# SYSTEM MODELING

## 4.1 Database dictionary

1. **Table name:** User_registration
   **Primary key:** user_id

**[Table 1: User_registration]**

| SR. NO | FIELDNAME | DATATYPE(SIZE) | CONSTRAINT | DESCRIPTION |
|--------|-----------|----------------|------------|-------------|
| 1 | id | Int(10) | Primary key | User's id |
| 2 | user_name | Varchar(20) | Not null | User's First name |
| 3 | email_id | Varchar(30) | Unique | User's email id |
| 4 | password | Varchar(20) | Not null | User's password |
| 5 | confirm_password | Varchar(20) | Not null | User's password |
| 6 | phone_number | BigInt(12) | Not null | User's number |
| 7 | area | Varchar(20) | Not null | User's area |
| 8 | address | Varchar(150) | Not null | User's address |
| 9 | pincode | Int(6) | Not null | User's pincode |
| 10 | user_gender | Varchar(20) | Not null | User's gender |

**2. Table name:** Product
   **Primary key:** product_id

**[Table 2: Product]**

| SR.NO | FIELDNAME | DATATYPE(SIZE) | CONSTRAINT | DESCRIPTION |
|-------|-----------|----------------|------------|-------------|
| 1 | id | Int(10) | Primary key | Product id |
| 2 | product_name | Varchar(50) | Not null | Product name |
| 3 | product_desc | Varchar(250) | Not null | Product description |
| 4 | product_img1 | Varchar(40) | Not null | Product image 1 |
| 5 | product_img2 | Varchar(40) | Not null | Product image 2 |
| 6 | product_price | Int(6) | Not null | Product price |
| 7 | product_stock | Int(4) | Not null | Product's stock |
| 8 | category_id | Int(10) | Foreign key | Category id |
| 9 | sub_category_id | Int(6) | Foreign key | Product's subcategory |
| 10 | featured_id | TinyInt(2) | Default 0 | Product featured |

**3. Table name:** Category
   **Primary key:** category_id

**[Table 3: Category]**

| SR.NO | FIELDNAME | DATATYPE(SIZE) | CONSTRAINT | DESCRIPTION |
|-------|-----------|----------------|------------|-------------|
| 1 | id | Int(10) | Primary key | Category id |
| 2 | category_name | Varchar(50) | Not null | Category name |
| 3 | category_desc | Varchar(100) | Not null | Category description |
| 4 | parent_id | Int(10) | Default 0 | Parent id |

**4. Table name:** Area
   **Primary key:** area_id

**[Table 4: Area]**

| SR.NO | FIELDNAME | DATATYPE(SIZE) | CONSTRAINT | DESCRIPTION |
|-------|-----------|----------------|------------|-------------|
| 1 | id | Int(10) | Primary key | Area |
| 2 | area_name | Varchar(30) | Not null | Area name |
| 3 | pincode | Int(6) | Not null | Area pincode |

**5. Table name:** Verification_master
   **Primary key:** id

**[Table 5: Verification_master]**

| SR. NO | FIELD NAME | DATATYPE(SIZE) | CONSTRAINT | DESCRIPTION |
|--------|------------|----------------|------------|-------------|
| 1 | id | Int(10) | Primary key | id |
| 2 | email_id | Varchar(30) | Foreign key | Email id |
| 3 | verification_code | Varchar(20) | Unique | Verification code |

**6. Table name:** Rating
   **Primary key:** rating_id

[Table 6: Rating]

| SR. NO | FIELD NAME | DATATYPE(SIZE) | CONSTRAINT | DESCRIPTION |
|---|---|---|---|---|
| 1 | Id | Int(10) | Primary key | Rating id |
| 2 | user_id | Int(10) | Foreign key | User's id |
| 3 | product_id | Int(10) | Foreign key | Product's id |
| 4 | rating | enum('1', '2', '3', '4', '5') | Not null | Rating |

**7. Table name:** Cart
   **Primary key:** cart _id

[Table 7: Cart]

| SR. NO | FIELD NAME | DATATYPE(SIZE) | CONSTRAINT | DESCRIPTION |
|---|---|---|---|---|
| 1 | id | Int(10) | Primary key | Cart id |
| 2 | user_id | Int(10) | Foreign key | User's id |
| 3 | product_id | Int(10) | Foreign key | Product's id |
| 4 | product_stock | Int(10) | Not null | Product's stock |
| 5 | product_quantity | Int(10) | Not null | Product's quantity |

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**8.  Table name:** Order
 **Primary key:** order_id

[Table 8: Order]

| SR.NO | FIELDNAME | DATATYPE(SIZE) | CONSTRAINT | DESCRIPTION |
|-------|-----------|----------------|------------|-------------|
| 1 | id | Int(10) | Primary key | Order id |
| 2 | user_id | Int(10) | Foreign key | User's id |
| 3 | product_id | Int(10) | Foreign key | Product's id |
| 4 | quantity | Int(6) | Not null | Quantity |
| 5 | order_date | Date | Not null | Order date |

**9.  Table name:** Billing
 **Primary key:** billing_id

[Table 9: Billing]

| SR.NO | FIELDNAME | DATATYPE(SIZE) | CONSTRAINT | DESCRIPTION |
|-------|-----------|----------------|------------|-------------|
| 1 | id | Int(10) | Primary key | Billing id |
| 2 | order_id | Int(10) | Foreign key | Order id |
| 3 | invoice_number | Int(10) | Unique | Invoice number |
| 4 | billing_date | Date | Not null | Billing date |

**10. Table name:** Delivery
   **Primary key:** delivery_id

**[Table 10: Delivery]**

| SR.NO | FIELDNAME | DATATYPE(SIZE) | CONSTRAINT | DESCRIPTION |
|-------|-----------|----------------|------------|-------------|
| 1 | id | Int(10) | Primary key | Delivery id |
| 2 | billing_id | Int(10) | Foreign key | Billing id |
| 3 | tracking_number | Varchar(10) | Unique | Tracking number |
| 4 | date_shipped | Date | Not null | Date Shipped |
| 5 | delivery_status | TinyInt(1) | Not null | Delivery status |
| 6 | delivery_details | Varchar(150) | Not null | Delivery details |