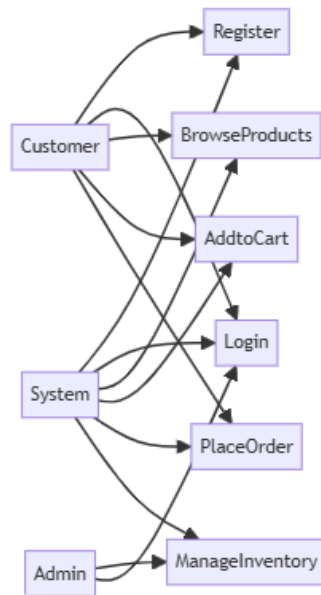


**Name: Muhammad Zeeshan**

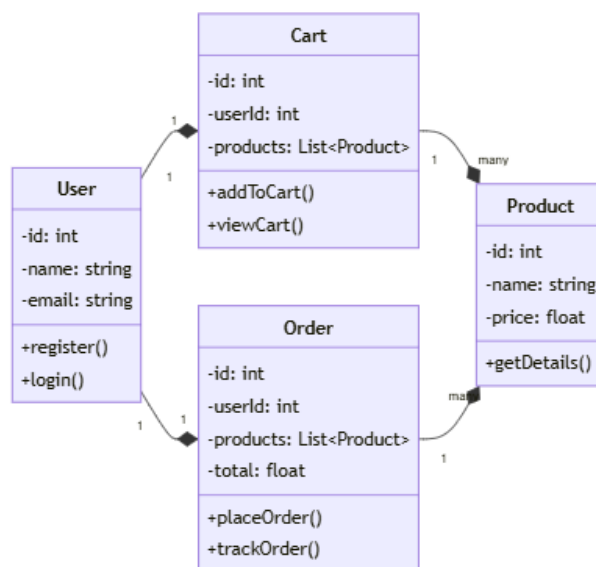
**Sap ID: 56038**

**Answer:**

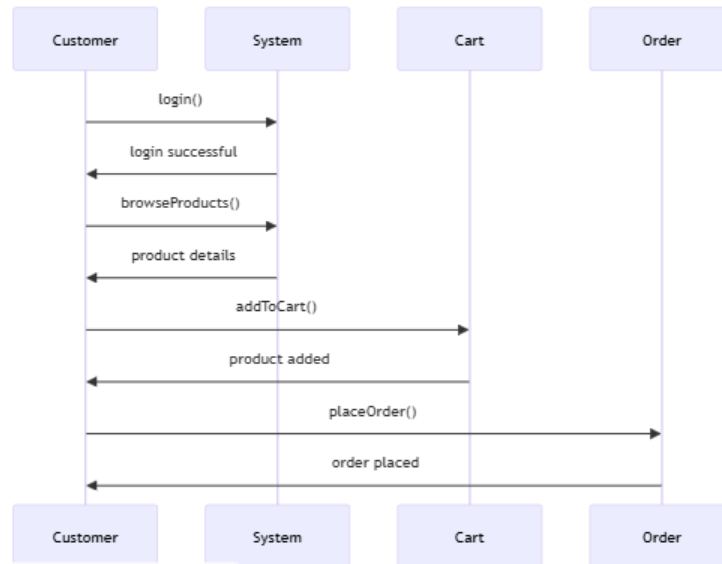
**1. Use Case Diagram:**



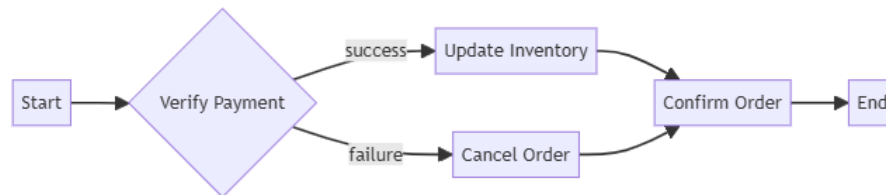
**2. Class Diagram:**



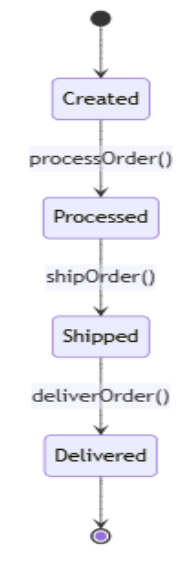
### 3. Sequence Diagram:



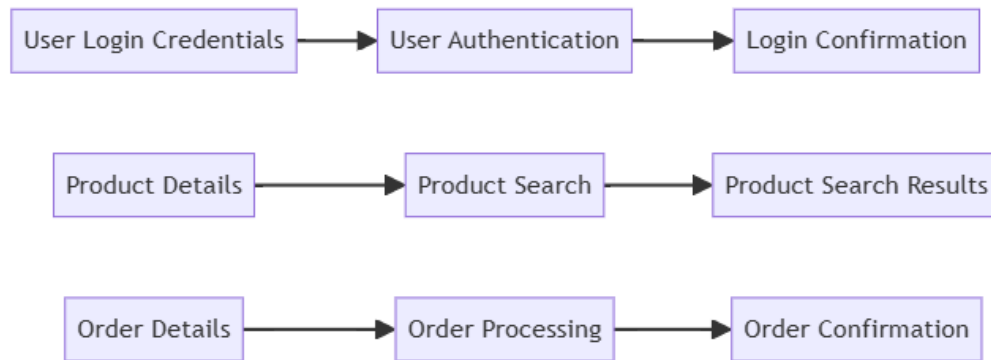
### 4. Activity Diagram:



### 5. State Transition Diagram:



## 6. DFD(Data Flow Diagram):



## 7. Critical Thinking:

### Challenges in Transitioning from Low-Fidelity to High-Fidelity Prototypes

1. **Design Complexity:** High-fidelity prototypes require more detailed design elements, which can be time-consuming to create.
2. **User Expectations:** Users may have higher expectations from high-fidelity prototypes, which can be challenging to meet.
3. **Technical Limitations:** High-fidelity prototypes may require more advanced technical skills and tools, which can be a limitation.

### Improvements for Additional Features

1. **Wish list Feature:**
  - Add a "Wish list" button to product details pages.
  - Create a wish list management system for users.
2. **Customer Feedback Feature:**
  - Add a "Leave Feedback" button to order confirmation pages.
  - Create a feedback management system for admins to review and respond to customer feedback.