***ANUDIP FOUNDATION***

A Project Report on

**“ONLINE SHOPPING SYSTEM”**

By

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ONLINE SHOPPING SYSTEM

A Shopping Management System (SMS) is designed to enhance the online shopping experience by utilizing advanced algorithms to analyze user preferences, purchase history, and real-time trends. By integrating various functionalities such as customer management, product cataloging, order processing, and personalized recommendations, the system streamlines the entire shopping process. This not only helps users discover and explore products that match their tastes and preferences but also optimizes the operational efficiency for retailers. With features like customer sessions, cart management, and order tracking, the Shopping Management System ensures a seamless and engaging shopping experience for users while providing valuable insights for businesses to enhance their service offerings.

**Entities:**

* Address
* Admin
* Cart
* Customer
* Order
* Product
* User
* Payment

**VARIOUS 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\_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\_address\_id (int, Foreign Key)

1. **Order**

* order\_id (int, Primary Key)
* location (varchar(255))
* order\_date (date)
* total (double)
* address\_address\_id (int, Foreign Key)
* customer\_customer\_id (int, Foreign Key)

1. **Product**

* product\_id (int, Primary Key)
* cart\_id (int)
* category\_name (varchar(255))
* colour (varchar(255))
* dimension (varchar(255))
* price (double)
* product\_name (varchar(255))
* quantity (int)
* specification (varchar(255))

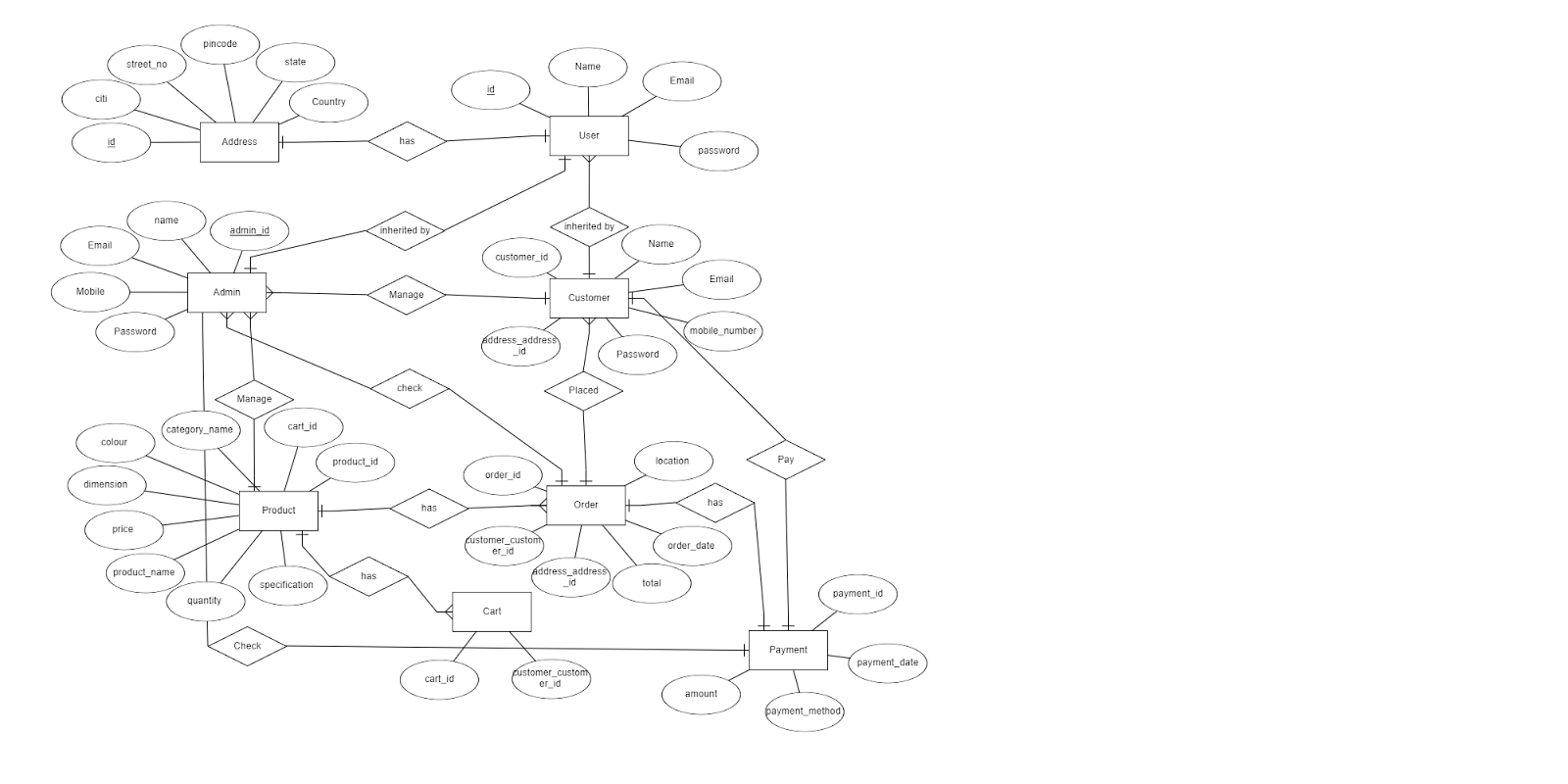
1. **User**

* id (varchar(255), Primary Key)
* password (varchar(255))
* role (varchar(255))

