



**Dhirubhai Ambani Institute of Information and  
Communication Technology**

**IT314 Software Engineering  
Course Project  
Renting System**



**Design Document**

**Assigned By: Prof. Saurabh Tiwari**

**Prepared By:  
Group 06**

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## Group Members

Name	Student ID
Utkarsh Asari	201801185
Rahul Chauhan	201801209
Nilay Mendpara	201801124
Mihir Doshi	201801152
Parth Santoki	201801257
Ritika Lakdawala	201801226
Prit Patel	201801261
Dishant Goti	201801449
Rishi Shivani	201801073
Dave Prayush	201801021

Actors: Buyer, Seller

```

    usecaseDiagram
        actor Buyer
        actor NotRegistered as Not Registered
        actor Registered as Registered

        NotRegistered --> Register
        NotRegistered --> ViewProduct
        Registered --> ViewProduct
        Registered --> BuyProduct as Buy a Product on rent
        Registered --> SignIn as Sign IN

        Search -.->|<<Extends>>| ViewProduct
        SelectByCategory -.->|<<Extends>>| ViewProduct
        AddToWishlist -.->|<<Extends>>| ViewProduct
        RequestSellerDetails -.->|<<Extends>>| ViewProduct

        AddToWishlist -.->|<<include>>| SignIn
        RequestSellerDetails -.->|<<include>>| SignIn

        BuyProduct -.->|<<include>>| ViewProduct
        BuyProduct -.->|<<include>>| SignIn
        BuyProduct -.->|<<include>>| Checkout
    
```

The diagram illustrates the interactions between a Buyer and the system. The Buyer is divided into two roles: Not Registered and Registered. The Not Registered role can Register or View Product. The Registered role can View Product, Buy a Product on rent, or Sign IN. The View Product use case is extended by Search, Select by Category, Add to Wishlist, and Request Seller details. The Add to Wishlist and Request Seller details use cases include the Sign IN use case. The Buy a Product on rent use case includes the View Product, Sign IN, and Checkout use cases.

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## 1.2 Use Case Model for Seller

