



CAPSTONE PROJECT

SHOP_FOR_HOME

MENTOR: NEERAJ KUMAR KHERIA

BATCH-10

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INTRODUCTION

- The meaning of online shopping is the process of buying goods and services from merchants over the Internet.
- Online Shopping makes easier for customers to choose different variety of product which they want, that the reason online shopping popularly used nowadays



PROBLEM STATEMENT

Shop For Home 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 cloud platforms and wants their own web application.

There are 2 users on the applications:

- User
- Admin

USER SPECIFICATIONS



USER STORIES:

- As a user I should be able to login, Logout and Register into the application.
- As a user I should be able to see the products in different categories.
- As a user I should be able to sort the products.
- As a user I should be able to add the products into the shopping cart.
- As a user I should be able to increase or decrease the quantity added in the cart.
- As a user I should be able to add "n" number of products in the cart.
- 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.
- As a user I should get different discount coupons.

ADMIN SPECIFICATIONS



ADMIN STORIES:

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

INSTRUCTIONS

- Please use a folder on server to upload the images
- Please share the database structure in the .sql file
- Please create a separate micro service for reports and discount coupons.
- Please use separate port to deploy the Angular UI and Spring Boot Microservice
- Please use the UI designing tool like(Bootstrap or Material) to make your UI better
- Please use Material UI to create the UI.
- Application should be deployed on EC2 instances in an autoscaling group behind an application load balancer. A user-data script can be used to install the application on the instances by fetching it from S3 buckets

TECHNOLOGIES USED:

- HTML and CSS: Page has been designed using HTML and CSS in Visual Studio Code
- ☐ Java Script : All the validation task and animations has been developed by Java Script
- Spring Boot: All the business and backend API logic has been implemented in Java Script
- POSTGRESQL: POSTGRESQL Database has been used as database for the project
- Angular: All the Frontend logic has been implemented over Angular and we used angular CLI for it
- Visual Studio Code : For Angular IDE, we have used Visual Studio Code.

















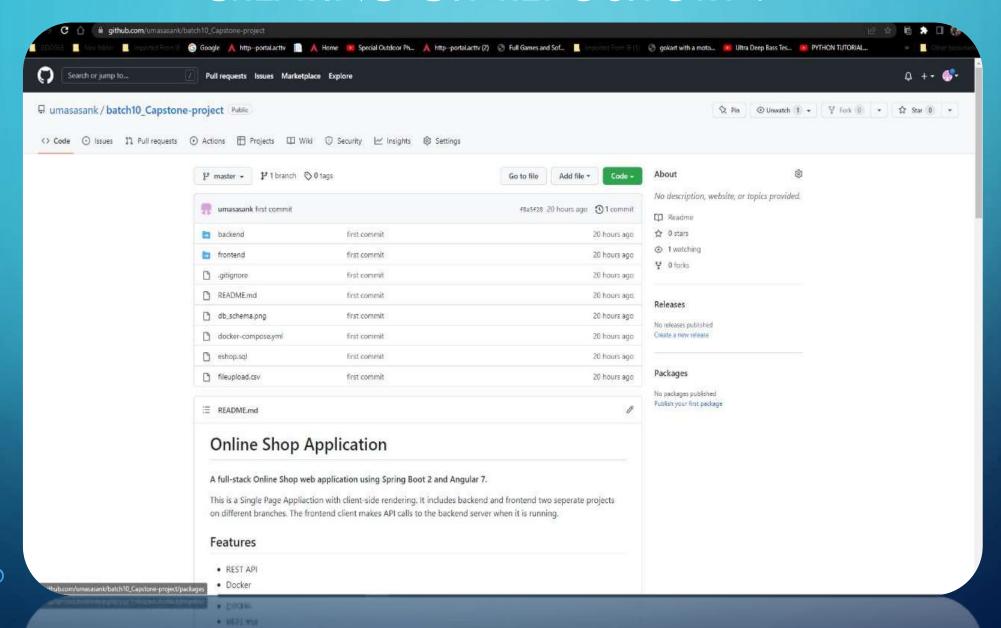
SPRINT 1 OBJECTIVES:

- Create git repository
- Create database schema (all tables along with their relationships)
- Create entities in spring
- Create Microservices based structure
- CRUD on User and Products
- Create an eCommerce Template in angular (Static only) to hold images and products lists.
- Develop Search Functionality in Angular
- Bulk upload implementation

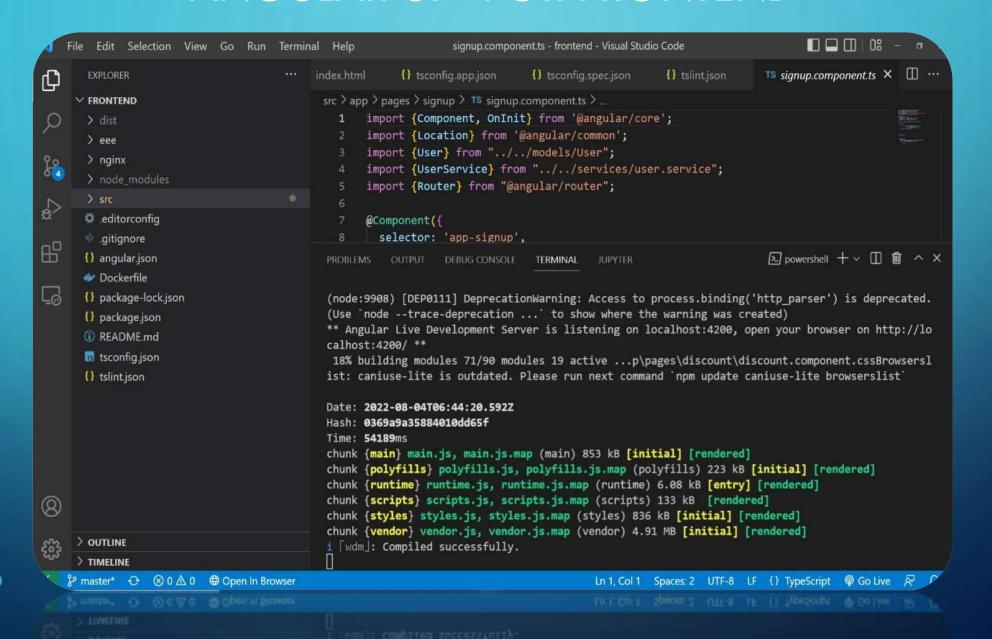
SPRINT 2 OBJECTIVES:

