***ANUDIP FOUNDATION***

A Project Report on

**“ONLINE MOBILE MANAGEMENT SYSTEM”**

By

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**Introduction:**

The Online Mobile Management System is a Java-based application designed to manage mobile phone records efficiently. This system allows users to perform CRUD (Create, Read, Update, Delete) operations on mobile data, such as adding new mobile details, retrieving stored mobile records, updating existing mobile information, and deleting records when necessary. The application leverages Hibernate ORM (Object-Relational Mapping) for database interaction and SQL for data storage and retrieval, ensuring seamless and structured data management.

**Objective:**

The main objective of this project is to develop a robust and scalable system that provides an efficient way to store, manage, and retrieve mobile-related information. This system reduces manual data handling and enhances data integrity, accuracy, and accessibility.

**Entities:**

1. Address

2. Admin

3. Cart

4. Customer

5. Order

6. Mobile

7. User

8. Payment

**Attributes of Entities:**

1. **Address**

address\_id (int, Primary Key)

city (varchar(255))

country (varchar(255))

pincode (varchar(255))

state (varchar(255))

street\_no (varchar(255))

1. **Admin**

admin\_id (int, Primary Key)

email (varchar(255))

name (varchar(255))

mobile\_number (varchar(255))

password (varchar(255))

1. **Cart**

cart\_id (int, Primary Key)

customer\_id (int, Foreign Key)

1. **Customer**

customer\_id (int, Primary Key)

email (varchar(255))

name (varchar(255))

mobile\_number (varchar(255))

password (varchar(255))

address\_id (int, Foreign Key)

1. **Order**

order\_id (int, Primary Key)

location (varchar(255))

order\_date (date)

total (double)

address\_id (int, Foreign Key)

customer\_id (int, Foreign Key)

1. **Mobile**

mobile\_id (int, Primary Key)

cart\_id (int)

category\_name (varchar(255))

colour (varchar(255))

dimension (varchar(255))

price (double)

mobile\_name (varchar(255))

quantity (int)

specification (varchar(255))

1. **User**

id (varchar(255), Primary Key)

password (varchar(255))

role (varchar(255))

1. **Payment**

payment\_id(int, Primary Key)

payment\_date(date)

payment\_method (varchar(255))

amount(decimal)