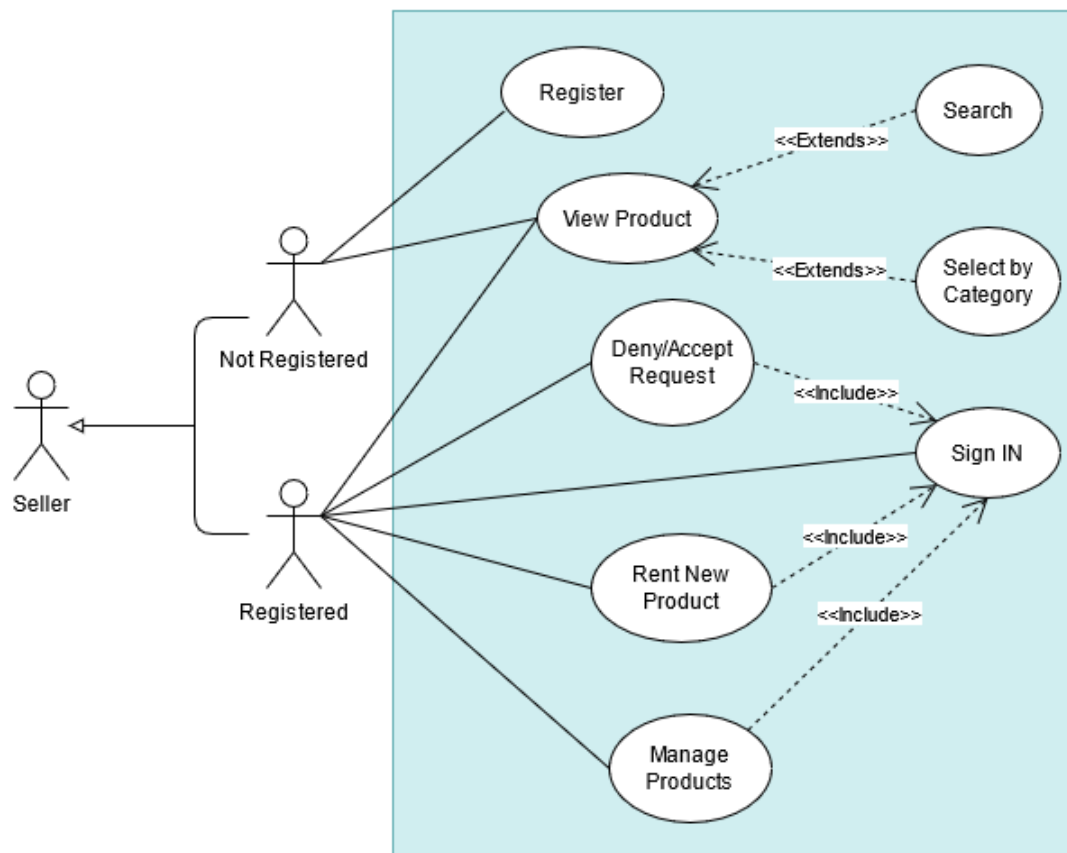


Figure 2: Use Case Diagram for Seller

## 2 | Activity Diagram

### 2.1 Activity Diagram for Buyer

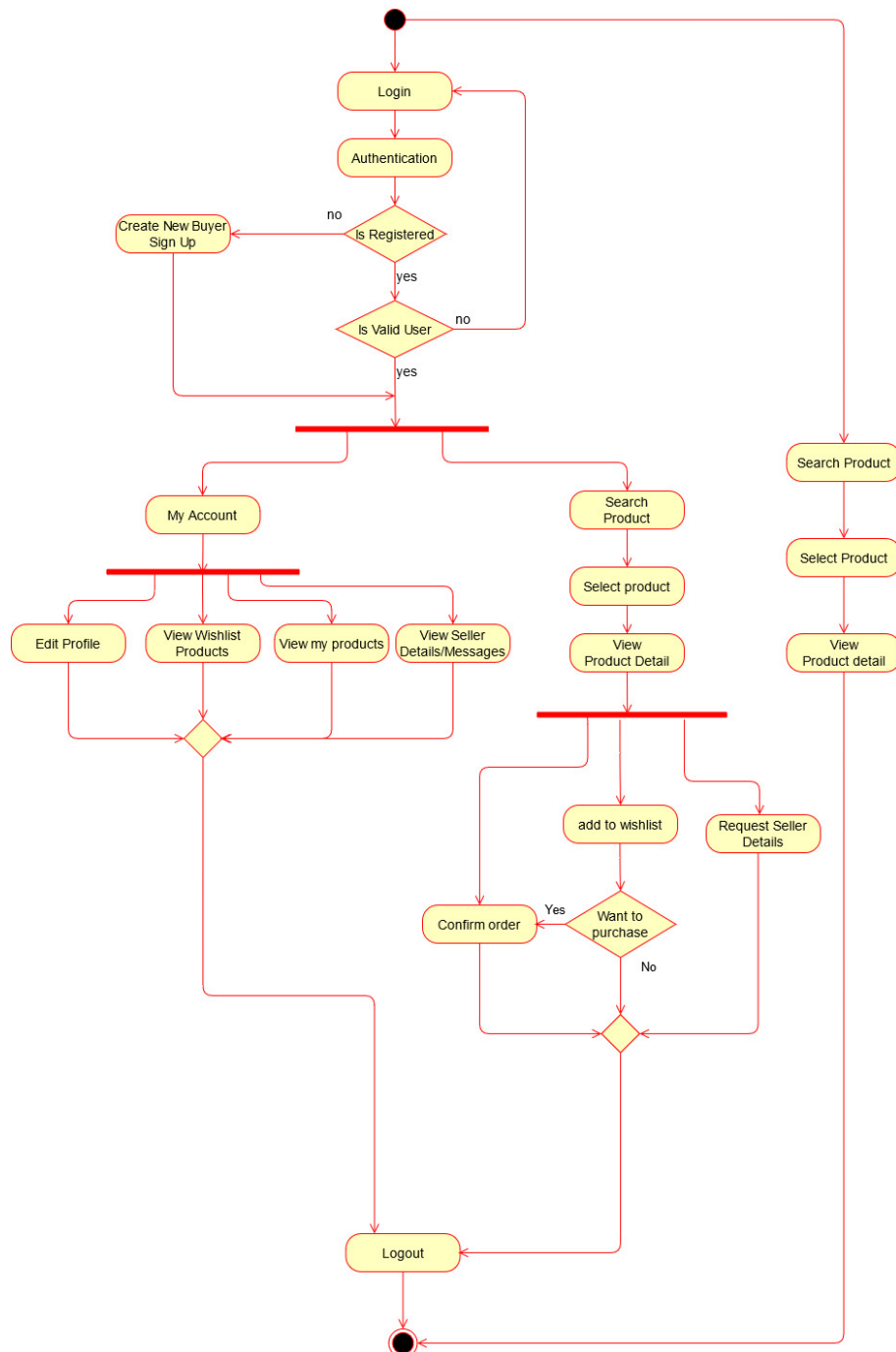


