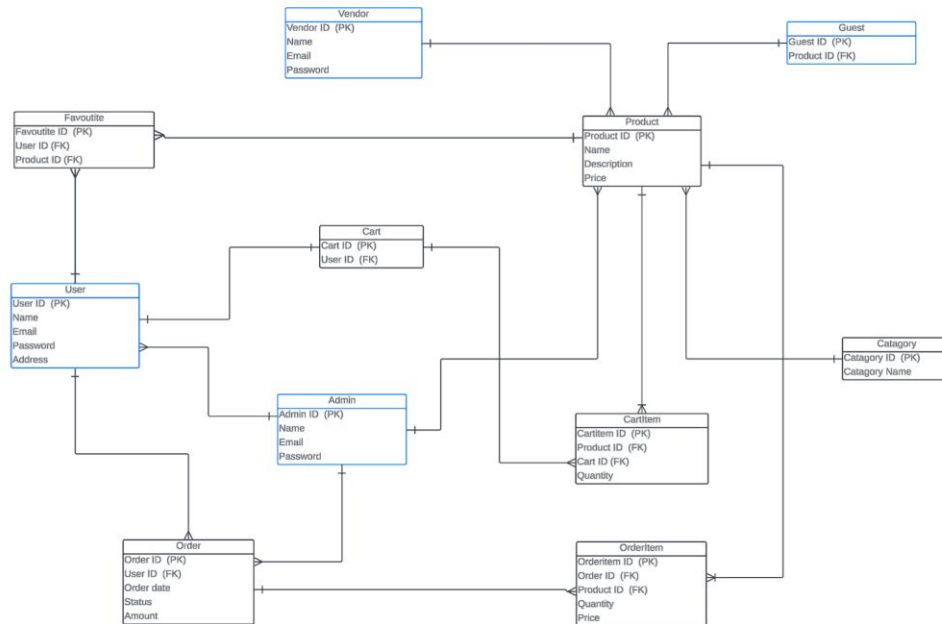


DELEVERABLE 2 – ENTITY RELATIONSHIP DIAGRAM (ERD)



ENTITIES AND ATTRIBUTES:

- **User:**
 - User ID (PK)
 - Name
 - Email
 - Password
 - Address
- **Vendor:**
 - Vendor ID (PK)
 - Name
 - Email
 - Password

- **Admin:**
 - Admin ID (PK)
 - Name
 - Email
 - Password
- **Guest:**
 - Guest ID (PK)
 - Product ID (FK)
- **Product:**
 - Product ID (PK)
 - Name
 - Description
 - Price
- **Category:**
 - Category ID (PK)
 - Category Name
- **Cart:**
 - Cart ID (PK)
 - User ID (FK)
- **CartItem:**
 - CartItem ID (PK)
 - Cart ID (FK)
 - Product ID (FK)
 - Quantity

- **Order:**

- Order ID (PK)
- User ID (FK)
- Order Date
- Status
- Amount

- **OrderItem:**

- OrderItem ID (PK)
- Order ID (FK)
- Product ID (FK)
- Quantity
- Price

- **Favourite:**

- Favourite ID (PK)
- User ID (FK)
- Product ID (FK)

RELATIONSHIPS

User - Order: One-to-Many, A User can place multiple Orders and each Order is linked to one User).

Order - OrderItem: One-to-Many, Each Order has multiple OrderItems each OrderItem belongs to one Order).

Product - OrderItem: One-to-Many, A Product can appear in many OrderItems; each OrderItem links to one Product.

User - Cart: One-to-One, Each User has one Cart and a Cart is linked to one User.

Cart - CartItem: One-to-Many, A Cart can have multiple CartItems and each CartItem belongs to one Cart).

Product - CartItem: One-to-Many, A Product can appear in many CartItems and each CartItem links to one Product.

Product - Category: Many-to-One, a Category can have many Products.

Vendor - Product: One-to-Many, A Vendor can add many Products; each Product is linked to one Vendor.

User - Favourite: One-to-Many, A User can favourite many Products; a Product can be favourited by many Users, typically managed by a junction table.

Favourite - Products: Many-to-One, A Product can be linked to many Favourite entries.