

A Report on Capstone Project

# **SHOP FOR HOME**

done by

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## **Abstract**

The Shop For Home is an E-Commerce Website which is developed for shopping required products like groceries, home appliances, electronic devices, mobiles, beauty items through online without direct interaction of the customer to the seller. The project is developed by using the technologies Angular, Springboot and MySQL. The front-End is developed by using Angular, the backend is developed by using Springboot and MySQL is the database which is used for data storing.

Online platform provides convenience for customers as they do not have to leave home and only need to browse website online, especially for buying the products which are not sold in nearby shops. It could help customers buy wider range of products and save customers time. Consumers also gain product information through online shopping and research products and compare prices among retailers.

## Table of Content

S.no	Content	Page
1	Introduction Technologies	4
2	Used Problem Statement	5
3	Backend Implementation	7
4	Frontend Implementation	8
5	Working with Database	10
6	Source Code – Backend	11
7	Source Code – Frontend	12
8	Output	73
9	Conclusion	131

## Introduction

E-Commerce stands for electronic commerce, as in online. It's an umbrella term for any transaction done over the internet. E-Commerce includes retail stores, such as clothing and other physical products, and services of all types, from cyber security to booking a hotel. The most common way to facilitate online sales and transactions, is through a dedicated online store.

E-commerce creates new job opportunities based on information related services, software app and digital products. It also causes job losses like areas with the greatest predicted job-loss are retail, postal, and travel agencies. The development of e-commerce will create jobs that require highly skilled workers to manage large amounts of information, customer demands, and production processes. In contrast, people with poor technical skills cannot enjoy the wages welfare. On the other hand, because e-commerce requires sufficient stocks that could be delivered to customers in time, the warehouse becomes an important element. Warehouse needs more staff to manage, supervise and organize, thus the condition of warehouse environment will be concerned by employees.

However, e-commerce lacks human interaction for customers, especially who prefer face-to-face connection. Customers are also concerned with the security of online transactions and tend to remain loyal to well-known retailers. In recent years, clothing retailers such as Tommy

Hilfiger have started adding Virtual Fit platforms to their e-commerce sites to reduce the risk of customers buying the wrong sized clothes, although these vary greatly in their fit for purpose. When the customer regret the purchase of a product, it involves returning goods and refunding process. This process is inconvenient as customers need to pack and post the goods. If the products are expensive, large or fragile, it refers to safety issues.

E-commerce brings convenience for customers as they do not have to leave home and only need to browse website online, especially for buying the products which are not sold in nearby shops. It could help customers buy wider range of products and save customers' time. Consumers also gain power through online shopping. They research products and compare prices among retailers. Also, online shopping often provides sales promotion or discounts code, thus it is more price effective for customers. Moreover, e-commerce provides products' detailed information; even the in-store staff cannot offer such detailed explanation. Customers can also review and track the order history online.

## **Technologies Used:**

### **Angular:**

Angular is a platform and framework for building single-page client applications using HTML and TypeScript. Angular was written in TypeScript. It implements core and optional functionality as a set of

TypeScript libraries that you import into applications.

The basic building blocks of the Angular framework are Angular components that are organized into Ng Modules.

- Ng Modules collect related code into functional sets; an Angular application is defined by a set of Ng Modules.
- An application always has at least a root module that enables bootstrapping, and typically has many more feature modules.

Components are the building blocks that compose an application. A component includes a TypeScript class with a `@Component()` decorator, an HTML template, and styles.

The `@Component()` decorator specifies the following Angular-specific information:

- A CSS selector that defines how the component is used in a template. HTML elements in your template that match this selector become instances of the component.
- An HTML template that instructs Angular how to render the component
- An optional set of CSS styles that define the appearance of the template's HTML elements

Modules, components and services are classes that use decorators. These decorators mark their type and provide metadata that tells Angular how to

use them.

- The metadata for a component class associates it with a *template* that defines a view. A template combines ordinary HTML with Angular *directives* and *binding markup* that allow Angular to modify the HTML before rendering it for display.
- The metadata for a service class provides the information Angular needs to make it available to components through dependency injection (DI).

Angular provides the Router service to help you define navigation paths among views. The router provides sophisticated in-browser navigational capabilities.

## **Springboot:**

Spring Boot makes it easy to create stand-alone, production-grade Spring based Applications that can be just run applications.

We take an opinionated view of the Spring platform and third-party libraries so you can get started with minimum fuss. Most Spring Boot applications need minimal Spring configuration.

## **Features**

- Create stand-alone Spring applications
- Embed Tomcat, Jetty or Undertow directly (no need to deploy WAR files)

- Provide opinionated 'starter' dependencies to simplify your build configuration
- Automatically configure Spring and 3rd party libraries whenever possible
- Provide production-ready features such as metrics, health checks, and externalized configuration.

Java Spring Boot is a tool that makes developing web application and microservices ,by Spring Framework faster and easier through three core capabilities:

1. Autoconfiguration
2. An opinionated approach to configuration
3. The ability to create standalone applications

These features work together to provide you with a tool that allows you to set up a Spring-based application with minimal configuration and setup. Spring is widely used for creating scalable applications. For web applications Spring provides Spring MVC which is a widely used module of spring which is used to create scalable web applications.

But main disadvantage of spring projects is that configuration is really time-consume and can be a bit overwhelming for the new developers. Making the application production-ready takes some time if you are new to the spring.

Solution to this is Spring Boot. Spring Boot is built on the top of the spring and contains all the features of spring. And is becoming favourite



of developer's these days because of it's a rapid production-ready environment which enables the developers to directly focus on the logic instead of struggling with the configuration and set up.

Spring Boot is a microservice-based framework and making a production-ready application in it takes very less time. Prerequisite for Spring Boot is the basic knowledge Spring framework.

## **MySQL:**

MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQL is developed, marketed and supported by MySQL AB, which is a Swedish company. MySQL is becoming so popular because of many good reasons -

- MySQL is released under an open-source license. So you have nothing to pay to use it.
- MySQL is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful database packages.
- MySQL uses a standard form of the well-known SQL data language.
- MySQL works on many operating systems and with many languages including PHP, PERL, C, C++, JAVA, etc.
- MySQL works very quickly and works well even with large data sets.

- MySQL is very friendly to PHP, the most appreciated language for web development.
- MySQL supports large databases, up to 50 million rows or more in a table. The default file size limit for a table is 4GB, but you can increase this (if your operating system can handle it) to a theoretical limit of 8 million terabytes (TB).
- MySQL is customizable. The open-source GPL license allows programmers to modify the MySQL software to fit their own specific environments.

## **Problem Statement:**

ShopForHome is a popular Store in the market for shopping the home décor stuff. Due to Covid 19 all the offline shopping stopped. So, the store wants to move to the online platforms and wants their own web application.

There are 2 users  
on the application: -

- 1.User
- 2.Admin

## **User Stories –**

- 1.As a user I should be able to login, Logout and Register into the application.
- 2.As a user I should be able to see the products in different categories.
- 3.As a user I should be able to sort the products.

- 4.As a user I should be able to add the products into the shopping cart.
- 5.As a user I should be able to increase or decrease the quantity added in the cart.
- 6.As a user I should be able to add “n” number of products in the cart.
- 7.As a user I should be able to get the Wishlist option where I can add those products which I want but don’t want to order now.
- 8.As a user I should get different discount coupons.

## **Admin Stories –**

- 1.As an Admin I should be able to login, Logout and Register into the application.
- 2.As an Admin I should be able to perform CRUD on Users.
- 3.As an Admin I should be able to Perform CRUD on the products.
- 4.As an Admin I should be able to get bulk upload option to upload a csv for products details.
- 5.As an Admin I should be able to get the stocks.
- 6.As an Admin I should be able to mail if any stock is less than 10.
- 7.As an Admin I should be able to get the sales report of a specific duration.
- 8.As an Admin I should be able to set the discount coupons for the specific set of users.

## **Instructions –**

1. Please use a folder on server to upload the images.
2. Please share the database structure in the .sql file.
3. Please create a separate microservice for reports and discount coupons.
4. Please use separate port to deploy the Angular UI and Spring Boot Microservice.
5. Please use the UI designing tool like (Bootstrap or Material) to make your UI better.
6. Please use Material UI to create the UI.

## Frontend Implementation

Initially Install the Angular within the PC by using the command `npm install -g @angular/cli`

After installation,

### 1.Created a Repository:

Created a repository in Git-Hub to export the source code and share within the team.

### 2.Creating Project:

Create an angular project by using the command **`ng new Project-Name`** (Shop from home).

The project is generated after the installation of required package. Open the project in the Visual Studio Code.

After opening the project with the VS code create the components.

### 3.Creating Components:

For creating the components use the command **`ng generate component component-name`**.

The Components within the project are:

1. admin
2. adminlogin
3. cart
4. checkout
5. discount
- 6.e-commerce

- 7. header
- 8. payment
- 9. products
- 10. uploadfiles
- 11. userlogin
- 12. userregister
- 13. users
- 14. wishlist
- 15.service
- 16.shared.

#### **4.Creating the static template of e-commerce website:**

By using angular in vs code we developed the structured code using HTML, adds styling using CSS, and adds the backend actions by using java script.