- Cart Option
- Stock and Sales reports
- Create Data Transfer objects
- Create repository
- Create Service layer logic
- Create Controller to direct rest api
- Create Discount Microservice

CREATING GIT REPOSITORY:



ANGULAR UI - FOR FRONTEND



CREATING CONTROLLER TO DIRECT REST API USING SPRING BOOT — FOR BACKEND

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                                            package eshop.homedecor.shopapi;
 RestApiDemo_1 [boot] [devtools]
RestApiDemo 2 [boot] [devtools]
 shop-api (boot)

√ := src/main/java

                                       3*import org.springframework.boot.SpringApplication;
  # eshop.homedecor.shopap
                                        12
    ShopApiApplication java

    # eshop homedecor.shopapi.api

                                        13 @SpringBootApplication
     CartController.java
     (A) CategoryController.jav
                                        14 public class ShopApiApplication {
    CSVController.iava
    > DiscountController.iava
                                        15€
                                                    @Bean
    > EmailController.java
    OrderController.java
                                                   public PasswordEncoder passwordEncoder() {
                                        16
    ProductController.iava

→ In UserController.iava

                                                          return new BCryptPasswordEncoder();
                                        17
    WishListController.jeva
       rest-client.env.ison
                                        18

    # eshop homedecor, shopepi, entity

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    Cartjeve
                                        20-
                                                   @Bean
    EmailDetails.ieva
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                                                   public WebMvcConfigurer corsConfigurer() {
     OrderMain, iava
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     ProductCategory.javi
                                                          return new WebMvcConfigurerAdapter()
                                       222°
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    ProductinOrder.sava
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                                                                 @Override
                                                                                                                                                                         passwordEncoder(): PasswordEncoder
   ) Di Userijava

✓ ③ corsConfigurer(): WebMvelConfigurer
    → WishList.java
                                                                 public void addCorsMappings(CorsRegistry registry) {
                                                                                                                                                                        new WebMvcConfigurerAdapter() (...)
                                       -24
  > # eshop homedecor shopepi enums
   a eshop homedecor.shopapi.exception
                                                                        registry.addMapping("/**");
                                        25

    # eshop.homedecor.shopepi.form

  ) # eshop.homedecor.shopapi.repository
                                        26
                                        27
       りある 3 日日日日 2 □ 2 ・アル・
Type tags, projects, or working set names to match (incl. * and ? wild
                                                   public static void main(String[] args) {
                                        30
                                                          SpringApplication.run(ShopApiApplication.class, args);
                                        31
                                        32
                                        22
                                       ShopApiApplication [Java Application] C:\Users\my/, p2\poo(\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86, 64_18.0.1.v20220515-1614\jre\bin\javaw.exe (03-Aug-2022, 9-53:59 am) [pid: 16528]
                                                                                                                               main] .s.d.r.c.RepositoryConfigurationDel
                                       2022-08-03 09:54:02.981
                                                                                                                                         .s.d.r.c.RepositoryConfigurationDe
```

SPRING BOOT CONSOLE