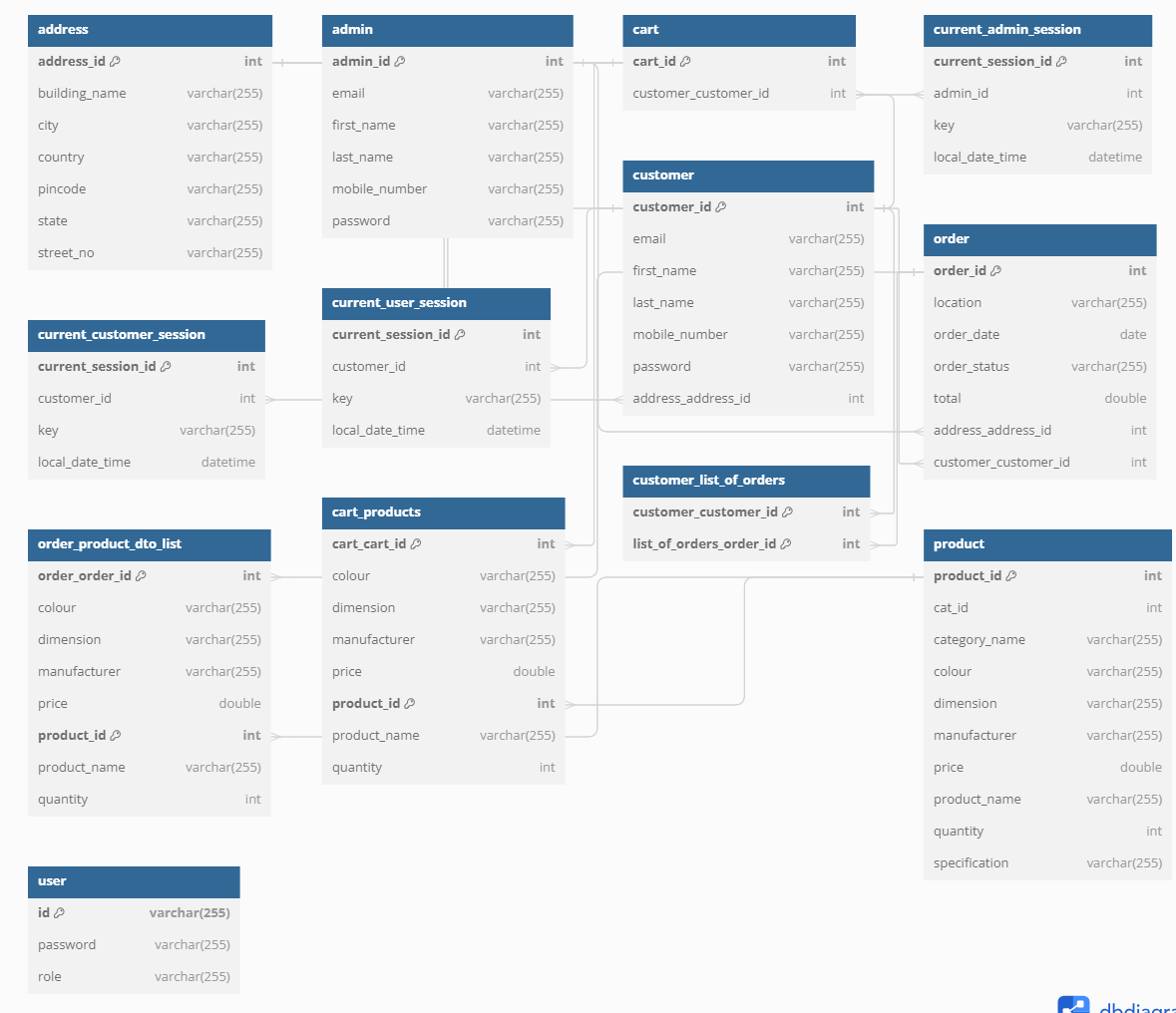
       8.  **Payment**

* payment\_id(int)
* payment\_date(date)
* payment\_method (varchar(255))
* amount(decimal)

**ER DIAGRAM FOR ONLINE SHOPPING SYSTEM:**

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**CLASS DIAGRAM FOR ONLINE SHOPPING SYSTEM:**



**DATABASE:-**

CREATE DATABASE Online\_Shopping\_System;