The structured code is stored on html page, the css will be stored in the .css file and the actions will be stored in the .ts file.

In this template we created the all pages like homepage, cart page, sign in and signup page, wishlist page, and the categories page in the homepage.

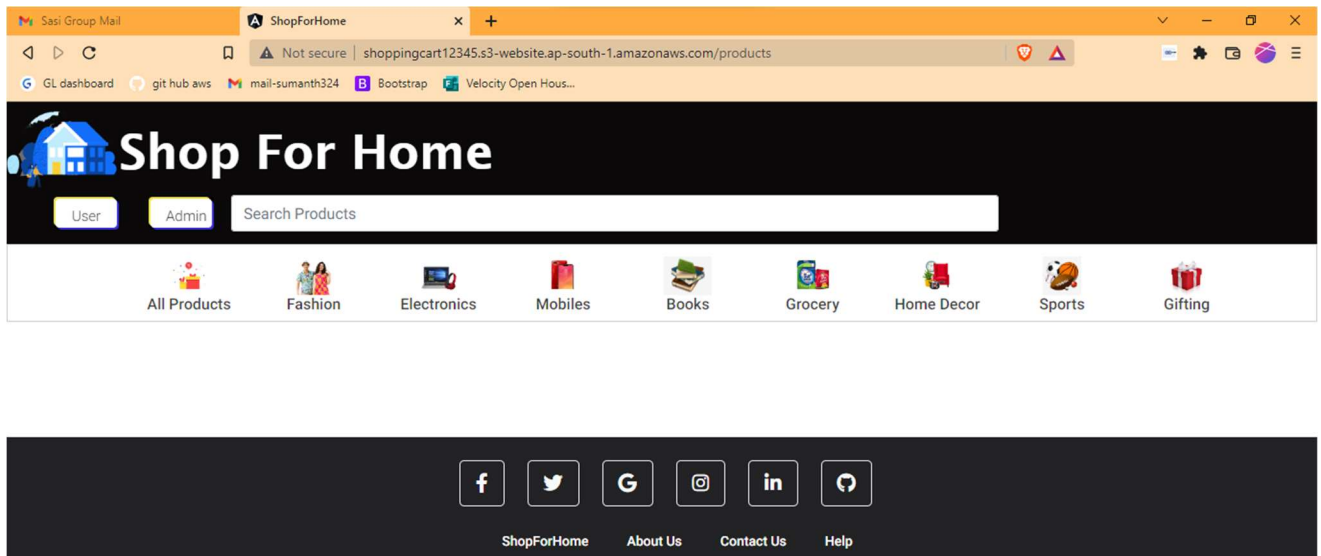


Fig- Homepage

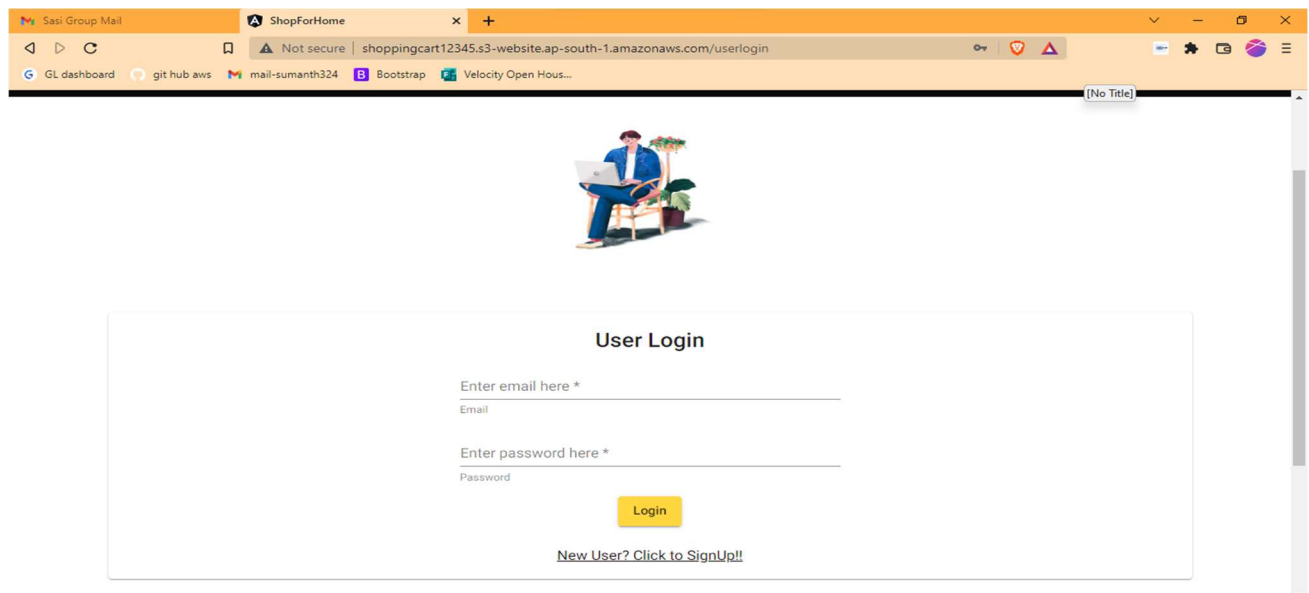


Fig- Sign-in page

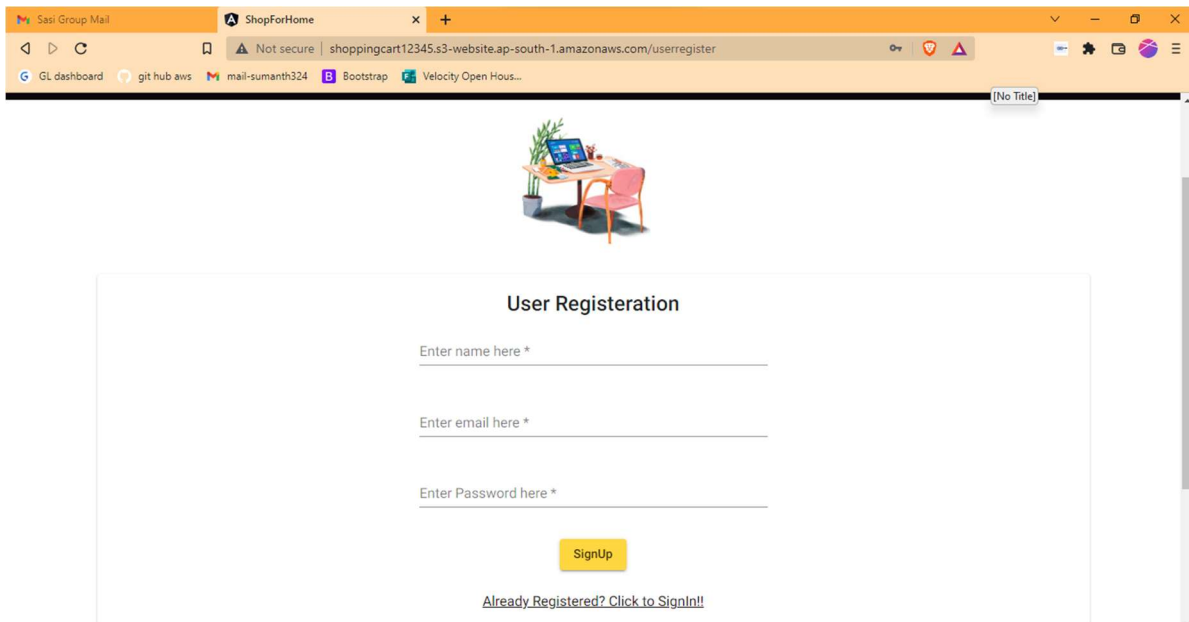


Fig – Sign-up page

## 5. Creates function search:

By using type script and html creates the search function by comparing the user input in the data of products we have in the data base.