```
:: Spring Boot :: (v2.2.0.BUILD-SNAPSHOT)
2022-08-03 09:54:01.526
                         INFO 16528 ---
                                                    main] e.homedecor.shopapi.ShopApiApplication
                                                                                                    : Starting ShopAp
                                                    main] e.homedecor.shopapi.ShopApiApplication
                                                                                                    : No active profi
2022-08-03 09:54:01.533
                         INFO 16528 ---
                                                    main] .s.d.r.c.RepositoryConfigurationDelegate :
                                                                                                     Bootstrapping S
2022-08-03 09:54:02.854
                         INFO 16528 ---
2022-08-03 09:54:02.981
                                                    main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring
                         INFO 16528 ---
                                                    main] trationDelegate$BeanPostProcessorChecker
                                                                                                     Bean 'org.sprin
2022-08-03 09:54:03.381
                         INFO 16528 ---
                                                    mainl o.s.b.w.embedded.tomcat.TomcatWebServer
2022-08-03 09:54:03.754
                         INFO 16528 ---
                                                                                                    : Tomcat initiali
2022-08-03 09:54:03.764
                         INFO 16528 ---
                                                    main] o.apache.catalina.core.StandardService
                                                                                                    : Starting servic
                                                    main] org.apache.catalina.core.StandardEngine
                                                                                                    : Starting Servle
2022-08-03 09:54:03.764
                         INFO 16528 ---
2022-08-03 09:54:03.886
                         INFO 16528 ---
                                                    main] o.a.c.c.C.[Tomcat].[localhost].[/api]
                                                                                                    : Initializing Sp
                                                                                                    : Root WebApplica
                         INFO 16528 ---
                                                    main] o.s.web.context.ContextLoader
2022-08-03 09:54:03.886
                         INFO 16528 ---
                                                    main] o.hibernate.jpa.internal.util.LogHelper
2022-08-03 09:54:04.142
                                                                                                     HHH000204: Proc
                                                    main | org.hibernate.Version
                         INFO 16528 ---
                                                                                                    : HHH000412: Hibe
2022-08-03 09:54:04.271
                         INFO 16528 ---
                                                    main o.hibernate.annotations.common.Version
2022-08-03 09:54:04.514
                                                                                                    : HCANN000001: Hi
                                                    main] org.hibernate.dialect.Dialect
2022-08-03 09:54:04.658
                         INFO 16528 ---
                                                                                                    : HHH000400: Usin
                                                    main] o.h.e.t.j.p.i.JtaPlatformInitiator
2022-08-03 09:54:05.496
                         INFO 16528 ---
                                                                                                    : HHH000490: Usin
                                                    main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA
2022-08-03 09:54:05.502
                         INFO 16528 ---
2022-08-03 09:54:06.227
                         WARN 16528
                                                    main] JpaBaseConfiguration$JpaWebConfiguration :
                                                                                                     spring.jpa.open
                                                    main] o.s.s.web.DefaultSecurityFilterChain
 022-08-03 09:54:06.656
                         INFO 16528
                                                                                                    : Creating filter
                                                                                                    Creating falter
                                                          JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open
                                                          J. LocalContainerEntityManagerFactoryBean
                                                    main] o.h.e.t.j.p.1.JtaPlatforminitiator
                                                                                                    HHH000490: Usin
```

DATABASE SCHEMA

product_category

category_id: int4 category_name: ... category_type: in... create_time: time... update_time: time...

product_info

product_id: varch...
category_type: in...
create_time: time...
product_descripti...
product_icon: var...
product_name: v...
product_price: n...
product_status: i...
product_stock: int4
update_time: tim...

cart

user_id: int8

users

id: int8 active: bool address: varchar(... email: varchar(25... name: varchar(25... password: varcha... phone: varchar(2... role: varchar(255)

product_in_order

id: int8
category_type: int4
count: int4
product_description...
product_icon: varch...
product_id: varchar(...
product_name: varc...
product_price: num...
product_stock: int4
cart_user_id: int8
order_id: int8

order_main

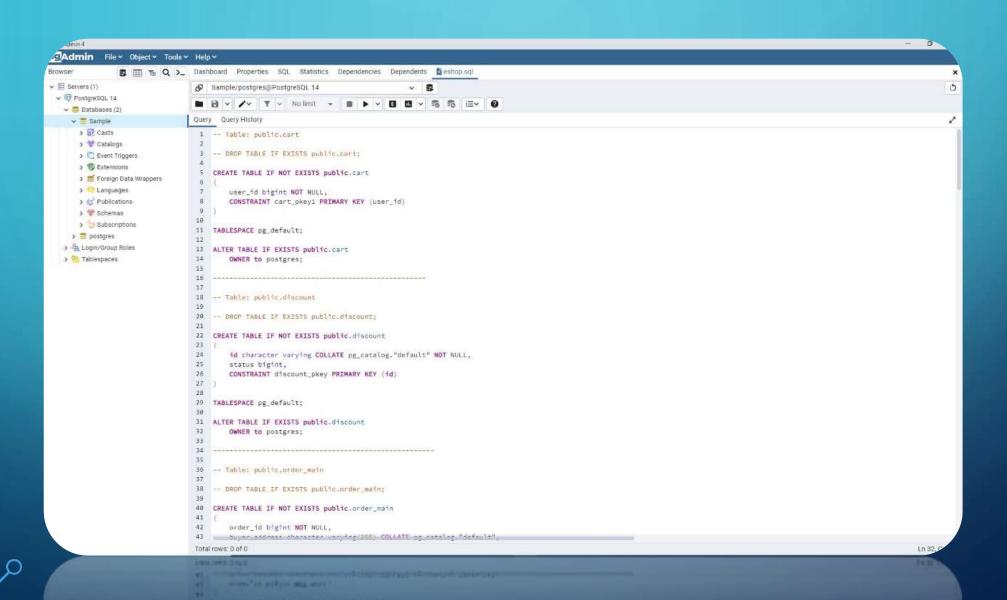
porder_id: int8
buyer_address: v...
buyer_email: varc...
buyer_name: var...
buyer_phone: var...
create_time: time...
order_amount: n...
order_status: int4
update_time: time...

password series phone series

product_stock mile cart_user_id mile order_id mile

update time to

POSTGRE SQL WORKBENCH



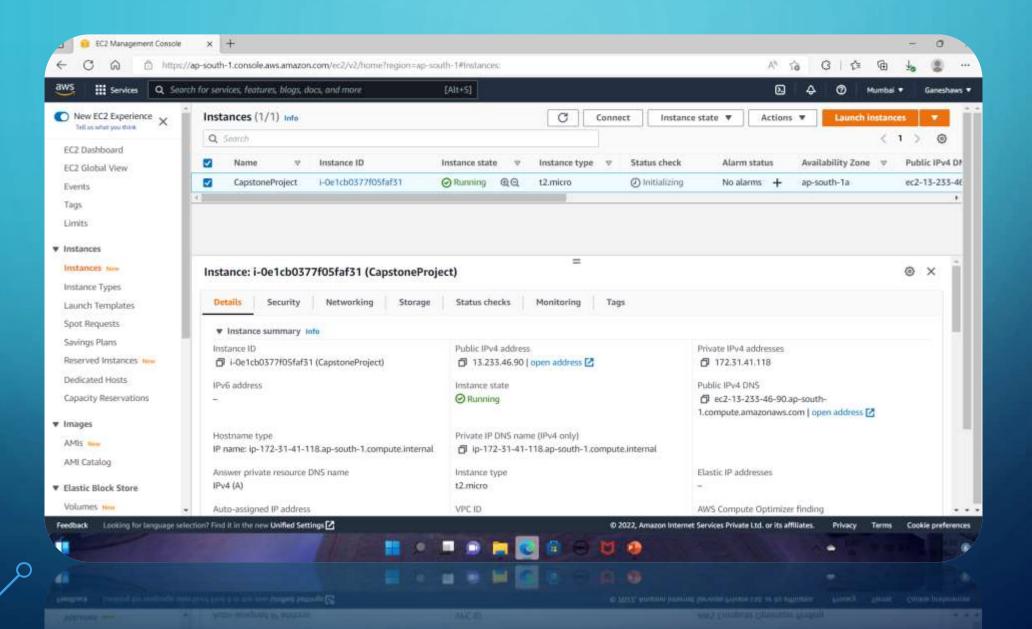
SCRIPT

