**Online Shopping System**.

This project is based on Online Shopping App using Java, Spring, Spring Boot, MySQL. There are 6 model classes in the project User, Customer, Address, Product, Cart and Order. The main goal of this project is to create a series of backend API’s so that the user can access the functionalities of the various types of functions of the models just like the functionalities one can get while shopping from any online website.

**Abstract:**

The **Online Shopping System** is an integrated web-based application designed to provide complete solutions for both vendors and customers. Here are the key points:

1. **Goal and Objectives**:
   * **Goal**: To create an efficient system for handling customer orders, inventory management, and secure transactions.
   * **Objectives**: Streamline shopping processes, enhance user experience, and provide a seamless platform for buying products online.
2. **System Components**:
   * **Inventory Management**: Tracks available products, categories, and other relevant details.
   * **Order Processing**: Manages customer orders, maintains order history, and facilitates secure payments.
   * **User Interface**: Provides an intuitive and user-friendly interface for browsing products, adding them to the cart, and checking out.
3. **Software Requirements**:
   * **Front-End Frameworks**: Choose from technologies like **Angular, Back-End Services**: Develop backend services using  **Java (Spring Boot**
   * **Database**: Select an appropriate database system such as **MySQL**
   * **Security**: Implement secure authentication and encryption for user privacy.

[Remember, the Online Shopping System plays a crucial role in providing a convenient and efficient platform for users to shop online](https://www.studocu.com/in/document/vellore-institute-of-technology/software-engineering/srs-documentation-online-shoping-system/9072111).

## **Tech Stacks & Tools Used**

Tech Stacks:

1. Java
2. MySQL
3. Spring
4. Spring Boot

Tools:

1. Spring Tool Suite
2. Swagger
3. Postman

Link to Swagger: <http://localhost:8088/swagger-ui/index.html#/>

To register as a user:

<http://localhost:8088/regisrtration>

To login as a user:

<http://localhost:8088/login>

To add new products

<http://localhost:8088/newproducts>

To get customer

[http://localhost:8088/{customerId}](http://localhost:8088/%7BcustomerId%7D)

To add products to cart:

[http://localhost:8088/Cart/addtocart/{id}/{custId}](http://localhost:8088/Cart/addtocart/%7Bid%7D/%7BcustId%7D)

To get all address:

<http://localhost:8088/getAll>

[Swagger UI](http://localhost:8088/swagger-ui/index.html#/address-controller/saveAddressHandler)

**Request used for each endpoint:**

Registration(adding user):

{

"UserId":101,

"name": "Sai",

"mobile":"7896158490",

"password": "sai@123",

“role”: “Customer”

}

Login :

{

"mobileNo":"7896158490",

"password": "sai@123"

}

**Adding Product:**

{

"productName":"SamsungGalaxy",

"price": 1000,

"quantity":1,

"manufacturer":"Samsung",

"category":"MOBILES"

}

**Adding Address:**

{

"streetNo":"101",

"buildingName":"SuryaEnclave",

"city":"hyderabad",

"country":"india",

"state":"Telangana",

"pincode":500010

}

**Adding Customer:**

{

"firstName":"Sai",

"lastName":"Surya",

"mobileNumber":"7896158490",

"email":"sai@gmail.com",

"addressList":[{

"streetNo":"101",

"buildingName":"SuryaEnclave",

"city":"hyderabad",

"country":"india",

"state":"Telangana",

"pincode":500010

}]

}

# System Configuration: -

# H/W System Configuration: -

# **Processor -** Intel(R) Core(TM) i5-6300U CPU @ 2.40GHz 2.50 GHz

Speed - 1.1 Ghz

RAM - 16 GB

Hard Disk - 20 GB

Key Board - Standard Windows Keyboard

Mouse - Two or Three Button Mouse

Monitor - SVGA

**DBScripts:**

Create database project;

use project;

create table address (address\_id integer not null, building\_name varchar(255) not null, city varchar(255) not null, country varchar(255) not null, pincode varchar(255), state varchar(255) not null, street\_no varchar(255) not null, primary key (address\_id)) engine=InnoDB

create table cart (cart\_item\_id integer not null, cart\_item\_product\_id integer, customerlist\_customer\_id integer, primary key (cart\_item\_id)) engine=InnoDB

create table current\_user\_session (id integer not null, user\_id integer, time datetime(6), unique\_id varchar(255), primary key (id)) engine=InnoDB

create table customer (customer\_id integer not null, email varchar(255), first\_name varchar(255) not null, last\_name varchar(255) not null, mobile\_number varchar(255) not null, primary key (customer\_id)) engine=InnoDB

create table customer\_addresslist (customer\_customer\_id integer not null, addresslist\_address\_id integer not null) engine=InnoDB

create table hibernate\_sequence (next\_val bigint) engine=InnoDB

insert into hibernate\_sequence values ( 1 )

create table my\_order (orderid integer not null, localdtetime datetime(6), orderstatus varchar(255), address\_address\_id integer, customer\_customer\_id integer, primary key (orderid)) engine=InnoDB

create table my\_order\_productlist (my\_order\_orderid integer not null, productlist\_product\_id integer not null) engine=InnoDB

create table products (product\_id integer not null, category varchar(255), color varchar(255), dimension varchar(255), manufacturer varchar(255) not null, price double precision not null, product\_name varchar(255) not null, quantity integer, specification varchar(255), primary key (product\_id)) engine=InnoDB

create table user (user\_id integer not null, mobile varchar(255) not null, name varchar(255) not null, password varchar(255) not null, primary key (user\_id)) engine=InnoDB

alter table current\_user\_session drop index UK\_jhte8iaovevdj69c971ca2wm1

alter table current\_user\_session add constraint UK\_jhte8iaovevdj69c971ca2wm1 unique (user\_id)

alter table customer\_addresslist drop index UK\_mt716rawdy7i1l9g1dxfm5lei

alter table customer\_addresslist add constraint UK\_mt716rawdy7i1l9g1dxfm5lei unique (addresslist\_address\_id)

alter table my\_order\_productlist drop index UK\_c9itc02enbmxj3na73qdw41s9

alter table my\_order\_productlist add constraint UK\_c9itc02enbmxj3na73qdw41s9 unique (productlist\_product\_id)

alter table cart add constraint FKihmlrhtwvqu0tscap75v2cjg6 foreign key (cart\_item\_product\_id) references products (product\_id)

alter table cart add constraint FKf9l7w5riuboahnilmumqd0pq foreign key (customerlist\_customer\_id) references customer (customer\_id)

alter table customer\_addresslist add constraint FK4vplq9fbs3d6ppj6od8o6rr7t foreign key (addresslist\_address\_id) references address (address\_id)

alter table customer\_addresslist add constraint FKpjp29ubg21t0y32s96srwfkva foreign key (customer\_customer\_id) references customer (customer\_id)

alter table my\_order add constraint FKs52kryjqp4quf5crtm1i7pmgt foreign key (address\_address\_id) references address (address\_id)

alter table my\_order add constraint FKdly9avjdrmbmk71r9gwngxssh foreign key (customer\_customer\_id) references customer (customer\_id)

alter table my\_order\_productlist add constraint FK9bj7w2f1s7us9e1ddsx8g547v foreign key (productlist\_product\_id) references products (product\_id)

alter table my\_order\_productlist add constraint FKtqxtuftr1mf6shtuf4vrs6o9s foreign key (my\_order\_orderid) references my\_order (orderid)