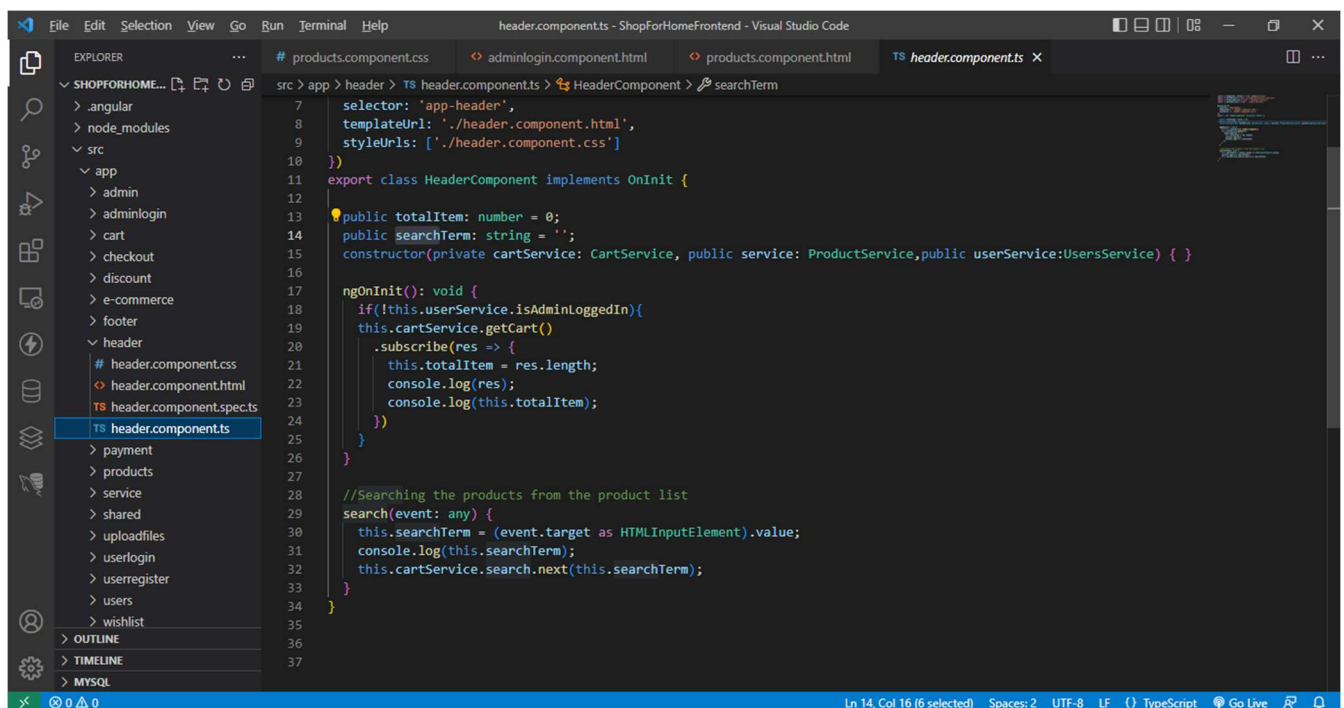


fig- search function

## 6. Creating categories:

By using the data base while inserting the product data we included the category id by that we created the categories in the homepage. If the select single category it will show on the products in the category id.



Fig- catagories

## 7. Creating cart:

In the card module the cart.html had the structure of cart page, in css we added the cart styling and in the ts file we had the actions like adding and removing by adding the product in the cart table in database and removing from database.

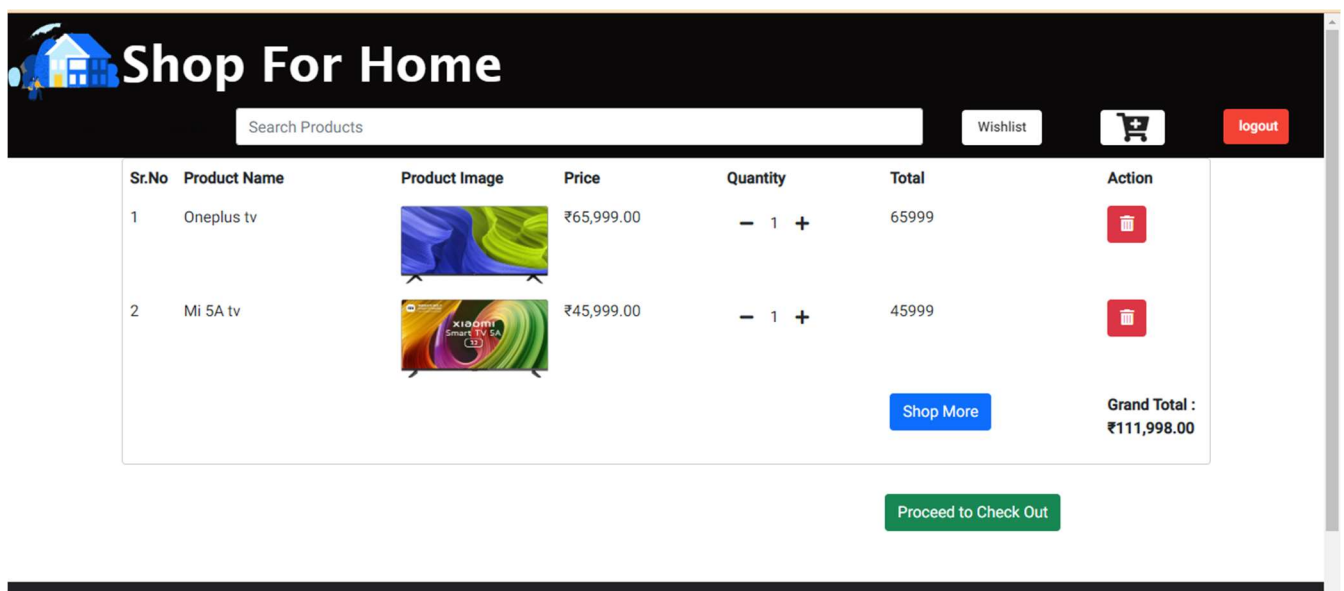


Fig- cart



## 8.Execution:

Make sure that `app-routing.module.ts` is well written and importing of respective component modules are done perfectly.

After the completing of implementation part for executing the project by using the command **ng serve**

If the code is error free it executes perfectly by showing the port number.

## **Backend Implementation**

### **1.Initialization of Spring Boot:**

To start with Spring Boot REST API, you first need to initialize the Spring Boot Project. You can easily initialize a new Spring Boot Project with Spring Initializer.

From your Web Browser, go to [start.spring.io](https://start.spring.io). Choose Maven as your Build Tool and Language as Java. Select the specific version of Spring Boot you want to go ahead with.

Add dependencies:

1. Spring Web
2. Spring Boot DevTools
3. Spring Data JPA
4. MySQL Driver
5. JDBC API
6. Web Socket

### **2.Connecting Spring Boot to the Database:**

Next, you need to set up the Database, and you can do it easily with Spring Data JPA.

Add some elementary information in your application. Properties file to set up the connection to your preferred Database. Add your JDBC connection URL, provide a username and password for authentication, and set the `ddl-auto` property to update.

### 3. Creating Required Packages:

Create new packages as per requirement within the initiated project.

The packages are generated in the project are mentioned below:

1. Config
2. Controller
3. Exception
4. Model
5. Repository
6. Service

### 4. Creation of entities:

creation of entities in springboot application, as shown in below

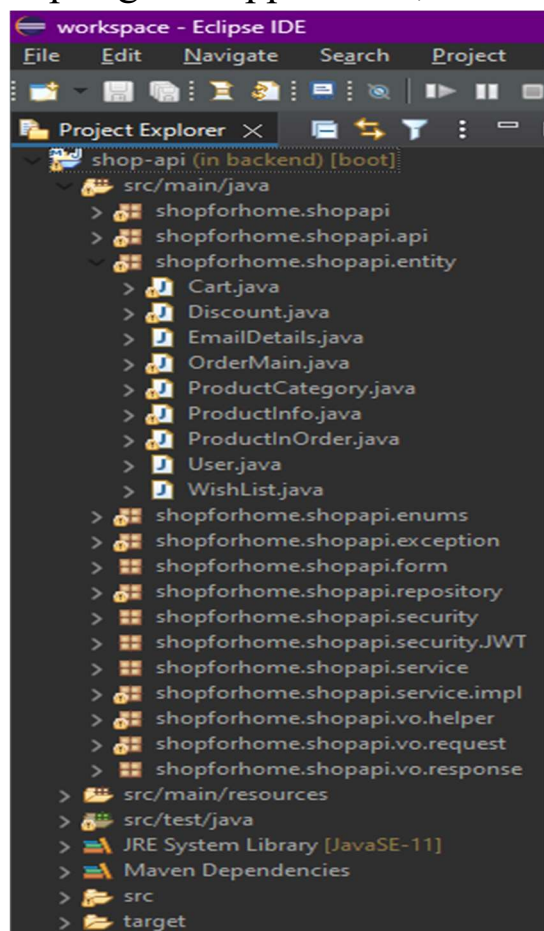
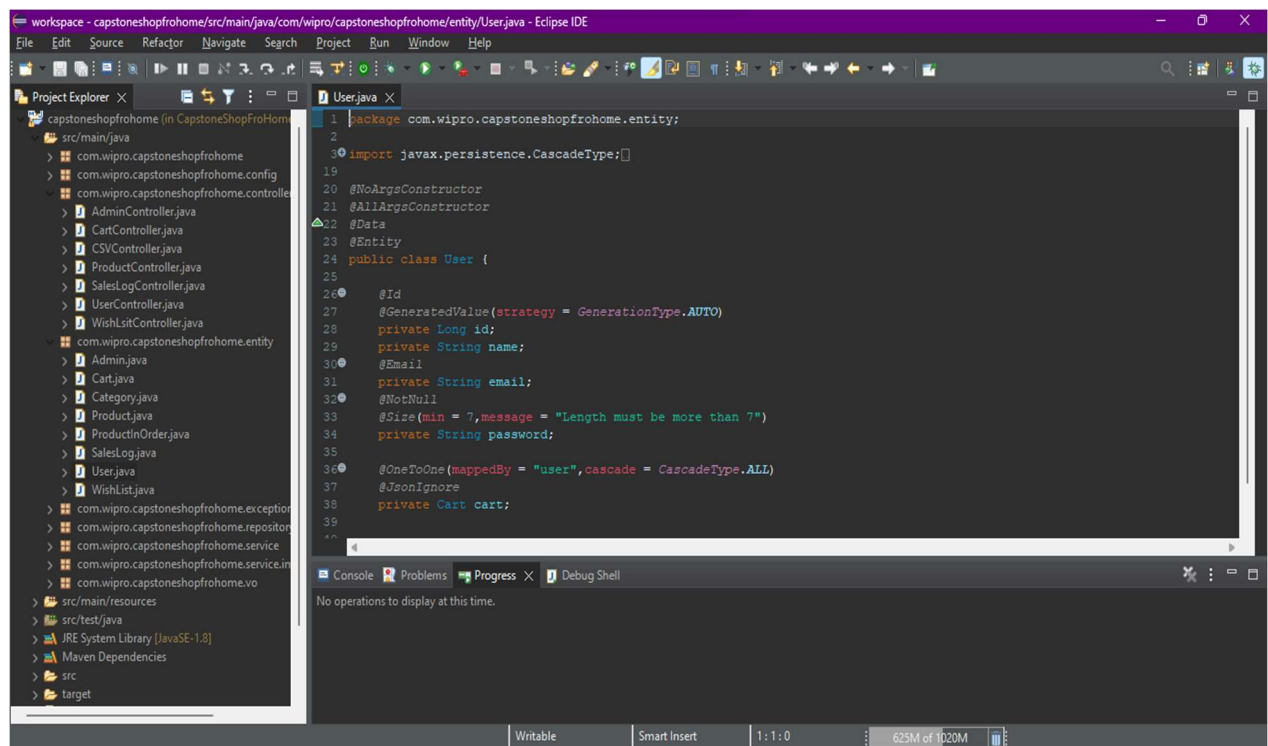