```
-Product Info
INSERT INTO "public". "product_category" VALUES (2147483641, 'Idols & Figurines', 0, '2022-00-23 23:03:26', '2022-00-23 23:03:26');
INSERT INTO "public". "product category" VALUES (2147483642, 'Wall Sculptures', 1, '2022-06-23 23:03:26', '2022-06-23 23:03:26');
INSERT INTO "public". "product_category" VALUES (2147483643, 'Paintings', 2, '2022-06-23 23:03:26', '2022-06-23 23:03:26');
INSERT INTO "public". "product_category" VALUES (2147483644, 'Artificial Flora', 3, '2822-86-23 23:83:26', '2822-86-23 23:83:26');
--Product
INSERT INTO "public". "product info" VALUES ('IF001'. 0. '2022-06-23 23:03:26', 'Showpieces Metal Table Top Gold Ornament for Showcase', 'https://m.media-amazon.com/images/I/719t6YQh9WL. SX679 .jpg', 'Space
INSERT INTO "public", "product_info" VALUES ('IF002', 0, '2022-06-23 23:03:26', 'Feng Shui Items for Positive Energy', 'https://m.media-amazon.com/images/I/91qV1v1Vh55._SX679_.jpg', 'Seven Chakra Crystal Tree
INSERT INTO "public". "product_info" VALUES ('IF003', 0, '2022-06-23 23:03:26', 'Statue Showpiece for Home Decor Diwali Decoration and Gifting', 'https://m.media-amazon.com/images/I/91FwdCVfcJL._SX679_.jpg',
INSERT INTO "public", "product_info" VALUES ('WS001', 1, '2022-06-23 23:03:26', 'Handmade Hand-Painted Wall Hanging', 'https://m.media-amazon.com/images/I/614huT-aHol._UX679_.jpg', 'Hanging Fish for Room Deco
INSERT INTO "public", "product_info" VALUES ('WS002', 1, '2022-06-23 23:03:26', 'Multi Color Wall Arts for Home', 'https://m.media-amazon.com/images/I/71VP2phVneL._SX679_.jpg', 'Metal Wall Decor Wall Hanging
INSERT INTO "public". "product_info" VALUES ('WS003', 1, '2022-06-23 23:03:26', 'Metal Lord Ganesha in Red Dhoti on Green Leaf Wall Hanging', 'https://m.media-amazon.com/images/I/71aXRJA2gEL._SX522_.jpg', 'M
