eMart Project Design

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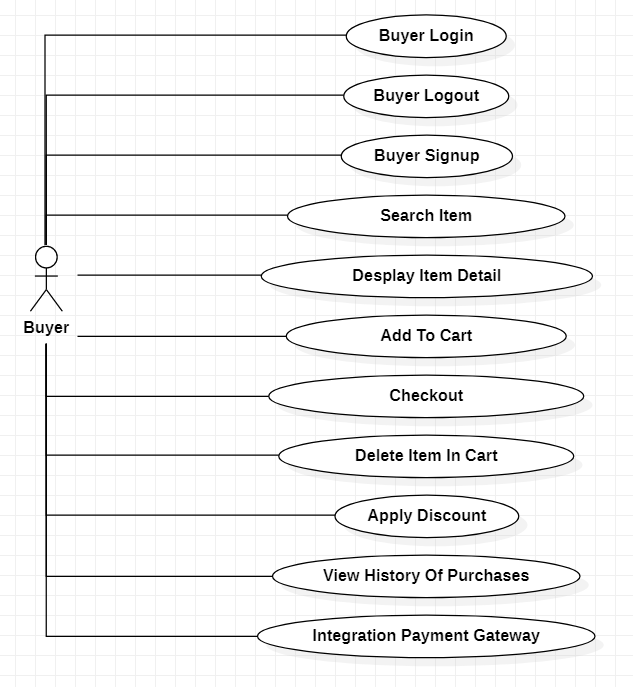
# 1. Introduction

eMart is an online eCommerce portal used to search and buy an item online. Buyer can add items to the cart, checkout and perform other operations. Admin can block/unblock Seller, Buyer, selling items.