Fig- creation of entites

## 5. Creation of Data Transfer objects:

Creation of Data Transfer objects – boot as shown in below



```

workspace - capstoneshopfrohome/src/main/java/com/wipro/capstoneshopfrohome/entity/User.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

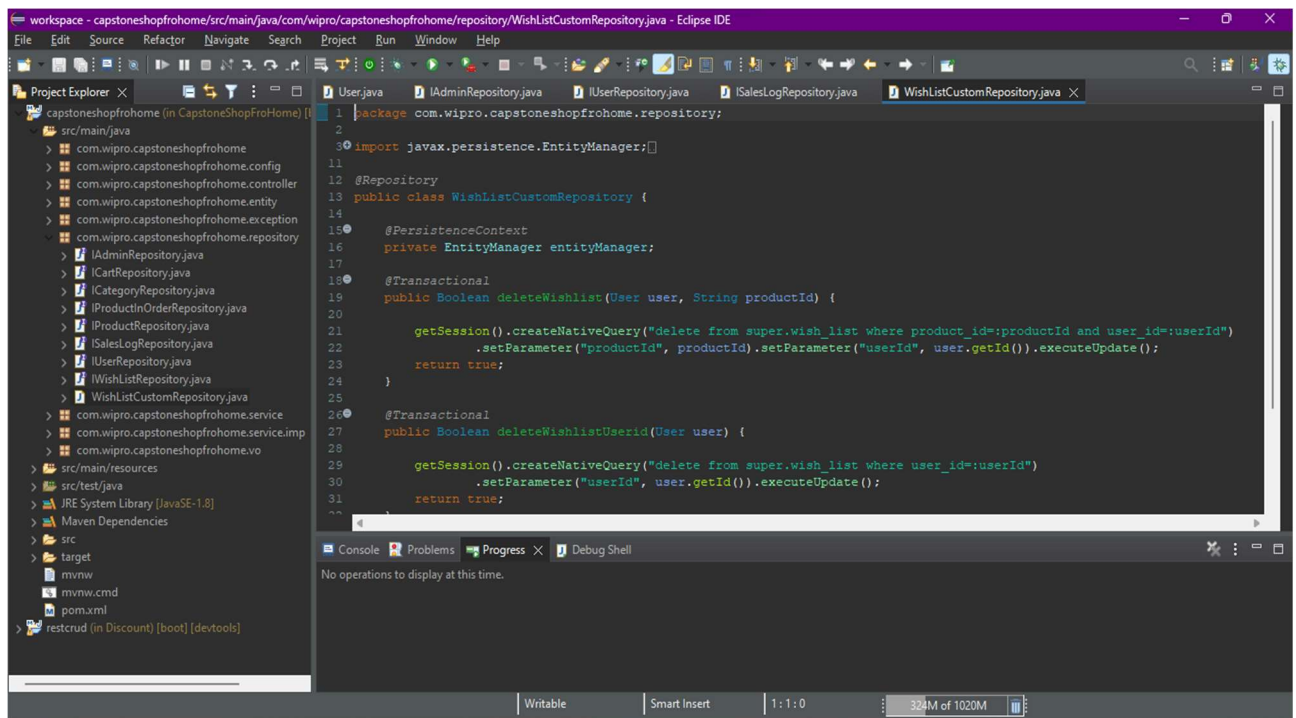
Project Explorer
capstoneshopfrohome (in CapstoneShopFroHome)
src/main/java
  com.wipro.capstoneshopfrohome
  com.wipro.capstoneshopfrohome.config
  com.wipro.capstoneshopfrohome.controller
    AdminController.java
    CartController.java
    CSVController.java
    ProductController.java
    SalesLogController.java
    UserController.java
    WishListController.java
  com.wipro.capstoneshopfrohome.entity
    Admin.java
    Cart.java
    Category.java
    Product.java
    ProductInOrder.java
    SalesLog.java
    User.java
    WishList.java
  com.wipro.capstoneshopfrohome.exception
  com.wipro.capstoneshopfrohome.repository
  com.wipro.capstoneshopfrohome.service
  com.wipro.capstoneshopfrohome.service.implementation
  com.wipro.capstoneshopfrohome.vo
src/main/resources
src/test/java
JRE System Library [JavaSE-1.8]
Maven Dependencies
src
target

User.java
1 package com.wipro.capstoneshopfrohome.entity;
2
3 import javax.persistence.CascadeType;
4
5 @NoArgsConstructor
6 @AllArgsConstructor
7 @Data
8 @Entity
9 public class User {
10
11     @Id
12     @GeneratedValue(strategy = GenerationType.AUTO)
13     private Long id;
14     private String name;
15     @Email
16     private String email;
17     @NotNull
18     @Size(min = 7, message = "Length must be more than 7")
19     private String password;
20
21     @OneToOne(mappedBy = "user", cascade = CascadeType.ALL)
22     @JsonIgnore
23     private Cart cart;
24 }
25
26 Console Problems Progress X Debug Shell
27 No operations to display at this time.
28
29 Writable Smart Insert 1:1:0 625M of 1020M
  
```

Fig-data transfer objects

## 6. Creation repository:

Creation of repository in spring-boot,



```

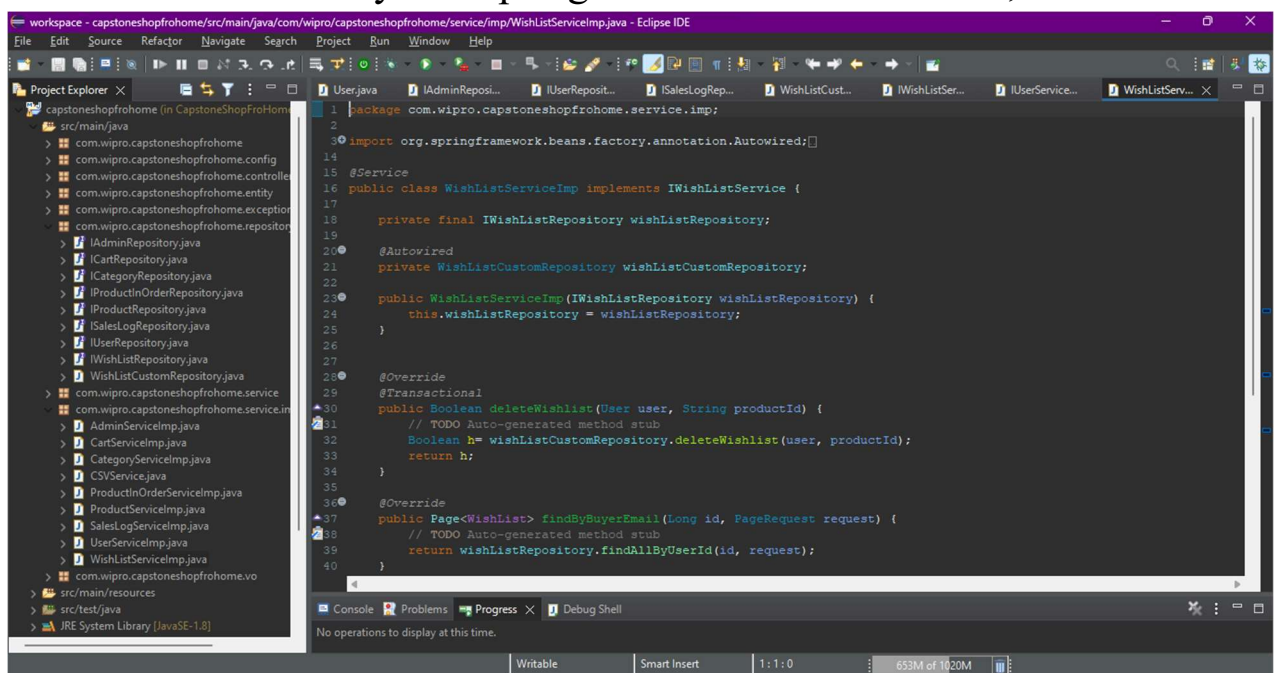
1 package com.wipro.capstoneshopfrohome.repository;
2
3 import javax.persistence.EntityManager;
4
5 @Repository
6 public class WishListCustomRepository {
7
8     @PersistenceContext
9     private EntityManager entityManager;
10
11     @Transactional
12     public Boolean deleteWishlist(User user, String productId) {
13
14         getSession().createNativeQuery("delete from super.wish_list where product_id=:productId and user_id=:userId")
15             .setParameter("productId", productId).setParameter("userId", user.getId()).executeUpdate();
16         return true;
17     }
18
19     @Transactional
20     public Boolean deleteWishlistUserId(User user) {
21
22         getSession().createNativeQuery("delete from super.wish_list where user_id=:userId")
23             .setParameter("userId", user.getId()).executeUpdate();
24         return true;
25     }
26 }