INSERT INTO "public", "product info" VALUES ('PAGG1', 2, '2022-06-23 23:03:26', 'Fine Art Home Decor Metal Art & Craft Bird Ring Small with Led Light', 'https://m.media-amazon.com/images/I/81+mbR9nw-L_SX679
INSERT INTO "public". "product_info" VALUES ('PA002', 2, '2022-06-23 23;03:26', 'World Decor Led Couple Peacock Birds Metal Wall Art - Big, Multicolour', 'https://m.media-amazon.com/images/I/61LsEgD7uTL._SX6
INSERT INTO "public". "product info" VALUES ('PAGGS', 2, '2022-86-23 23:03:26', 'Fine Art Home Decor Metal & MDF Art & Craft Bike Panel', 'https://m.media-amazon.com/images/I/81wdvBLTBkL. SX679 .jpg', 'Home
INSERT INTO "public", "product_info" VALUES ('AF001', 3, '2022-06-23 23:03:26', 'unique flower- Fresh Flowers Bouquet Arrangement Indoor Plant-orchid bouquet', 'https://images-eu.ssl-images-amazon.com/images
INSERT INTO "public". "product_info" VALUES ('AF002', 3, '2022-06-23 23:03:26', 'Blooming Floret Artificial Cherry Orchid Flower Bunch', 'https://m.media-amazon.com/images/I/81MCELCKR4L. SY879 .jpg', 'Artificial Cherry Orchid Flower Bunch', 'https://m.media-amazon.com/images/I/81MCELCKR4L. SY879 .jpg', 'https://
INSERT INTO "public". "product_info" VALUES ('AF003', 3, '2022-06-23 23:03:26', 'Diwali Wedding Party Garden Craft Wall Home Door Decoration Theme', 'https://m.media-amazon.com/images/I/715VQFzLwRL._SX679_.jj
INSERT INTO "public". "product info" VALUES ('AF004', 3. '2022-06-23 23:03:26', 'Diwali Wedding Party Garden Craft Wall Home Door Decoration Theme', 'https://m.media-amazon.com/images/I/S1AqdNJeGfL. SY879 .i
```

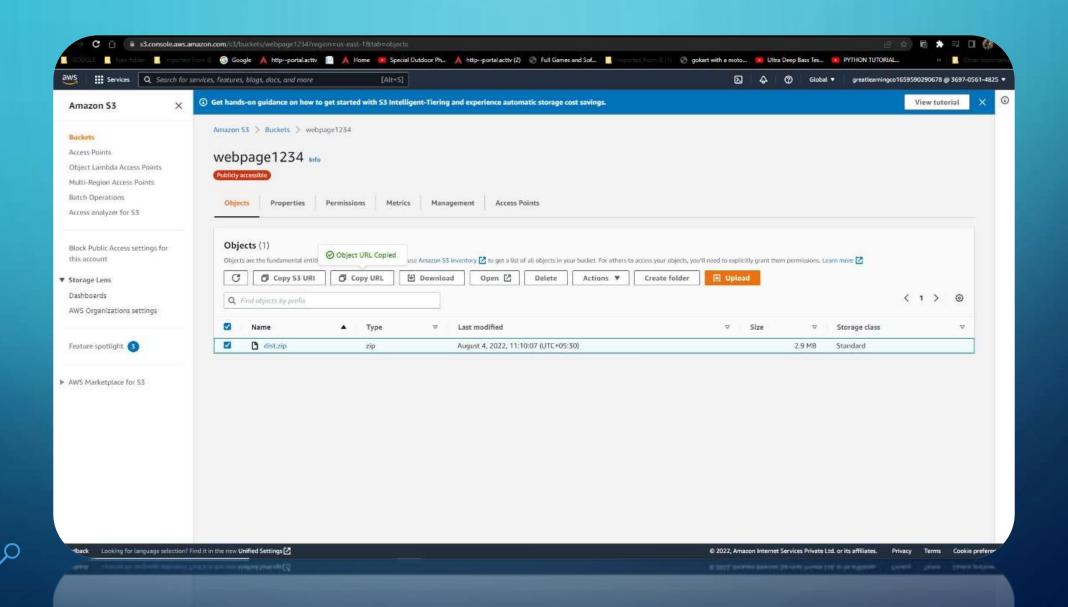
WSERT INTO "public". "users" VALUES (2147483645, true, 'Plot 2, Shivaji Nagar, Benagluru', 'admin@eshop.com', 'Admin', '\$2a\$10\$LiBw043TpKU08ZgCxNkWJueqZlqxoUBsX2Wclzk8JQ3Ejb9MNu2Xy', '1234567890', 'ROLE MA

-Users

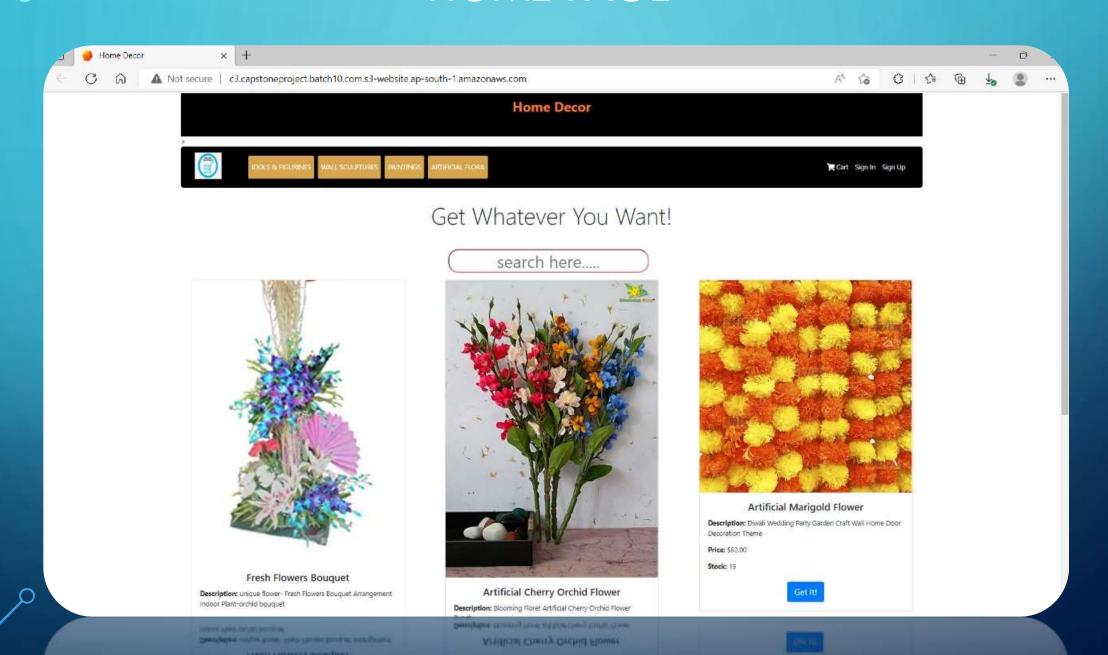