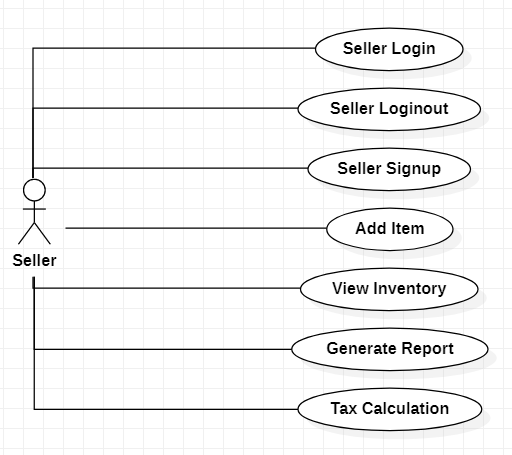
# 2. Main functions of the system

## 2.1 System Use Cases

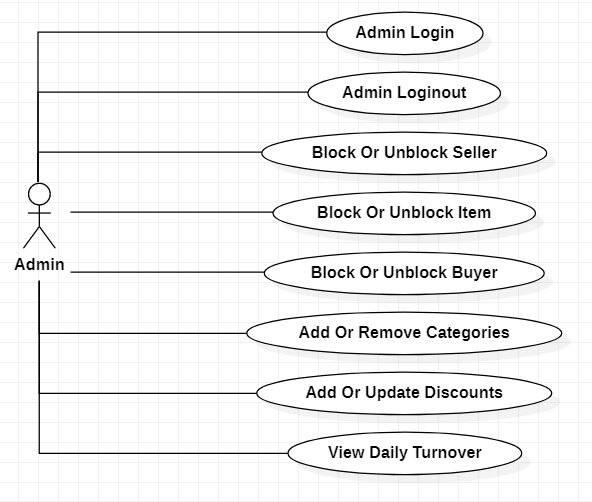
### 2.1.1 Buyer User Cases



### 2.1.2 Seller User Cases



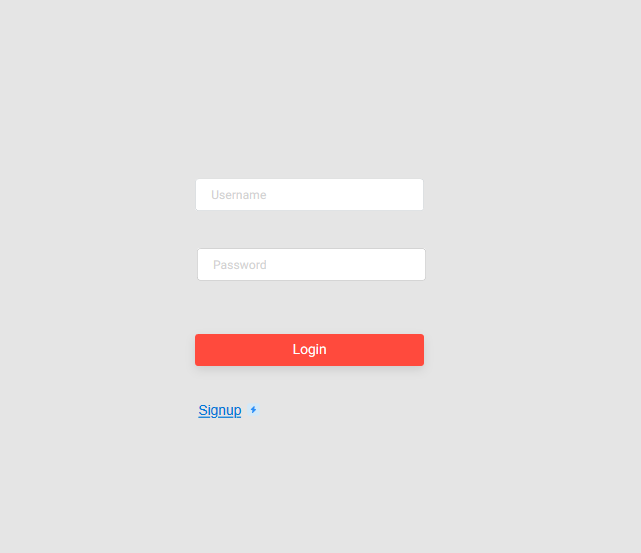
### 2.1.3 Admin User Cases



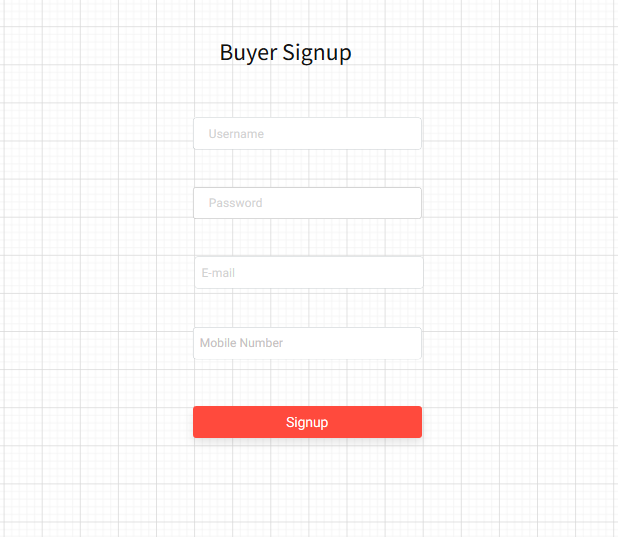
## 2.2 System UI Pages

### 2.2.1 Buyer UI Pages

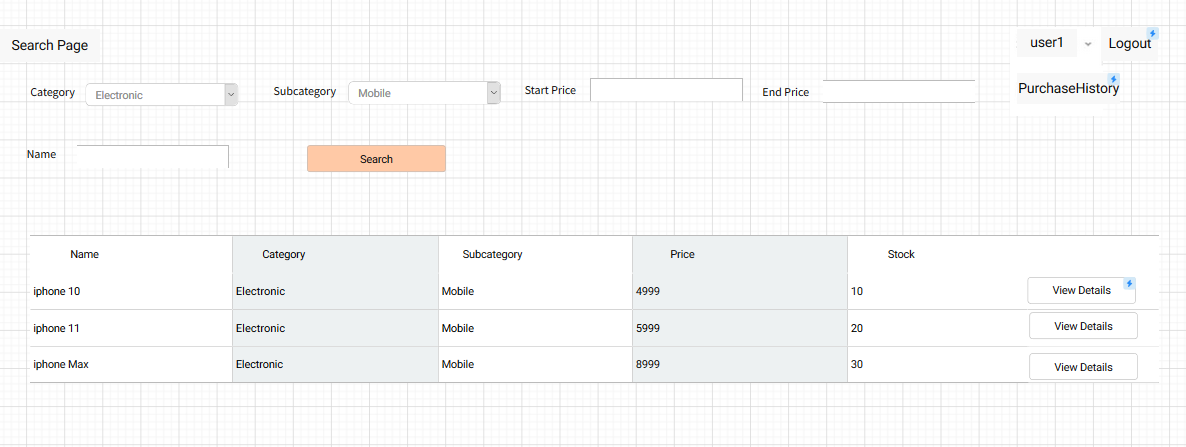
Login Page:



