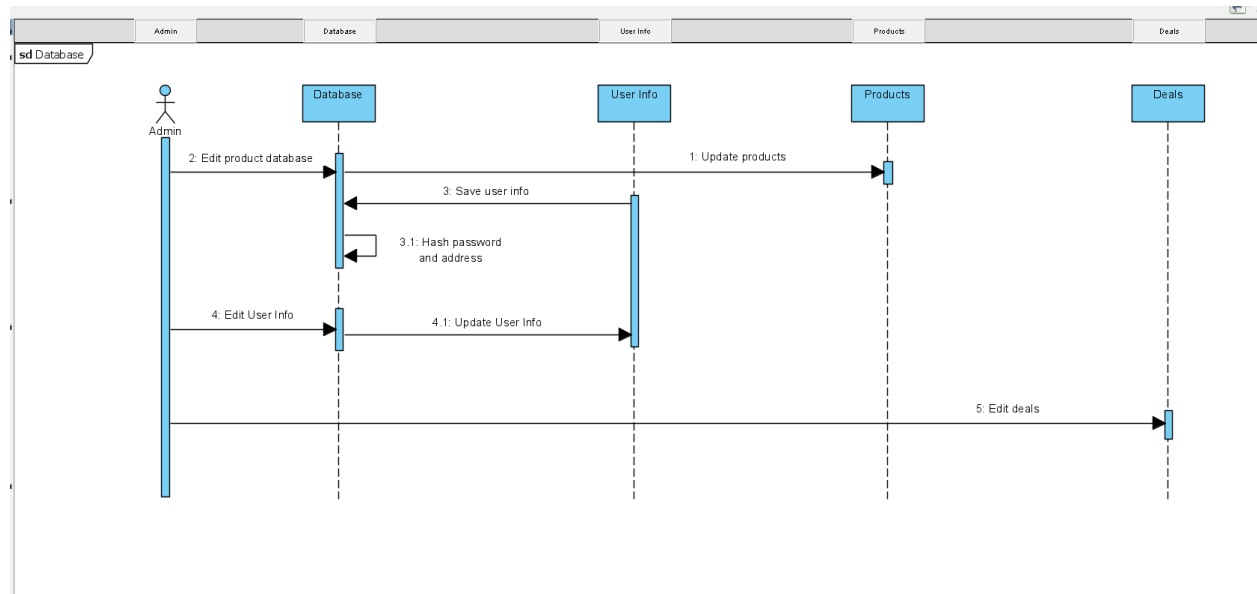# Models

Component Diagram:
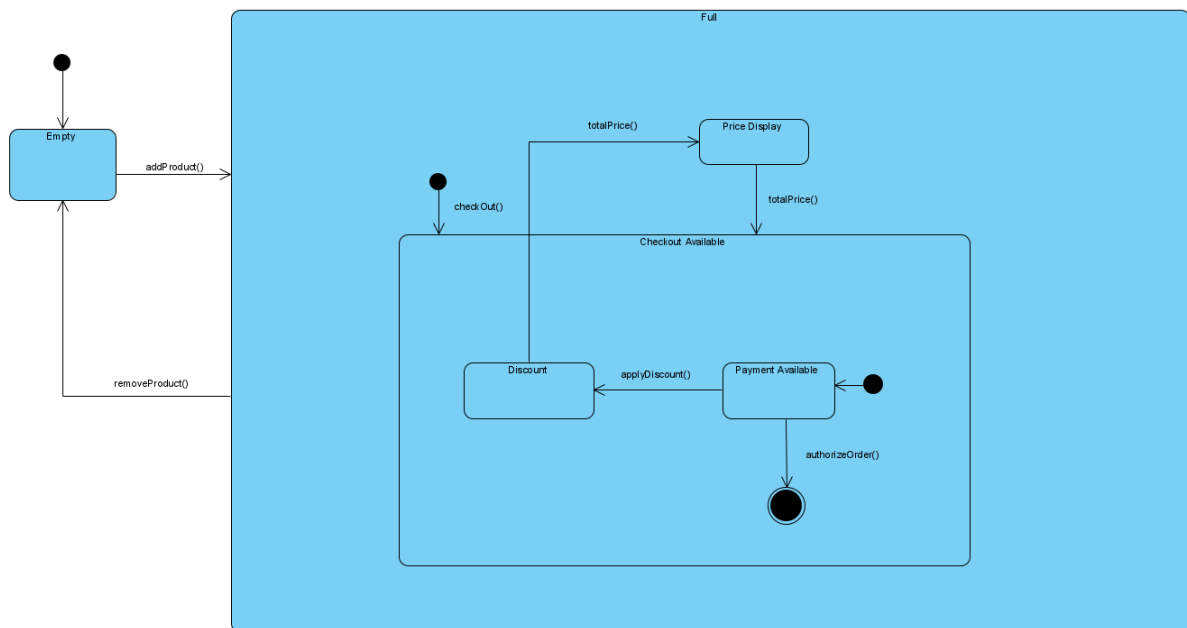

Front End Sequence Diagram:

Back End Database Sequence Diagram:

State diagram of Cart:

Class diagram:

Cart
- -counter : int
- +addProduct()
- +removeProduct()
- +checkOut()
- +applyDiscount()
- +totalPrice()

Contact
- -name : string
- -phone number : int
- -message : string
- +sendMessage()

Authentication
- -username : string
- -password : string
- -email : string
- -phone number : int
- +login()
- +signup()
- +changePassword()
- +changeEmail()
- +deleteAccount()
- +changeNumber()

Products
- -id : int
- -name : string
- -price : float
- -stock : int
- -description : string
- +updateStock()
- +updatePrice()
- +addNewProduct()
- +removeProduct()
- +updateDescription()

billing info

phone number

cart filled with products

dynamically change

purchase history for refund

saved on profile

<default package>