

ShopForHome

CONTEXT

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GitHub-link : https://github.com/umasasank/batch10_Capstone-project

Project Description:

- Any member can register and view available products.
- Only registered member can purchase multiple products regardless of quantity.
- There are four roles available.
 - Visitor
 - User
 - Operator
 - Admin
- Visitor can view, search, compare available products.
- User can view and purchase products.
- Operator can excess add option and can view everything of admin panel.
 - ✓ Operator can add product, edit product, update and remove product.
 - ✓ Can access users some information.
 - ✓ Operator can ship order to user based on order placed by sending conformation mail.
- An admin has some extra privileges including all privilege of visitor and user.
 - ✓ Admin can add products, edit products information and add or remove product.
 - ✓ Admin can add user, edit user information and can remove user.
 - ✓ Admin can ship order to user based on order placed by sending conformation mail.

Features of the application:

1. Registration
2. Login
3. Payment gateway
4. Searching
5. Filtering
6. Sorting
7. Dynamic data
8. Responsive and compatible with different devices.

Recommended Technologies:

1. Database management: POSTGRESQL
2. Backend Logic: Java Programming, NodeJS
3. Frontend Development: JSP, Angular, Bootstrap, HTML/CSS and JavaScript
4. DevOps and Production Technologies: Git, GitHub, Jenkins, Docker and AWS

Project Development Guidelines:

- The project will be delivered within two sprints with every sprint delivering a minimal viable product.
- It is mandatory to perform proper sprint planning with user stories to develop all the component of the project.
- The learner can use any technology from the above-mentioned technologies for different layers of the project
- The web application should be responsive and should fetch or send data dynamically without hardcoded values
- The learner must maintain the version of application over git hub every new change should be sent to the repository
- The learner must implement a CI/CD pipeline using Jenkins.
- The learner should also deploy and host the application on an AWS EC2 instance.
- The learner should also implement automation testing before the application enters the CI/CD pipeline.
- The learner should use Git branching to do basic automation testing of the application in it separately.
- The learner should make a rich frontend of the application, which is userfriendly and easy for the user to navigate through the application.
- There will be two portals in the application, namely admin and user portal.

Admin Portal:

The admin portal deals with all the backend data generation and product Information. Admin do the following activities

- Add or remove different cuisines to or from the application to build a rich product line
- Edit item details like name, price, cuisine, description, and offers to keep it aligned to the current prices
- Enable or disable the items

User Portal:

It deals with the user activities. The end-user should be able to:

- Sign-in to the application to maintain a record of activities
- Search for items based on the search keyword
- Apply filters and sort results based on different cuisines to get the best deals
- Add all the selected items to a cart and customize the purchase at the end
- Perform a seamless payment process
- Get an order summary details page once the payment is complete.

Core concepts used in the project:

a. **Front End:**

HTML.

CSS3 and

Bootstrap4.

TypeScript.

Angular, Angular Material for View.

b. **VS Code:** As an IDE to design frontend of the application.

c. **Git:** To connect and push files from the local system to GitHub.

d. **GitHub:** To store the application code and track its version.

e. **Back End:**

Eclipse IDE.

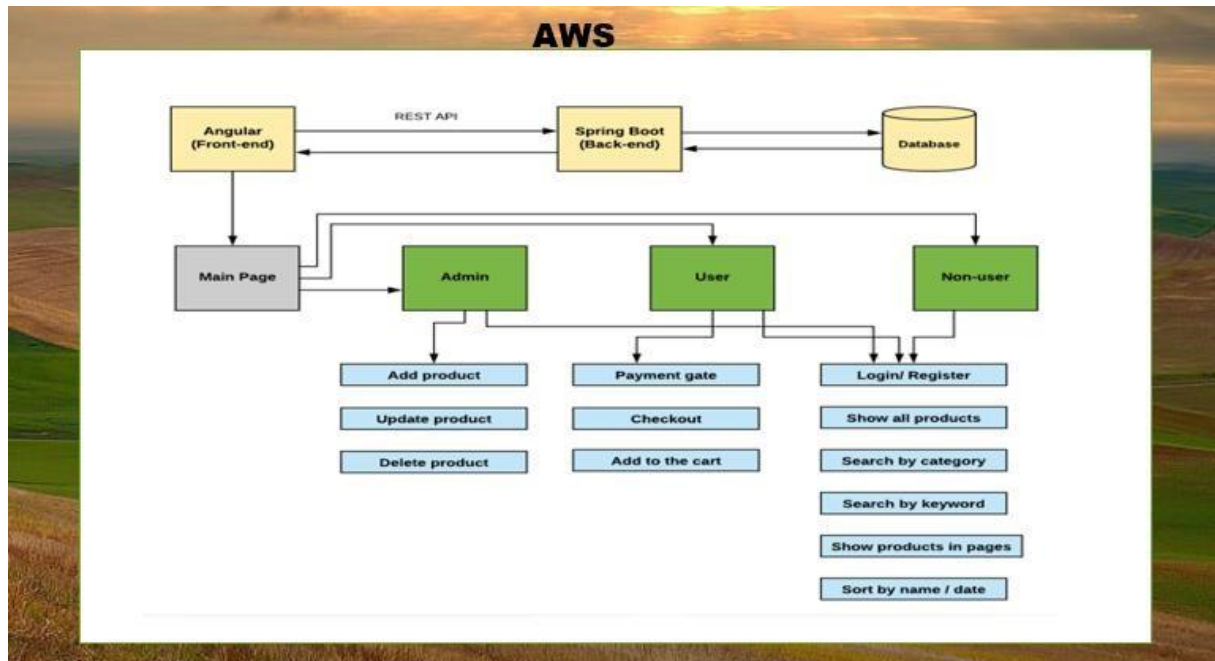
Java Programming.