USE Online\_Shopping\_System;

CREATE TABLE address (

address\_id INT AUTO\_INCREMENT PRIMARY KEY,

building\_name VARCHAR(255),

city VARCHAR(255),

country VARCHAR(255),

pincode VARCHAR(255),

state VARCHAR(255),

street\_no VARCHAR(255)

);

CREATE TABLE admin (

admin\_id INT AUTO\_INCREMENT PRIMARY KEY,

email VARCHAR(255),

first\_name VARCHAR(255),

last\_name VARCHAR(255),

mobile\_number VARCHAR(255),

password VARCHAR(255)

);

CREATE TABLE cart (

cart\_id INT AUTO\_INCREMENT PRIMARY KEY,

    customer\_customer\_id INT,

FOREIGN KEY (customer\_customer\_id) REFERENCES customer(customer\_id)

);

CREATE TABLE current\_admin\_session (

current\_session\_id INT AUTO\_INCREMENT PRIMARY KEY,

admin\_id INT,

`key` VARCHAR(255),

local\_date\_time DATETIME(6),

FOREIGN KEY (admin\_id) REFERENCES admin(admin\_id)

);

CREATE TABLE current\_customer\_session (

current\_session\_id INT AUTO\_INCREMENT PRIMARY KEY,

customer\_id INT,

`key` VARCHAR(255),

local\_date\_time DATETIME(6),

FOREIGN KEY (customer\_id) REFERENCES customer(customer\_id)

);

CREATE TABLE current\_user\_session (

current\_session\_id INT AUTO\_INCREMENT PRIMARY KEY,

customer\_id INT,

`key` VARCHAR(255),

local\_date\_time DATETIME(6),

FOREIGN KEY (customer\_id) REFERENCES customer(customer\_id)

);

CREATE TABLE customer (

customer\_id INT AUTO\_INCREMENT PRIMARY KEY,

email VARCHAR(255),

first\_name VARCHAR(255),

last\_name VARCHAR(255),

mobile\_number VARCHAR(255),

password VARCHAR(255),

address\_address\_id INT,

FOREIGN KEY (address\_address\_id) REFERENCES address(address\_id)

);

CREATE TABLE `order` (

order\_id INT AUTO\_INCREMENT PRIMARY KEY,

location VARCHAR(255),

order\_date DATE,

order\_status VARCHAR(255),

total DOUBLE,

address\_address\_id INT,

    customer\_customer\_id INT,

FOREIGN KEY (address\_address\_id) REFERENCES address(address\_id),

FOREIGN KEY (customer\_customer\_id) REFERENCES customer(customer\_id)

);

CREATE TABLE order\_product\_dto\_list (

order\_order\_id INT,

colour VARCHAR(255),

dimension VARCHAR(255),

manufacturer VARCHAR(255),

price DOUBLE,

product\_id INT,

product\_name VARCHAR(255),

quantity INT,

PRIMARY KEY (order\_order\_id, product\_id),

FOREIGN KEY (order\_order\_id) REFERENCES `order`(order\_id),

FOREIGN KEY (product\_id) REFERENCES product(product\_id)

);

CREATE TABLE cart\_products (

cart\_cart\_id INT,

colour VARCHAR(255),

dimension VARCHAR(255),

manufacturer VARCHAR(255),

price DOUBLE,

product\_id INT,

product\_name VARCHAR(255),

quantity INT,

PRIMARY KEY (cart\_cart\_id, product\_id),

FOREIGN KEY (cart\_cart\_id) REFERENCES cart(cart\_id),

FOREIGN KEY (product\_id) REFERENCES product(product\_id)

);

CREATE TABLE customer\_list\_of\_orders (

    customer\_customer\_id INT,

    list\_of\_orders\_order\_id INT,

PRIMARY KEY (customer\_customer\_id, list\_of\_orders\_order\_id),

FOREIGN KEY (customer\_customer\_id) REFERENCES customer(customer\_id),

FOREIGN KEY (list\_of\_orders\_order\_id) REFERENCES `order`(order\_id)

);

CREATE TABLE product (

product\_id INT AUTO\_INCREMENT PRIMARY KEY,

cat\_id INT,

category\_name VARCHAR(255),

colour VARCHAR(255),

dimension VARCHAR(255),

manufacturer VARCHAR(255),

price DOUBLE,

product\_name VARCHAR(255),

quantity INT,

specification VARCHAR(255)

);

CREATE TABLE user (

id VARCHAR(255) PRIMARY KEY,

password VARCHAR(255),

role VARCHAR(255)

);

**CONCLUSION:**

In conclusion, online shopping has revolutionized retail, offering unparalleled convenience but also posing challenges like cybersecurity threats. Despite these challenges, the future of online shopping looks promising with advancements in technology. To stay competitive, businesses must adapt to evolving consumer preferences and prioritize security measures.

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