```

fig- repository

## 7. Create Service layer logic:

Creation of service layer in spring-boot as shown in below,



```

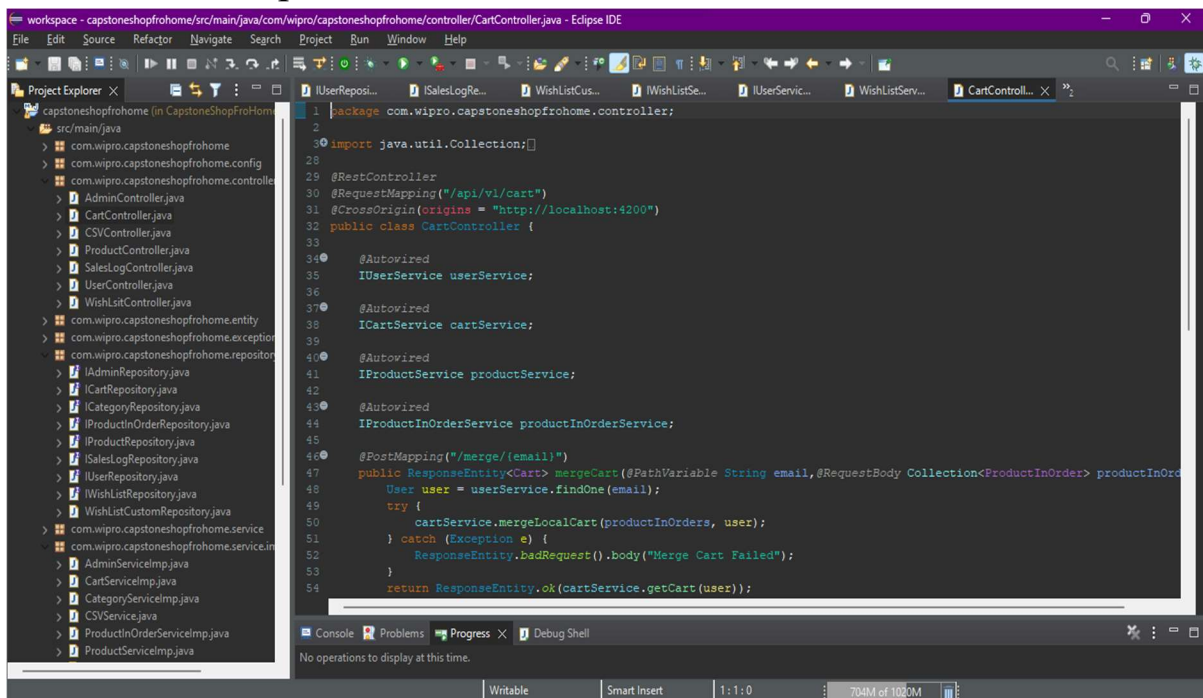
1 package com.wipro.capstoneshopfrohome.service.imp;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4
5 @Service
6 public class WishListServiceImp implements IWishListService {
7
8     private final IWishListRepository wishListRepository;
9
10    @Autowired
11    private WishListCustomRepository wishListCustomRepository;
12
13    public WishListServiceImp(IWishListRepository wishListRepository) {
14        this.wishListRepository = wishListRepository;
15    }
16
17    @Override
18    @Transactional
19    public Boolean deleteWishlist(User user, String productId) {
20        // TODO Auto-generated method stub
21        Boolean h = wishListCustomRepository.deleteWishlist(user, productId);
22        return h;
23    }
24
25    @Override
26    public Page<WishList> findByBuyerEmail(Long id, PageRequest request) {
27        // TODO Auto-generated method stub
28        return wishListRepository.findAllByUserId(id, request);
29    }
30 }

```

Fig- service layer

## 8. Create Controller to direct rest api:

Creation of rest api as shown in below,



```

1 package com.wipro.capstoneshopfrohome.controller;
2
3 import java.util.Collection;
4
5 @RestController
6 @RequestMapping("/api/v1/cart")
7 @CrossOrigin(origins = "http://localhost:4200")
8 public class CartController {
9
10     @Autowired
11     IUserService userService;
12
13     @Autowired
14     ICartService cartService;
15
16     @Autowired
17     IProductService productService;
18
19     @Autowired
20     IProductInOrderService productInOrderService;
21
22     @PostMapping("/merge/{email}")
23     public ResponseEntity<Cart> mergeCart(@PathVariable String email, @RequestBody Collection<ProductInOrder> productInOrder) {
24         User user = userService.findOne(email);
25         try {
26             cartService.mergeLocalCart(productInOrders, user);
27         } catch (Exception e) {
28             ResponseEntity.badRequest().body("Merge Cart Failed");
29         }
30         return ResponseEntity.ok(cartService.getCart(user));
31     }
32 }
  
```

Fig- rest api

## 9. Creating Discount Microservices:

By adding the required dependencies and packages, developed the code as per the requirement.

Add some elementary information in your application. Properties file to set up the connection to your preferred Database. Add your JDBC connection URL, provide a username and password for authentication, and set the ddl-auto property to update. And add server port within the application. Properties by using server.



## AWS deployment:

By the successful execution of backend developed project with the Spring Tool Suite then there is generation of data tables within the triggered database location.

After creation of data tables within the database location, Add admin details with in the admin tables by using the database query INSERT, like **insert into admin values('admin@gmail.com','admin')**.

**1.Choosing A Database:** We select database as per our requirement and select template for the database design and add configurations as required.

The screenshot shows the AWS Database Creation Wizard interface. At the top, there is a search bar and a navigation menu. The main section is titled "Choose a database creation method" and offers two options: "Standard create" (selected) and "Easy create". Below this, the "Engine options" section displays various database engines: Amazon Aurora, MySQL (selected), MariaDB, PostgreSQL, Oracle, and Microsoft SQL Server. The "Edition" section shows "MySQL Community" as the selected option. A "Known issues/limitations" section provides a link to review compatibility issues. The "Version" dropdown is set to "MySQL 8.0.28". At the bottom, the "Templates" section is partially visible, showing a "Choose a sample template to meet your use case" prompt.

Fig-creation of database

### Templates

Choose a sample template to meet your use case.

☐ **Production**  
Use defaults for high availability and fast, consistent performance.

☐ **Dev/Test**  
This instance is intended for development use outside of a production environment.

☒ **Free tier**  
Use RDS Free Tier to run new applications, test applications, or gain experience with Amazon RDS.

### Settings

**DB instance identifier** [Info](#)  
Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the Region.

shopping

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 63 characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

▼ **Credentials Settings**

**Master username** [Info](#)  
Type a login ID for the master user of your DB instance.

root

1 to 16 alphanumeric characters. First character must be a letter.

☐ **Auto generate a password**  
Amazon RDS can generate a password for you, or you can specify your own password.

**Master password** [Info](#)

\*\*\*\*\*

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), ' (single quote), " (double quote), @ (at sign).

**Confirm password** [Info](#)

\*\*\*\*\*

Fig-selection of Template

▼ **Additional configuration**  
Database options, encryption turned on, backup turned on, backtrack turned off, maintenance, CloudWatch Logs, delete protection turned off.

#### Database options

**Initial database name** [Info](#)

shop

If you do not specify a database name, Amazon RDS does not create a database.

**DB parameter group** [Info](#)

default:mysql8.0

**Option group** [Info](#)

default:mysql-8.0

#### Backup

☒ **Enable automated backups**  
Creates a point-in-time snapshot of your database.

⚠ Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to details here.

**Backup retention period** [Info](#)  
The number of days (1-35) for which automatic backups are kept.

7 days

**Backup window** [Info](#)  
The daily time range (in UTC) during which RDS takes automated backups.

☐ Choose a window

☒ No preference

☒ Copy tags to snapshots

#### Encryption

☒ **Enable encryption**

Fig- Configurations of database



## 2.Creating S3 Bucket:

create a bucket in Amazon S3 using the AWS Management Console. Every object in Amazon S3 is stored in a *bucket*. Before you store data in Amazon S3, you must create a bucket.