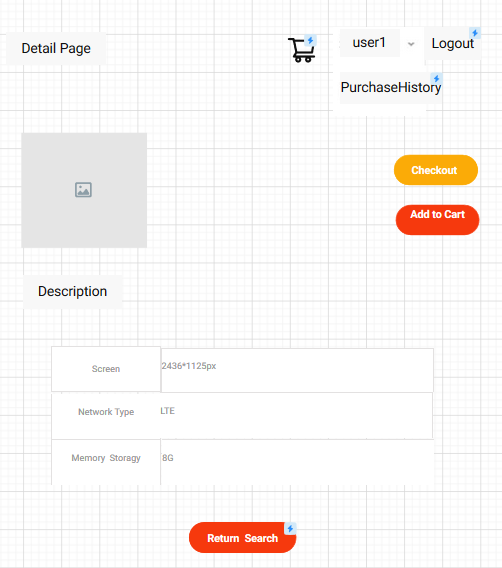
Signup Page:



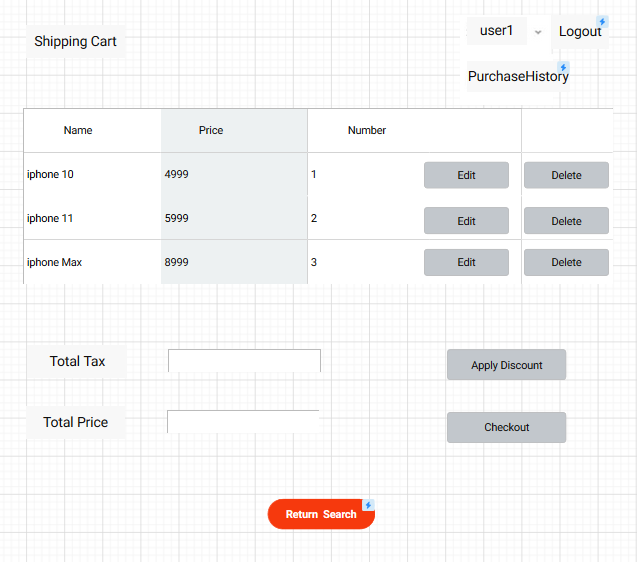
Search Page:



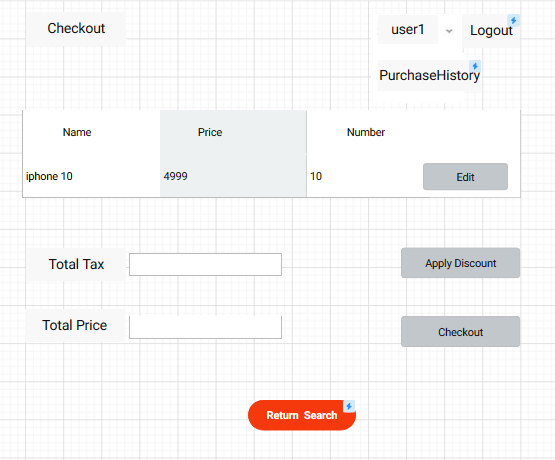
Item Detail Page:



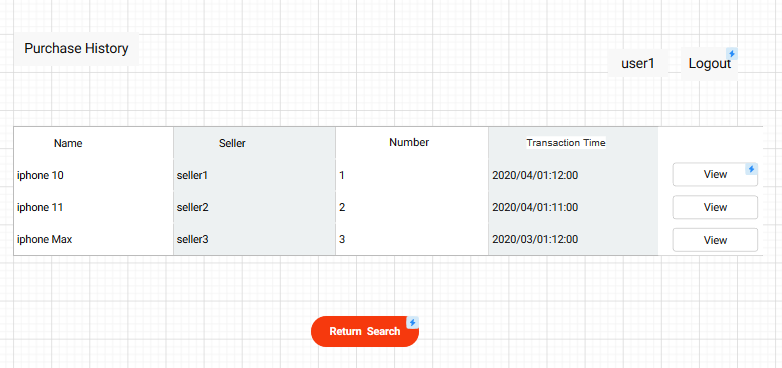
Shopping Cart Page:



Item Checkout Page:

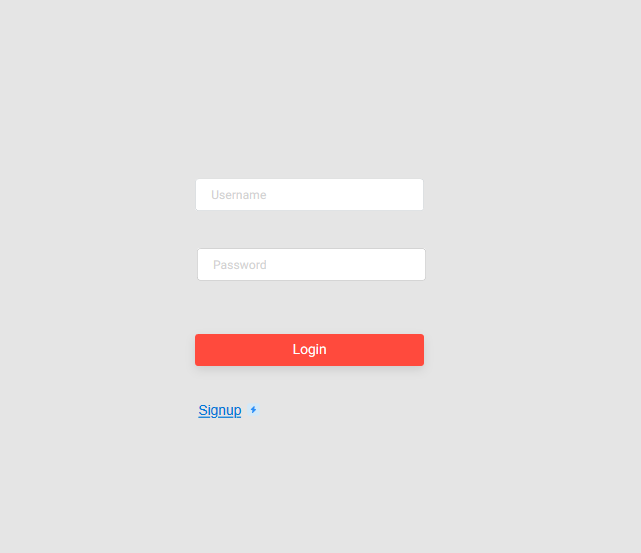


Purchase History:

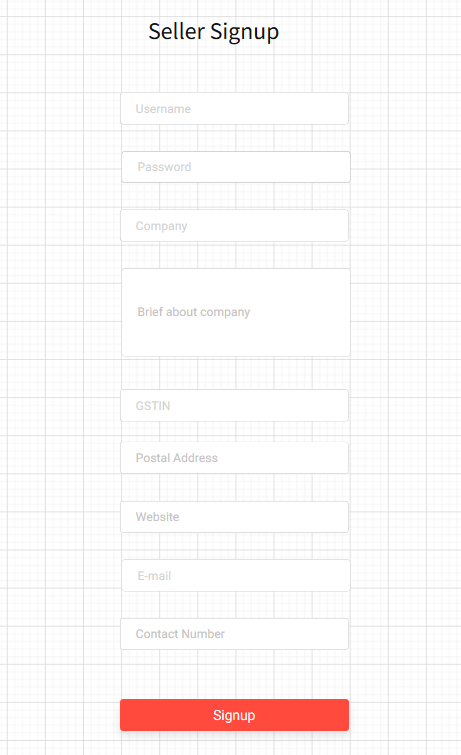


### 2.2.2 Seller UI Pages

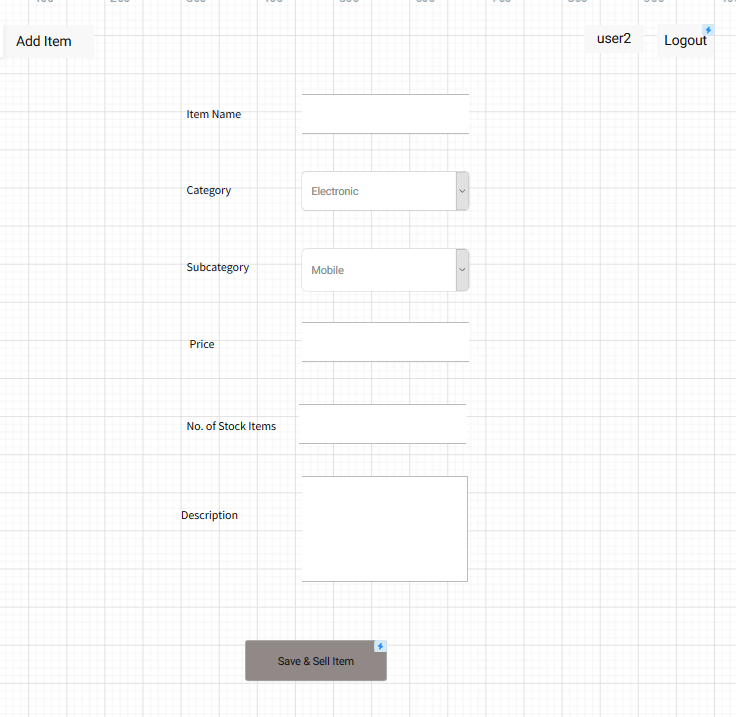
Login Page:



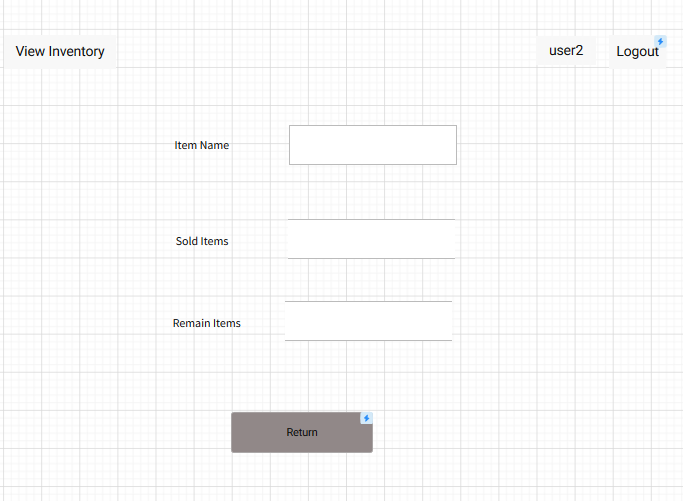
Signup Page:



Add Item:

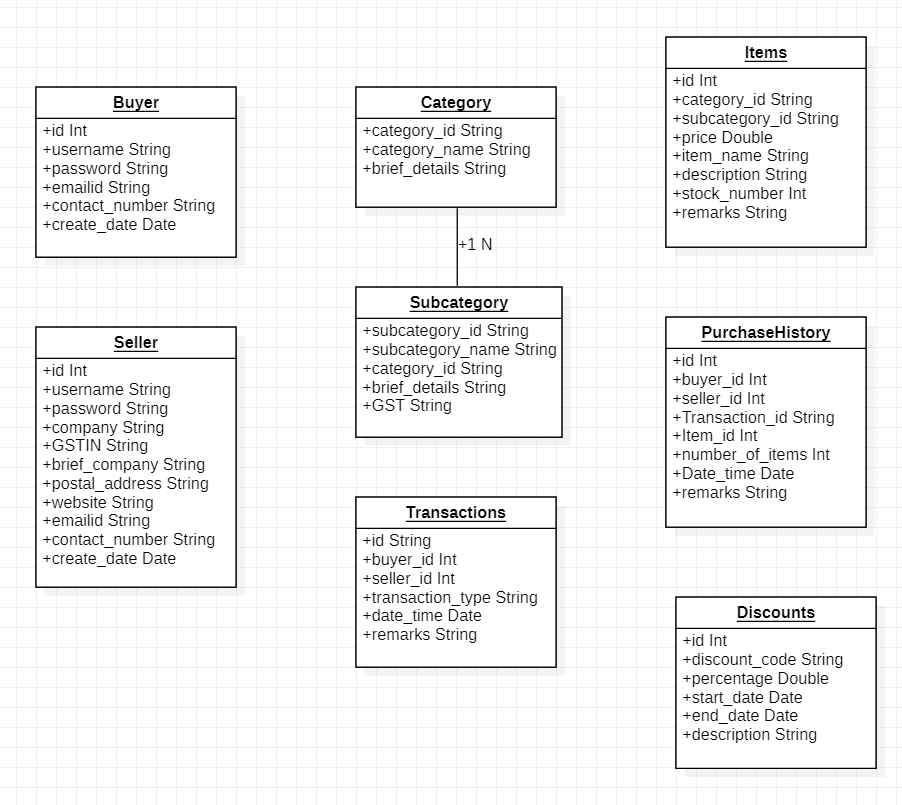


View Inventory:



### 2.2.3 Admin UI Pages(optional)

# 3. Data Model



# 4. Database table design

## 4.1 Buyer Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Type | Primary key | Not Null | Description |
| id | INT | PK | Not Null | AUTO\_INCREMENT |
| username | VARCHAR(30) |  | Not Null |  |
| password | VARCHAR(50) |  | Not Null |  |
| emailid | VARCHAR(50) |  |  |  |
| contact\_number | CHAR(13) |  | Not Null |  |
| create\_date | DATE |  |  |  |

## 4.2 Seller Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Type | Primary key | Not Null | Description |
| id | INT | PK | Not Null | AUTO\_INCREMENT |
| username | VARCHAR(30) |  | Not Null |  |
| password | VARCHAR(50) |  | Not Null |  |
| company | VARCHAR(30) |  | Not Null |  |
| GSTIN | VARCHAR(10) |  |  |  |
| brief\_company | VARCHAR(255) |  |  |  |
| postal\_address | VARCHAR(100) |  |  |  |
| website | VARCHAR(30) |  |  |  |
| emailid | VARCHAR(50) |  |  |  |
| contact\_number | CHAR(13) |  | Not Null |  |
| create\_date | DATE |  |  |  |

## 4.3 Category Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Type | Primary key | Not Null | Description |
| category\_id | VARCHAR(30) | PK | Not Null |  |
| category\_name | VARCHAR(30) |  | Not Null |  |
| brief\_details | VARCHAR(255) |  |  |  |

## 4.4 Subcategory Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Type | Primary key | Not Null | Description |
| subcategory\_id | VARCHAR(30) | PK | Not Null |  |
| subcategory\_name | VARCHAR(30) |  | Not Null |  |
| category\_id | VARCHAR(30) |  | Not Null |  |
| brief\_details | VARCHAR(250) |  |  |  |
| GSTIN | VARCHAR(10) |  |  |  |

## 4.5 Transactions Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Type | Primary key | Not Null | Description |
| id | VARCHAR(30) | PK | Not Null |  |
| buyer\_id | INT |  | Not Null |  |
| seller\_id | INT |  | Not Null |  |
| transaction\_type | VARCHAR(10) |  |  |  |
| date\_time | DATE |  |  |  |
| remarks | VARCHAR(50) |  |  |  |

## 4.6 Items Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Type | Primary key | Not Null | Description |
| id | INT | PK | Not Null |  |
| category\_id | VARCHAR(30) |  | Not Null |  |
| subcategory\_id | VARCHAR(30) |  | Not Null |  |
| price | DECIMAL(10,2) |  | Not Null |  |
| item\_name | VARCHAR(30) |  | Not Null |  |
| description | VARCHAR(50) |  |  |  |
| stock\_number | INT |  |  |  |
| remarks | VARCHAR(50) |  |  |  |

## 4.7 PurchaseHistory Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Type | Primary key | Not Null | Description |
| id | INT | PK | Not Null |  |
| buyer\_id | INT |  | Not Null |  |
| seller\_id | INT |  | Not Null |  |
| Transaction\_id | VARCHAR(30) |  | Not Null |  |
| Item\_id | INT |  | Not Null |  |
| number\_of\_items | INT |  |  |  |
| Date\_time | DATE |  |  |  |
| remarks | VARCHAR(50) |  |  |  |

## 4.8 Discounts Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Type | Primary key | Not Null | Description |
| id | INT | PK | Not Null |  |
| discount\_code | VARCHAR(50) |  | Not Null |  |
| percentage | DECIMAL(2,0) |  | Not Null |  |
| start\_date | DATE |  | Not Null |  |
| end\_date | DATE |  | Not Null |  |
| description | VARCHAR(255) |  |  |  |