Figure 3: Activity Diagram for Buyer

## 2.2 Activity Diagram for Seller

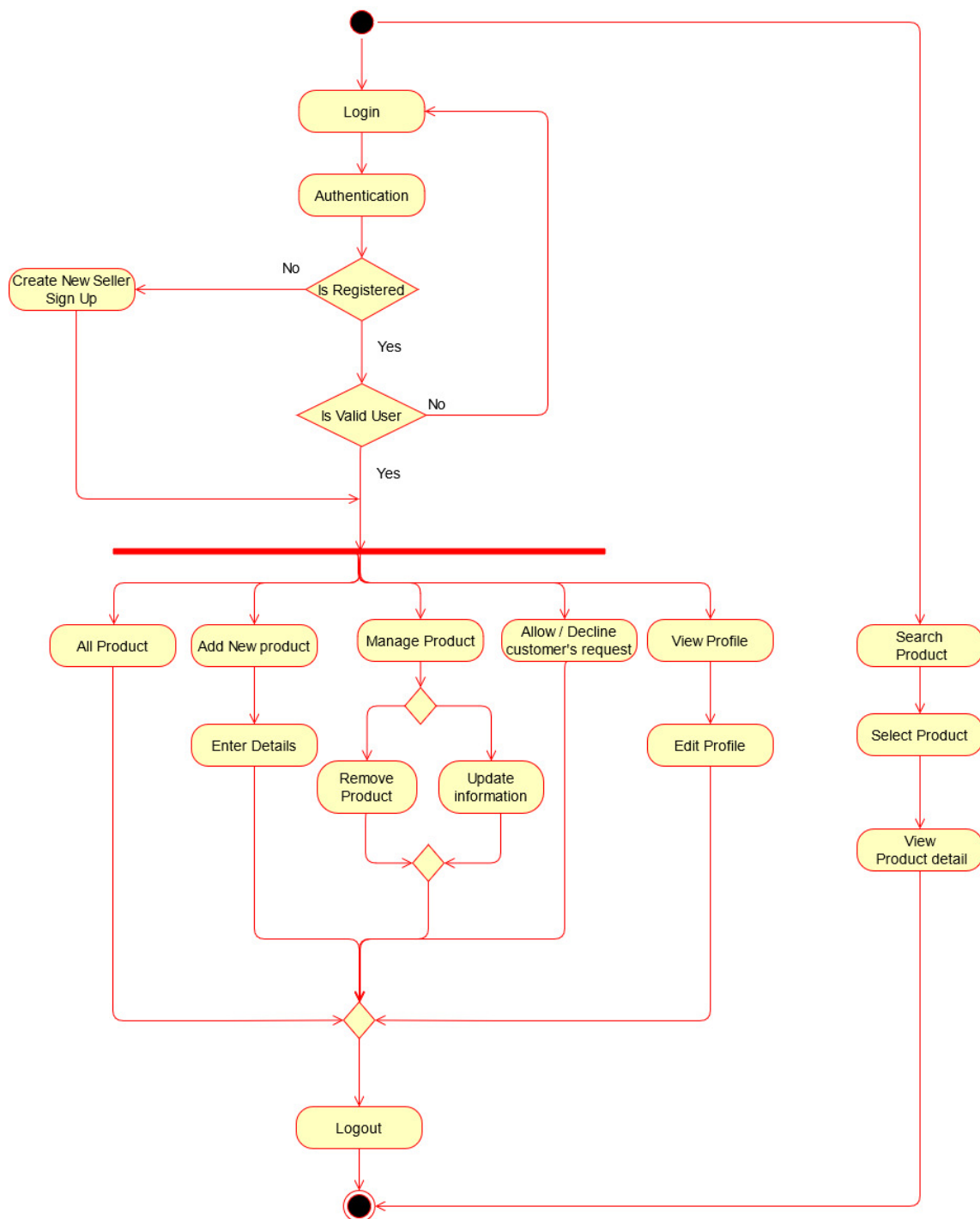


Figure 4: Activity Diagram for Seller