AWS CONSOLE – EC2 INSTANCE



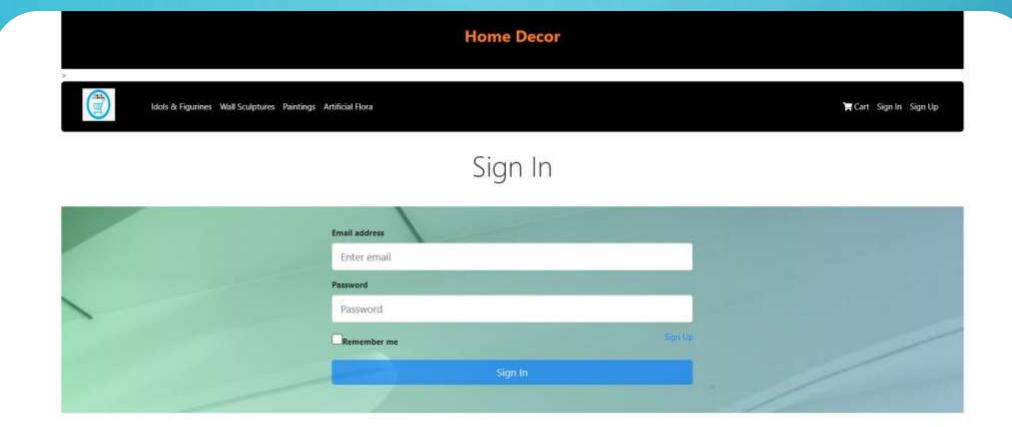
PUSHING DATA INTO S3 - CREATING BUCKET



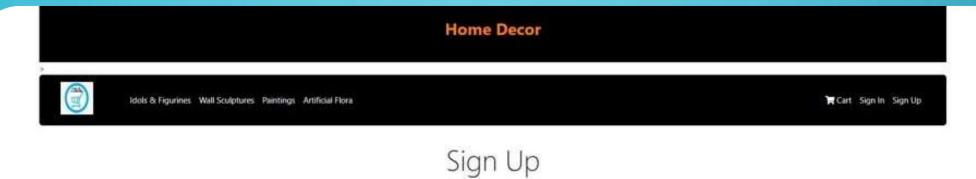
HOME PAGE

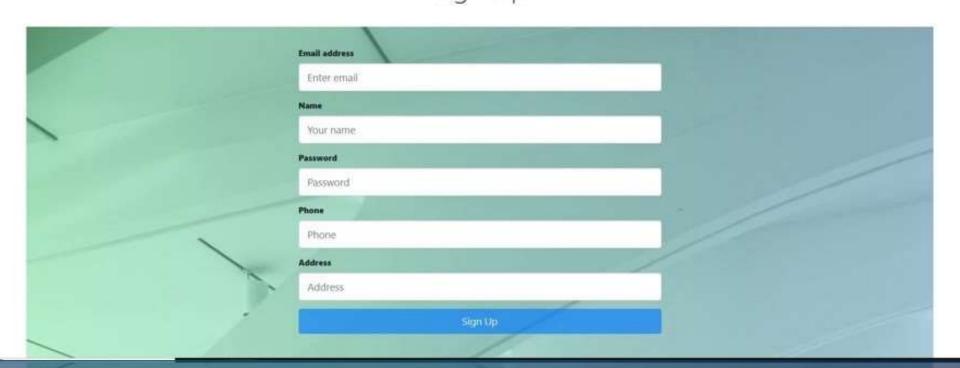


USER LOGIN

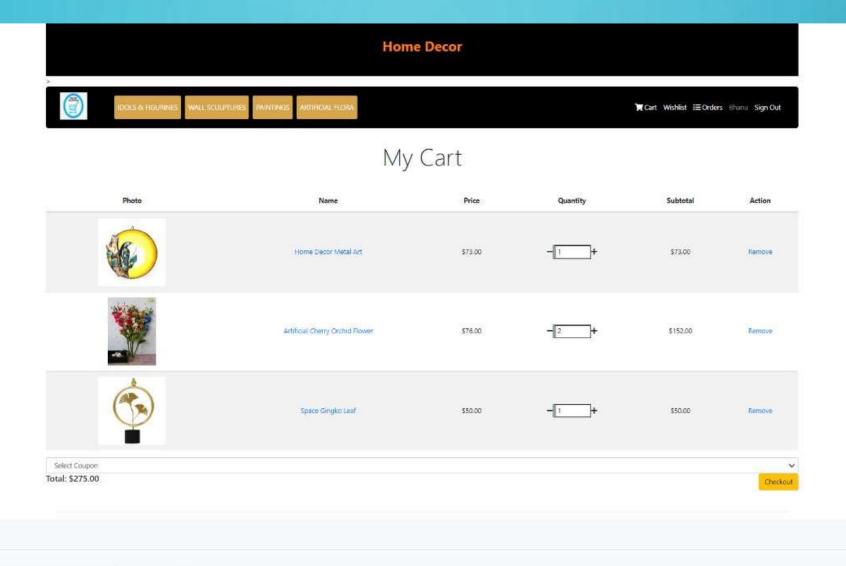


USER REGISTRATION



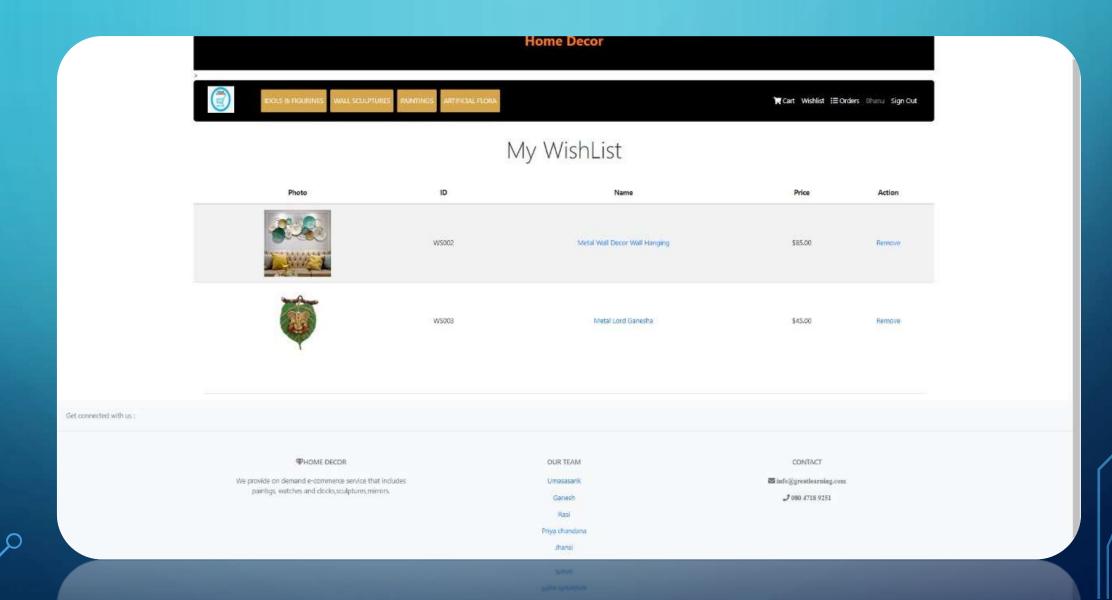


USERS PAGE

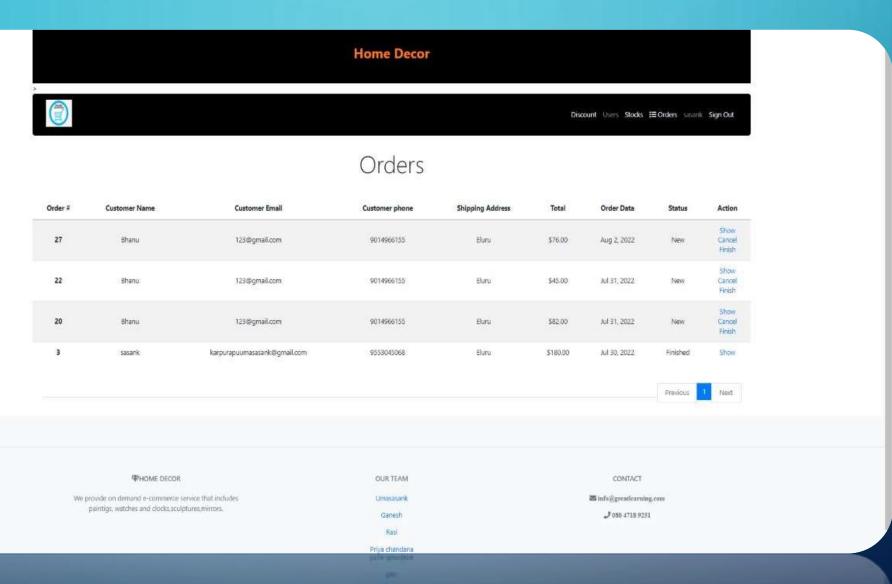


Get connected with us:

USERS PAGE

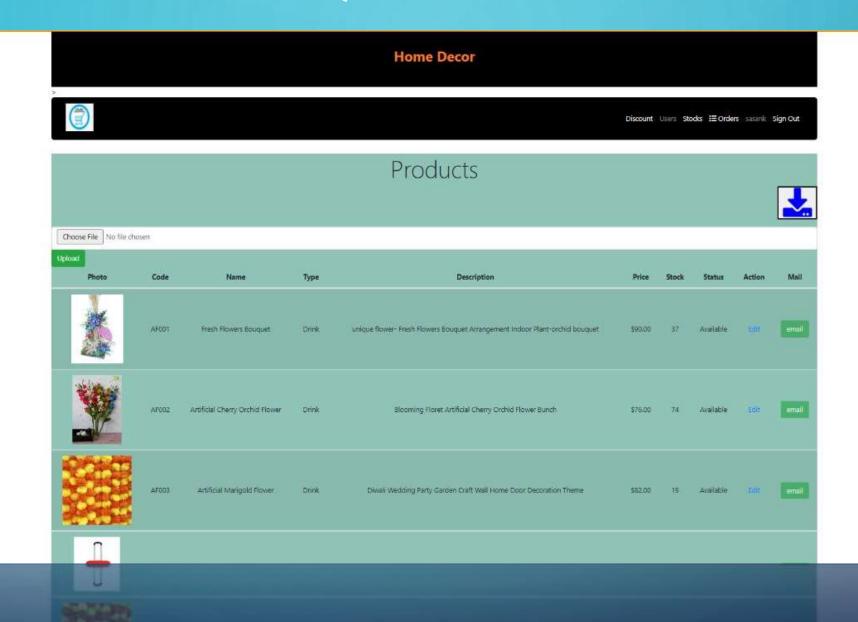


SIGNED IN AS ADMIN – SASANK ADMIN – CRUD ON PRODUCTS

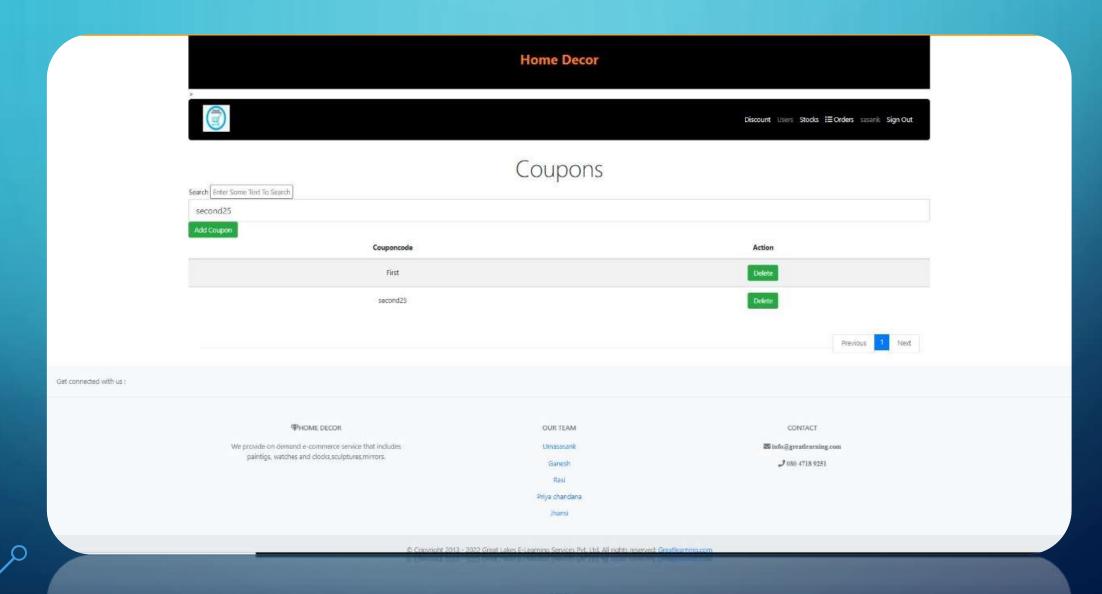


Get connected with us :

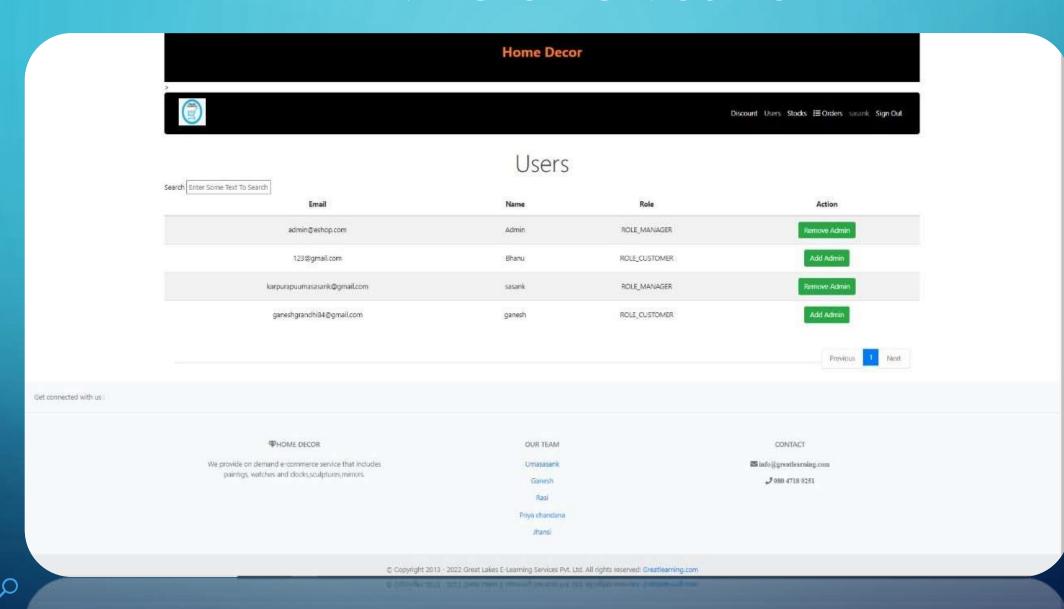
PRODUCTS – PRIZE, STOCKS AND THEIR STATUS



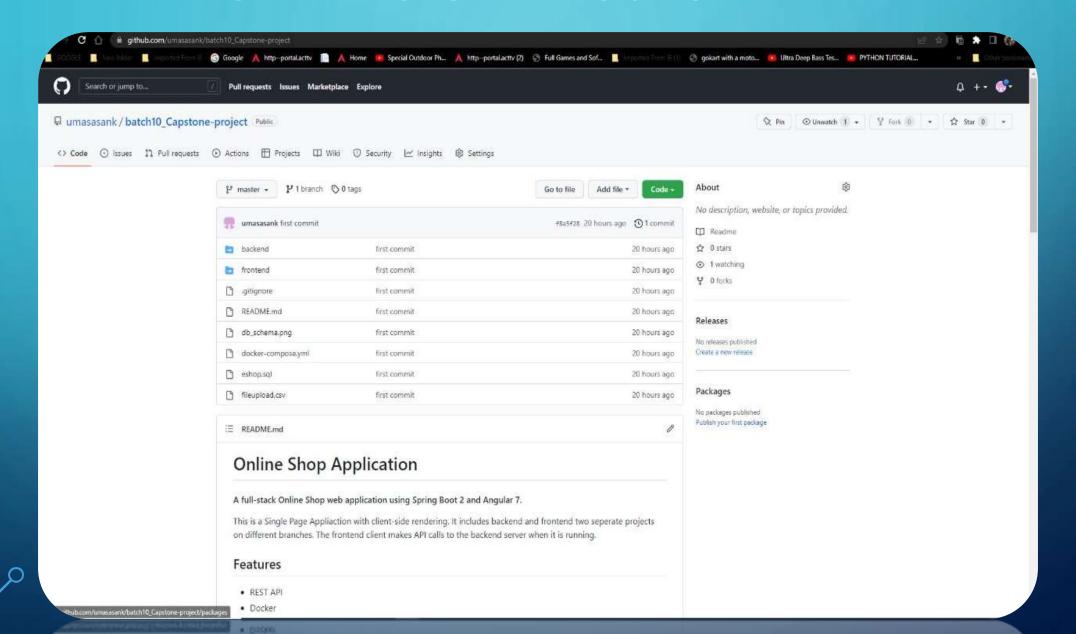
DISCOUNT COUPONS



ADMIN - CRUD ON USERS



CREATING GIT REPOSITORY:



Done by

- 1. Umasasank Karpurapu
- 2.Ganesh Grandhi
- 3. Priya Chandana
- 4. Puli Jhansi
- 5.Kalthuru Rasi