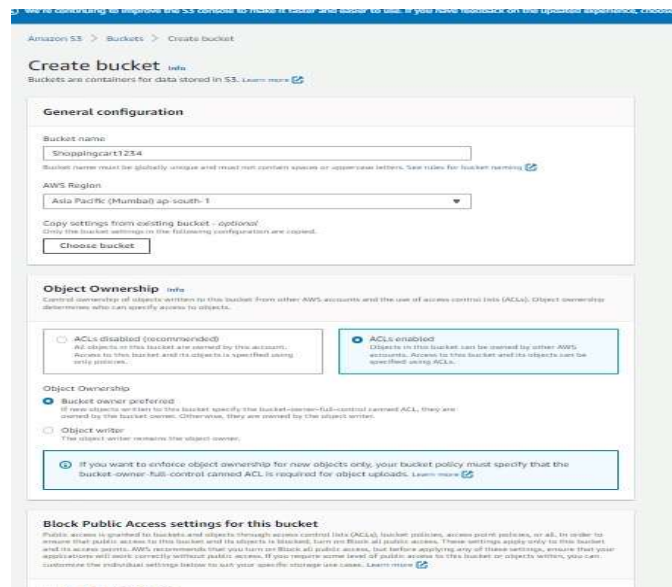


Fig- Creating Bucket

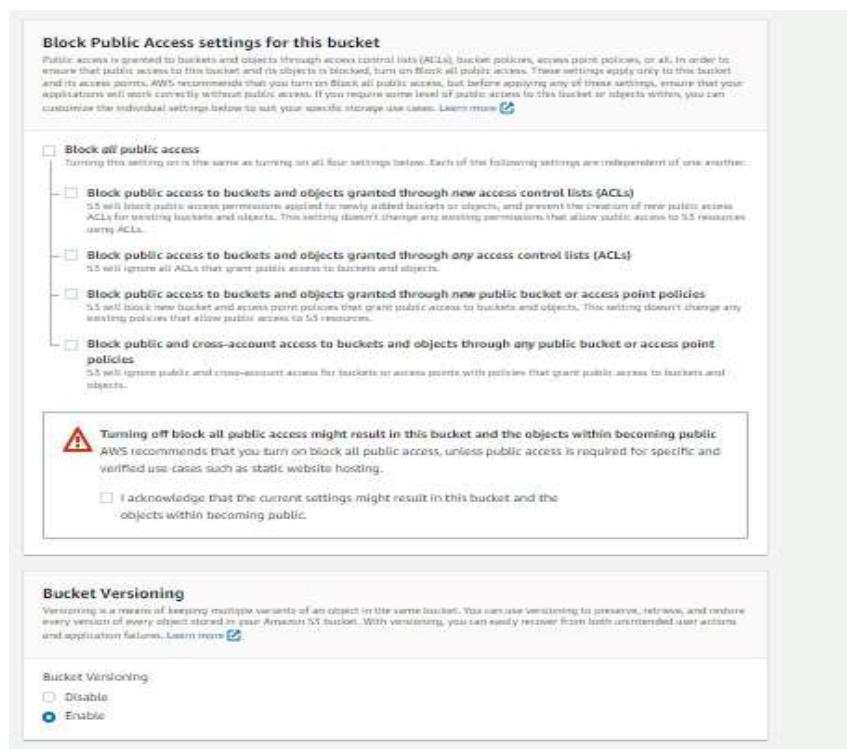
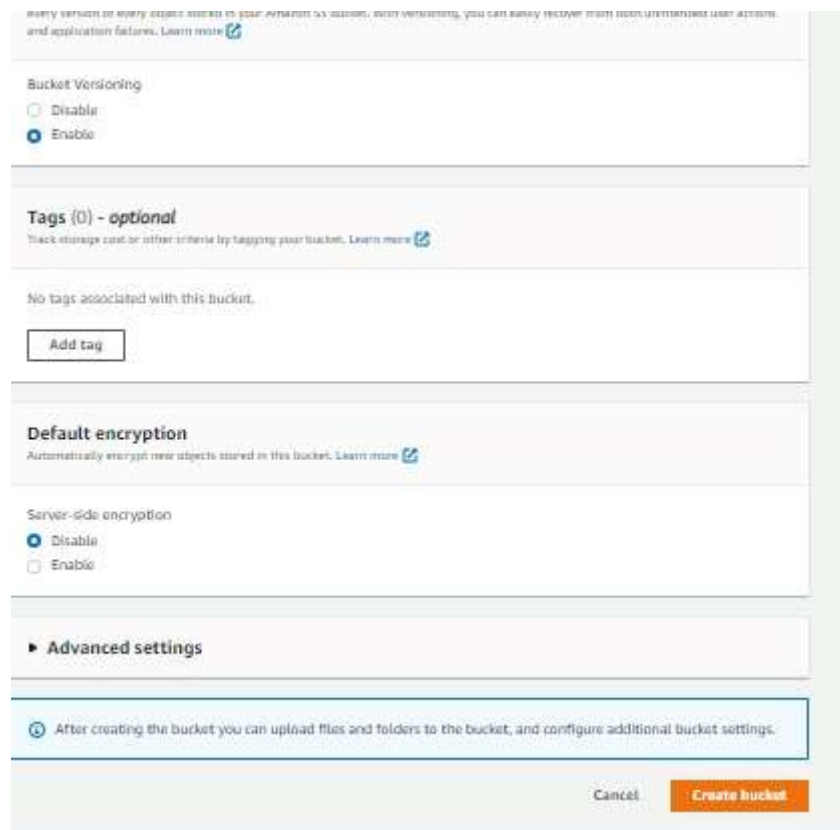


Fig- Accessing of Bucket



every version of every object stored in your bucket is retained. When versioning is enabled, you can easily recover from accidental deletions, overwrites, and application failures. [Learn more](#)

**Bucket Versioning**

☐ Disable

☒ Enable

**Tags (0) - optional**

Track storage cost or other criteria by tagging your bucket. [Learn more](#)

No tags associated with this bucket.

[Add tag](#)

**Default encryption**

Automatically encrypt new objects stored in this bucket. [Learn more](#)

**Server-side encryption**

☒ Disable

☐ Enable

► **Advanced settings**

ⓘ After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.

[Cancel](#) [Create bucket](#)

Fig- Optional configurations of bucket

### 3. Creating elastic beanstalk environment:

An AWS Elastic Beanstalk *environment* is a collection of AWS resources running an application version. You can deploy multiple environments when you need to run multiple versions of an application. For example, you might have development, integration, and production environments.

Elastic Beanstalk > Create environment

### Create a web server environment

Launch an environment with a sample application or your own code. By creating an environment, you allow Amazon Elastic Beanstalk to manage Amazon Web Services resources and permissions on your behalf. [Learn more](#)

#### Application information

Application name

Up to 100 Unicode characters, not including forward slash (/).

► Application tags (optional)

#### Environment information

Choose the name, subdomain, and description for your environment. These cannot be changed later.

Environment name

Domain  
 .ap-south-1.elasticbeanstalk.com

✓ root.ap-south-1.elasticbeanstalk.com is available.

Description

Fig- web server creation

### Platform

☒ Managed platform  
 Platforms published and maintained by Amazon Elastic Beanstalk. [Learn more](#)

☐ Custom platform  
 Platforms created and owned by you.

Platform

Platform branch

Platform version

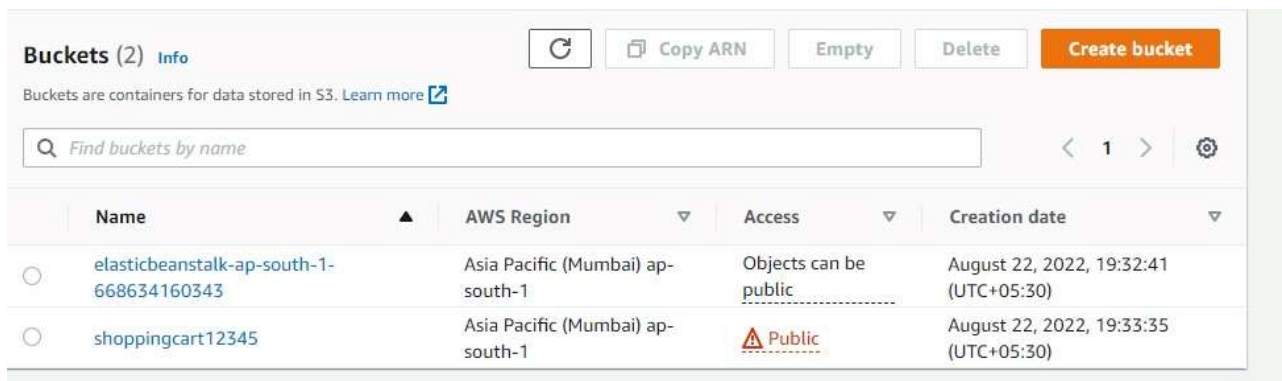
### Application code

☒ Sample application  
 Get started right away with sample code.