**Entity Relationship Diagram – Online Mobile Management System:**

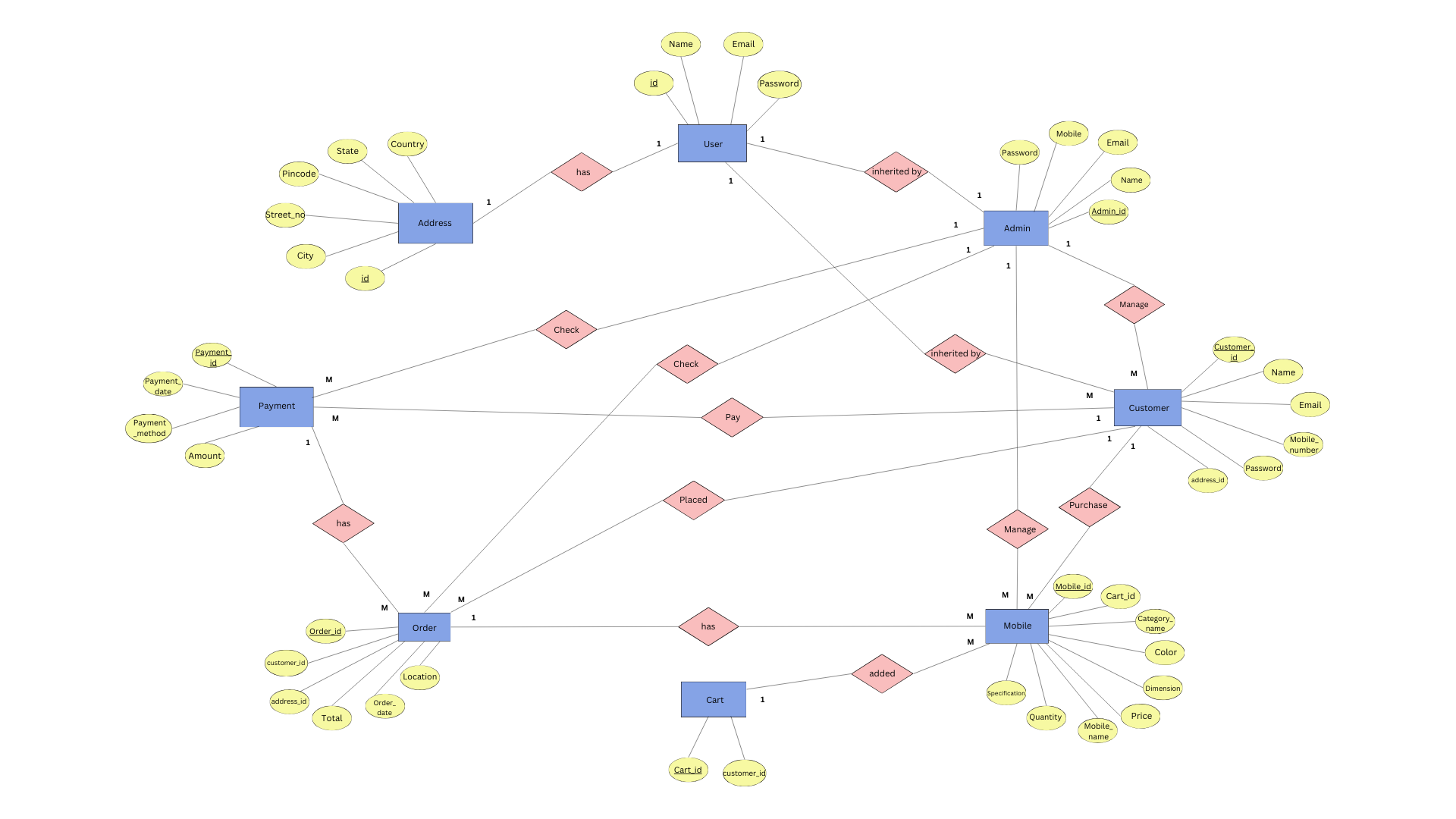


Fig: ER diagram

**Conclusion:**

The Online Mobile Management System is a robust solution for managing mobile phone records efficiently. Developed using Java, Hibernate, and SQL, it ensures scalability, maintainability, and user-friendliness. The system automates data handling, inventory tracking, and record management, reducing manual efforts and minimizing errors. It enables seamless data retrieval, updating, and reporting, improving operational efficiency. With secure database management and structured data storage, it enhances reliability and accessibility. The use of Hibernate ORM simplifies database interactions, ensuring smooth performance. This system is ideal for retailers, service centers, and mobile distributors. Its automated workflows and real-time data updates make mobile inventory management effortless.

**Top of Form**

**Bottom of Form**

**Database Creation Query:**

**mysql> create table Address (**

**-> address\_id int(255) not null primary key,**

**-> city varchar(255)not null,**

**-> country varchar(255) not null,**

**-> pincode varchar(255) not null,**

**-> state varchar(255) not null,**

**-> street\_no varchar(255) not null**

**-> );**

**mysql> create table Admin (**

**-> admin\_id int(255) not null primary key,**

**-> email varchar(255) not null,**

**-> name varchar(255) not null,**

**-> mobile\_number varchar(255) not null,**

**-> password varchar(255)**

**-> );**

**mysql> create table User (**

**-> id varchar(255) primary key,**

**-> password varchar(255),**

**-> role varchar(255) not null**

**-> );**

**mysql> create table Payment (**

**-> payment\_id int(255) not null,**

**-> payment\_date date,**

**-> payment\_method varchar(255),**

**-> amount decimal**

**-> );**

**mysql> create table Mobile (**

**-> mobile\_id int(255) primary key,**

**-> cart\_id int(255),**

**-> category\_name varchar(255) not null,**

**-> colour varchar(255),**

**-> dimension varchar(255),**

**-> price double,**

**-> product\_name varchar(255),**

**-> quantity int,**

**-> specification varchar(255)**

**-> );**

**mysql> CREATE TABLE customer (**

**-> customer\_id INT AUTO\_INCREMENT PRIMARY KEY,**

**-> email VARCHAR(255) UNIQUE NOT NULL,**

**-> first\_name VARCHAR(255) NOT NULL,**

**-> mobile\_number VARCHAR(20) UNIQUE NOT NULL,**

**-> password VARCHAR(255) NOT NULL,**

**-> address\_id INT,**

**-> FOREIGN KEY (address\_id) REFERENCES address(address\_id) ON DELETE SET NULL**

**-> );**

**mysql> CREATE TABLE cart (**

**-> cart\_id INT AUTO\_INCREMENT PRIMARY KEY,**

**-> customer\_id INT,**

**-> FOREIGN KEY (customer\_id) REFERENCES customer(customer\_id)**

**-> );**

**mysql> CREATE TABLE orders (**

**-> order\_id INT AUTO\_INCREMENT PRIMARY KEY,**

**-> location VARCHAR(255) NOT NULL,**

**-> order\_date DATE NOT NULL,**

**-> order\_status VARCHAR(50) DEFAULT 'Pending',**

**-> total DECIMAL(10,2) NOT NULL,**

**-> address\_id INT,**

**-> customer\_id INT,**

**-> FOREIGN KEY (address\_id) REFERENCES address(address\_id) ON DELETE SET NULL,**

**-> FOREIGN KEY (customer\_id) REFERENCES customer(customer\_id) ON DELETE CASCADE,**

**-> INDEX (address\_id),**

**-> INDEX (customer\_id)**

**-> );**