## 3 | Class Diagram

### 3.1 Class Diagram

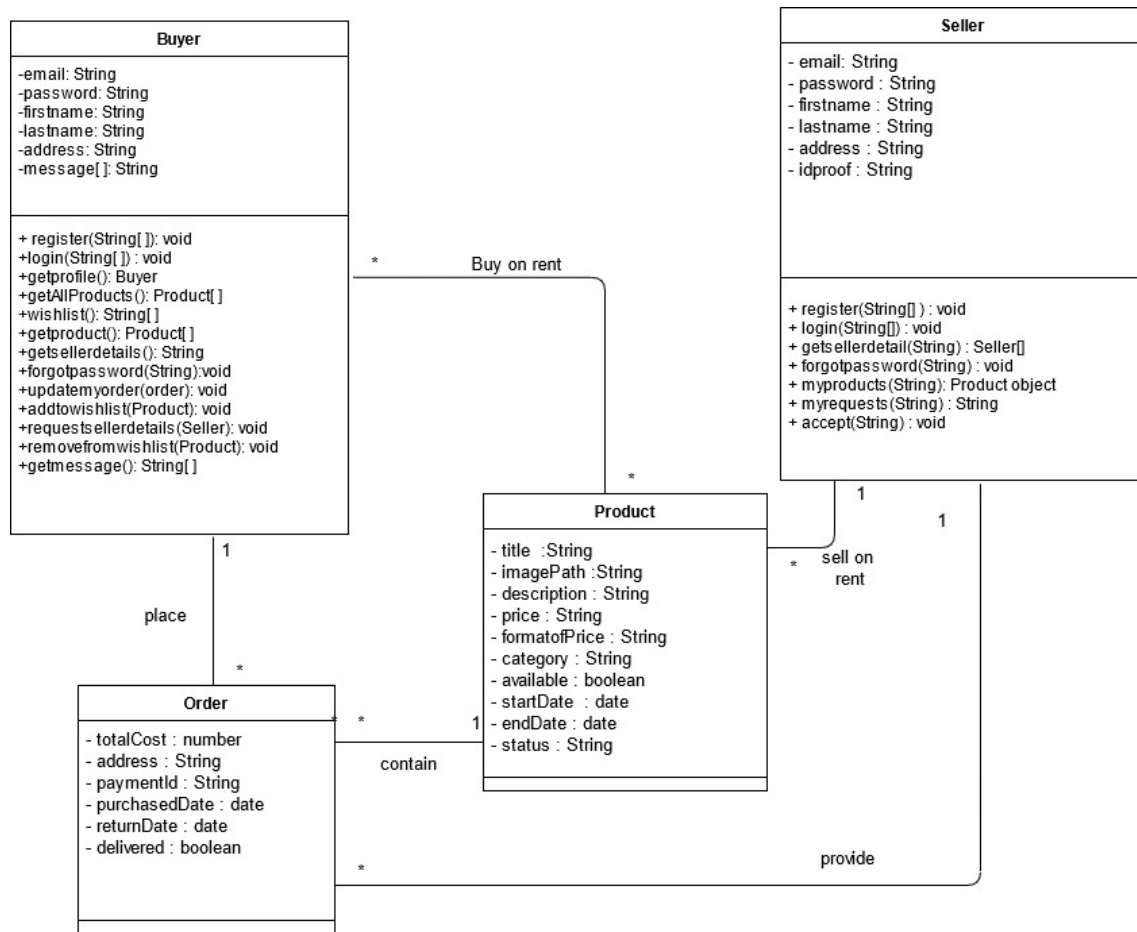


Figure 5: Class Diagram



## 4 | Sequence Diagram

### 4.1 Sequence Diagram for Buyer

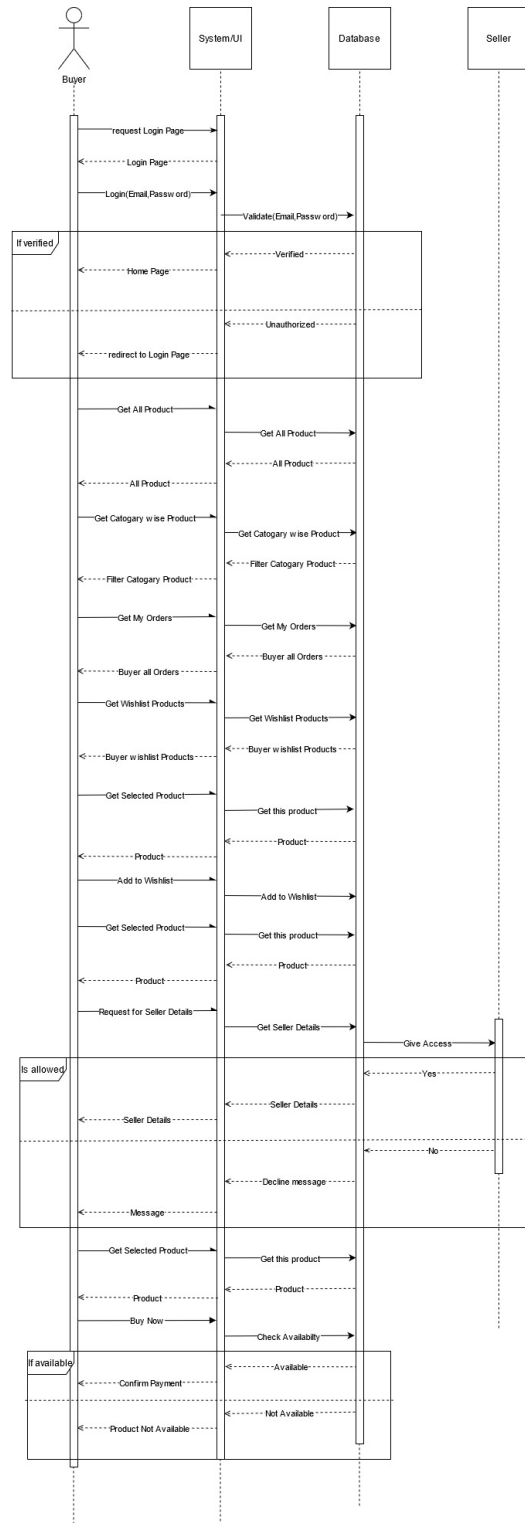