☐ Existing version  
 Application versions that you have uploaded for shoppingcart.

☐ Upload your code  
 Upload a source bundle from your computer or copy one from Amazon S3.

Fig- creating an environment



**Buckets (2)** [Info](#) ↻ Copy ARN Empty Delete Create bucket

Buckets are containers for data stored in S3. [Learn more](#)

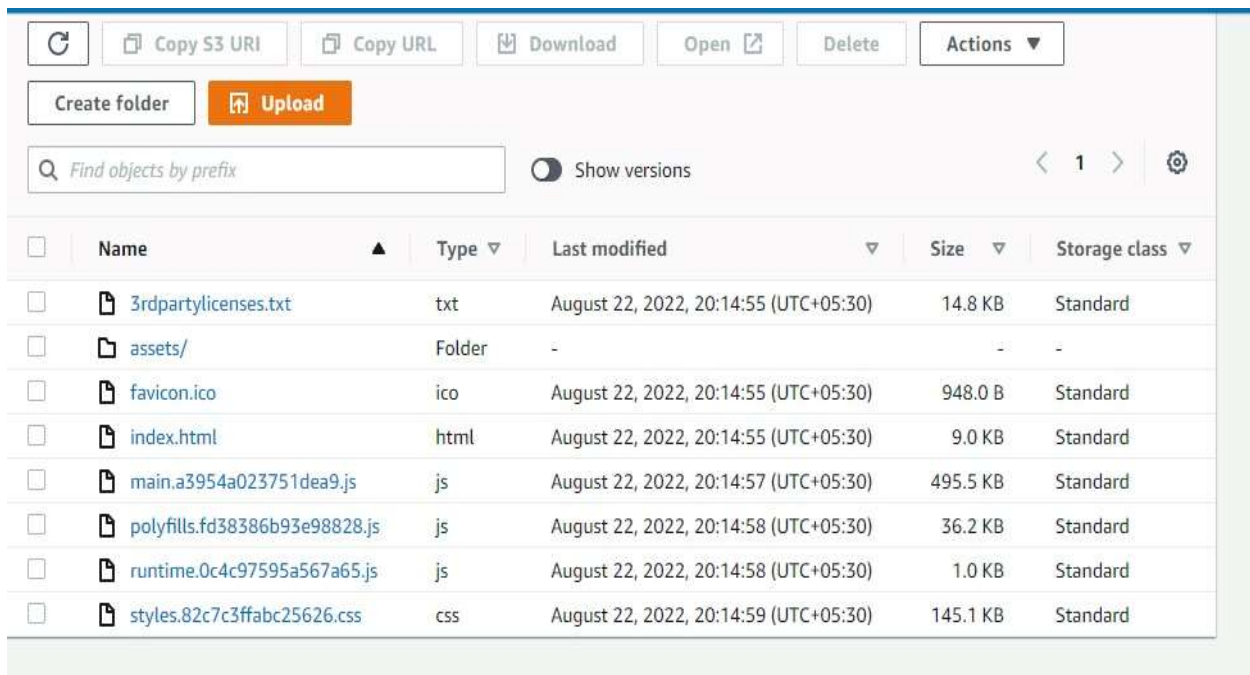
< 1 > ⚙️

	Name ▲	AWS Region ▼	Access ▼	Creation date ▼
<input type="radio"/>	<a href="#">elasticbeanstalk-ap-south-1-668634160343</a>	Asia Pacific (Mumbai) ap-south-1	Objects can be public	August 22, 2022, 19:32:41 (UTC+05:30)
<input type="radio"/>	<a href="#">shoppingcart12345</a>	Asia Pacific (Mumbai) ap-south-1	<span>Public</span>	August 22, 2022, 19:33:35 (UTC+05:30)

Fig- created elasticbeanstalk

### 3. Uploading data in s3 bucket:

When you upload a file to Amazon S3, it is stored as an S3 object. Objects consist of the file data and metadata that describes the object. You can have an unlimited number of objects in a bucket. You can upload any file type—images, backups, data, movies, etc.—into an S3 bucket. The maximum size of a file that you can upload by using the Amazon S3 console is 160 GB. To upload a file larger than 160 GB, use the AWS CLI, AWS SDK, or Amazon S3 REST API.

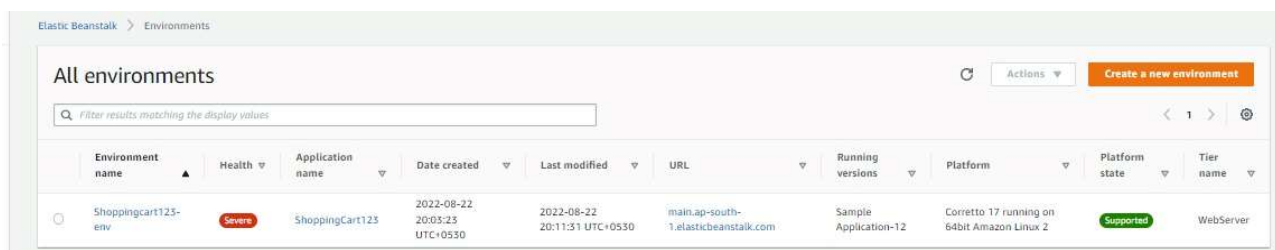


	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	3rdpartylicenses.txt	txt	August 22, 2022, 20:14:55 (UTC+05:30)	14.8 KB	Standard
<input type="checkbox"/>	assets/	Folder	-	-	-
<input type="checkbox"/>	favicon.ico	ico	August 22, 2022, 20:14:55 (UTC+05:30)	948.0 B	Standard
<input type="checkbox"/>	index.html	html	August 22, 2022, 20:14:55 (UTC+05:30)	9.0 KB	Standard
<input type="checkbox"/>	main.a3954a023751dea9.js	js	August 22, 2022, 20:14:57 (UTC+05:30)	495.5 KB	Standard
<input type="checkbox"/>	polyfills.fd38386b93e98828.js	js	August 22, 2022, 20:14:58 (UTC+05:30)	36.2 KB	Standard
<input type="checkbox"/>	runtime.0c4c97595a567a65.js	js	August 22, 2022, 20:14:58 (UTC+05:30)	1.0 KB	Standard
<input type="checkbox"/>	styles.82c7c3ffabc25626.css	css	August 22, 2022, 20:14:59 (UTC+05:30)	145.1 KB	Standard

Fig-Uploading data into bucket

## 5.Uploading data into Environment:

Here we upload data into environment as,

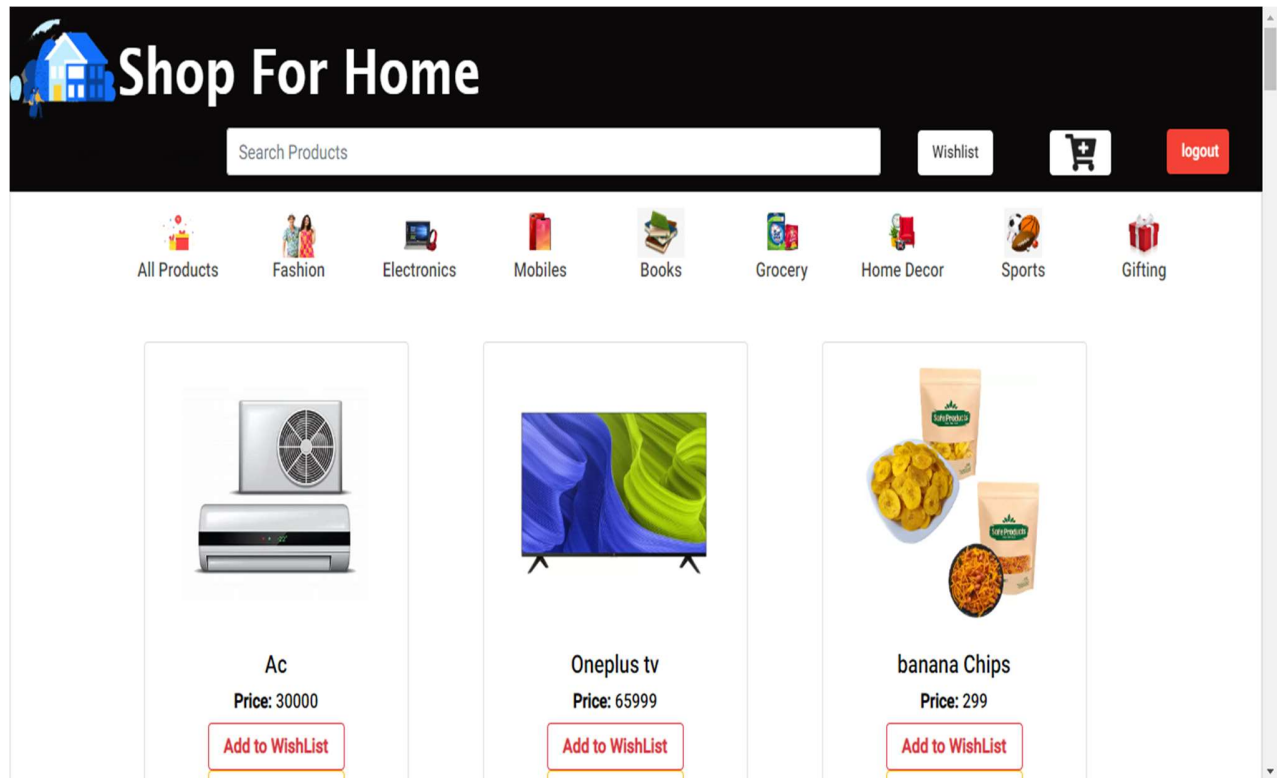


Environment name	Health	Application name	Date created	Last modified	URL	Running versions	Platform	Platform state	Tier name
Shoppingcart123-env	Steady	ShoppingCart123	2022-08-22 20:03:23 UTC+0530	2022-08-22 20:11:31 UTC+0530	main.ap-south-1.elasticbeanstalk.com	Sample Application-12	Corretto 17 running on 64bit Amazon Linux 2	Supported	WebServer

Fig- Environment with data uploaded

# OUTPUT

**Final aws uploaded website :**



**Fig-Home Page**



### User Login

Enter email here \*

Email

Enter password here \*

Password

Login

[New User? Click to SignUp!!](#)

**Fig- login page**



### User Registration

Enter name here \*

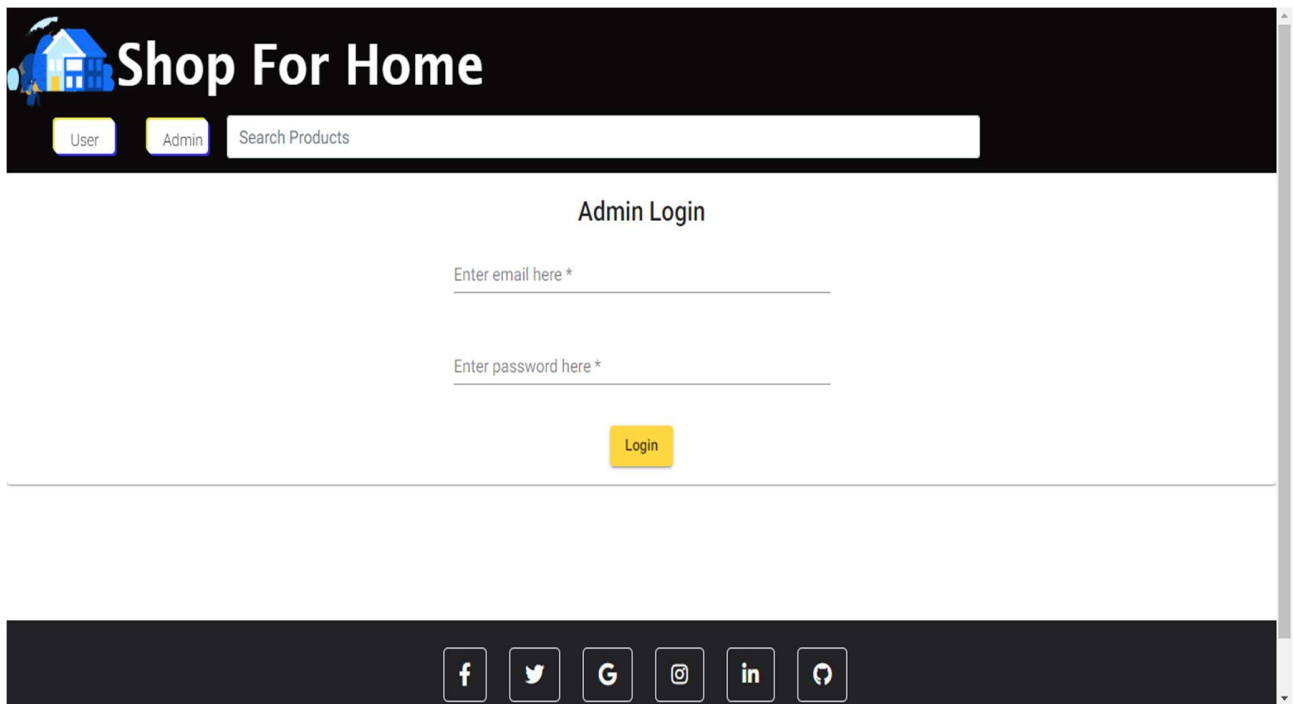
Enter email here \*

Enter Password here \*

SignUp

[Already Registered? Click to SignIn!!](#)

**Fig-Registration Page**



**Shop For Home**

User Admin Search Products

### Admin Login

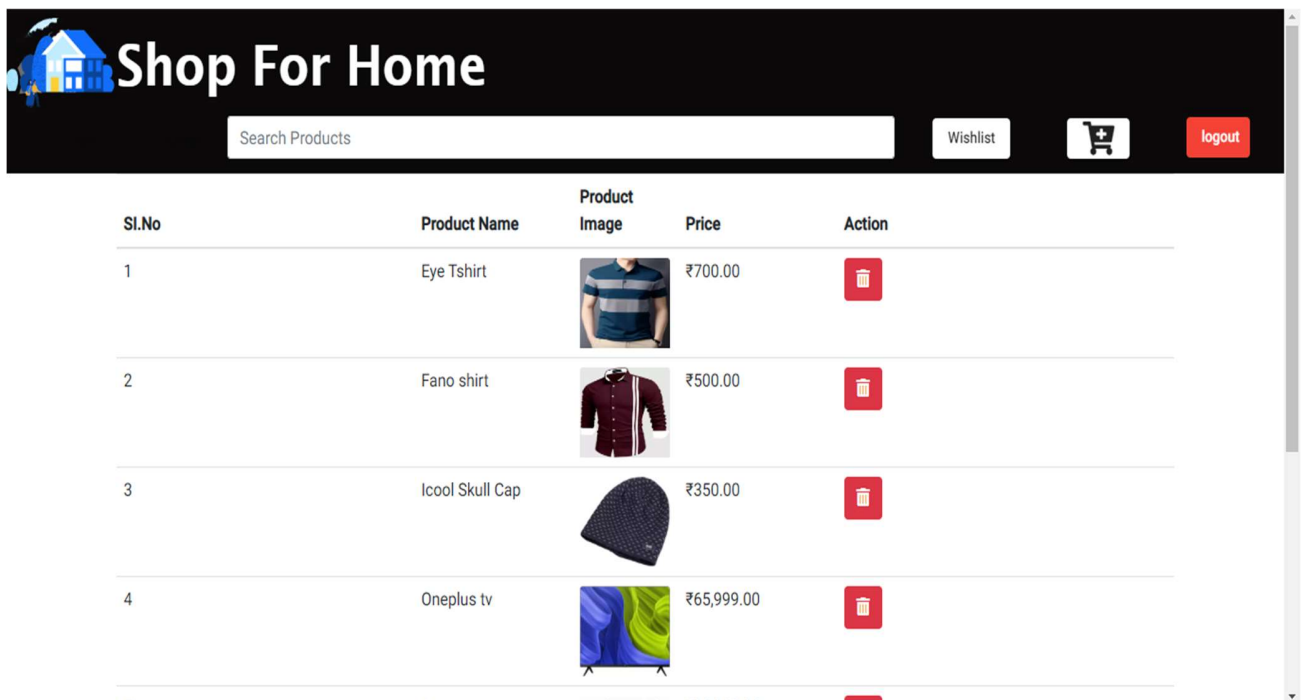
Enter email here \*

Enter password here \*


Login









f t G i in

**Fig- Admin Page**




**Shop For Home**

Search Products Wishlist  Logout


Sl.No	Product Name	Product Image	Price	Action
1	Eye Tshirt		₹700.00	
2	Fano shirt		₹500.00	
3	Icool Skull Cap		₹350.00	
4	Oneplus tv		₹65,999.00	





**Fig-Wishlist Page**





# Shop For Home

[Wishlist](#)

[logout](#)

Sr.No	Product Name	Product Image	Price	Quantity	Total	Action
1	Mi 5A tv		₹45,999.00	- 1 +	45999	
2	Oneplus tv		₹65,999.00	- 1 +	65999	

[Shop More](#)

**Grand Total :**  
**₹111,998.00**

[Proceed to Check Out](#)

**Fig-Cart page**

## **Conclusion:**

E-commerce is continuously progressing and is becoming more and more important to businesses as technology continues to advance and is something that should be taken advantage of and implemented. From the inception of the Internet and e-commerce, the possibilities have become endless for both businesses and consumers. Creating more opportunities for profit and advancements for businesses, while creating more options for consumers.

In general, today's businesses must always strive to create the next best thing that consumers will want because consumers continue to desire their products, services etc. to continuously be better, faster, and cheaper. In this world of new technology, businesses need to accommodate to the new types of consumer needs and trends because it will prove to be vital to their business' success and survival.

However, just like anything else, e-commerce has its disadvantages including consumer uncertainties, but nothing that cannot be resolved or avoided by good decision-making and business practices. There are several factors and variables that need to be considered and decided upon when starting an e-commerce business. Some of these include types of e-commerce, marketing strategies, and countless more. If the correct methods and practices are followed, a business will prosper in an e-commerce setting with much success and profitability.