Figure 6: Sequence Diagram for Buyer

## 4.2 Sequence Diagram for Seller

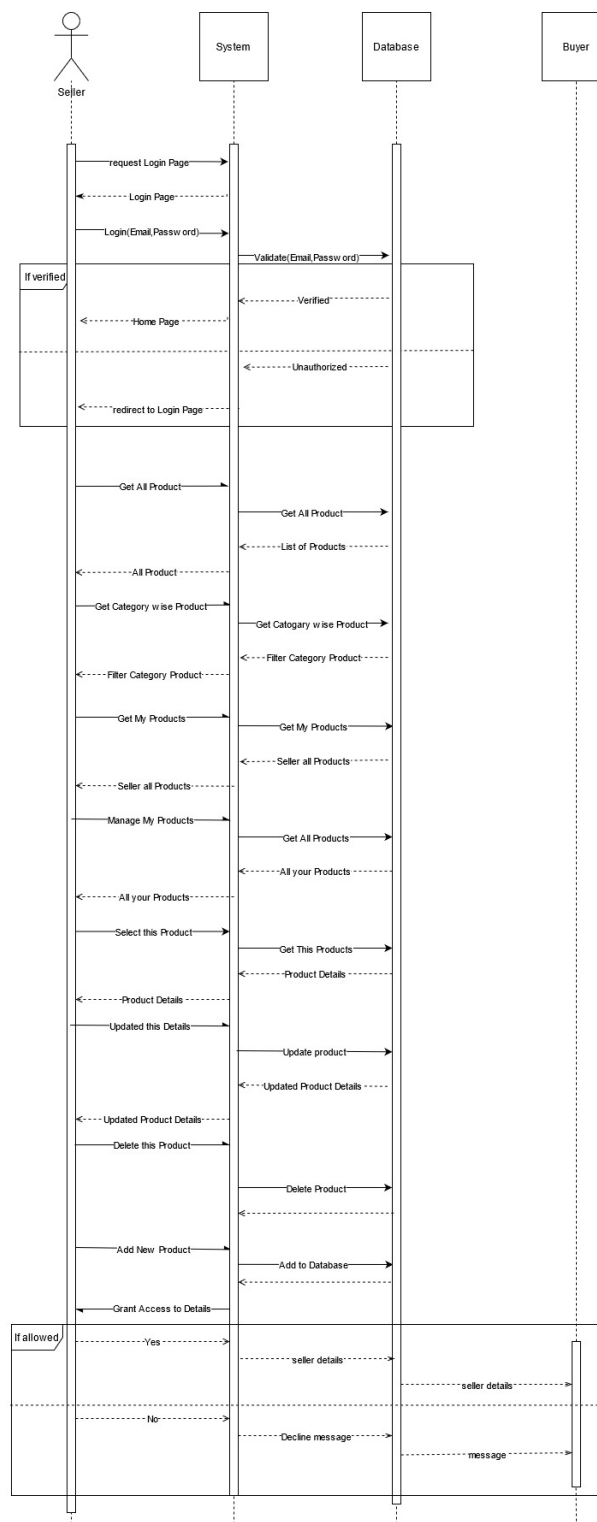


Figure 7: Sequence Diagram for Seller