Searching and Sorting Spring Boot DevTools.

Spring Web and Spring Data JPA.

Deploying in AWS Cloud

Architecture diagram / flow chart



Project Users Stories: (Agile and Scrum)

The project is planned to be completed in 3 sprints. Tasks assumed to be completed in the sprint are:

- Creating the flow of the application
- Initializing git repository to track changes as development progresses.
- Writing the Java program to fulfill the requirements of the project.
- Testing the Java program with different kinds of User input
- Pushing code to GitHub.

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 They wanted
8. As a user I should get different discount coupons.

Sprint 1

1. Create git repository
2. Create database schema (all tables along with their relationships)
3. Create entities in Spring
4. Create Microservice based structure.
5. CRUD on User and Products
6. Create an eCommerce Template in Angular (Static only) to hold images and product list
7. Develop Search Functionality in Angular
8. Bulk upload implementation.

Sprint 2

1. Cart option.
2. Stock and Sales reports
3. Create Data Transfer objects
4. Create repository
5. Create Service layer logic
6. Create Controller to direct rest api
7. Create Discount Microservice

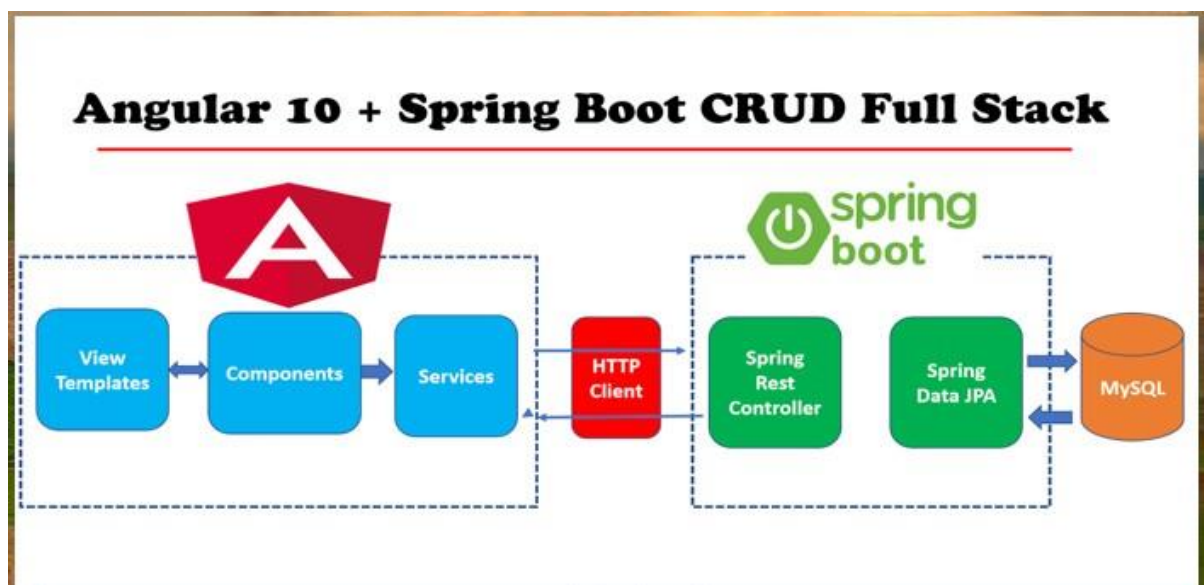
Angular Introduction

Angular is a platform and framework for building single-page client applications using HTML and TypeScript. Angular is written in TypeScript. It implements core and optional functionality as a set of TypeScript libraries that you import into your applications.

Spring Boot Introduction

Spring Boot is an open-source Java-based framework used to create a microservice. It is developed by Pivotal Team and is used to build stand-alone and production ready spring applications. This chapter will give you an introduction to Spring Boot and familiarizes you with its basic concepts.

Connection between Angular and Spring boot



AWS Introduction

Amazon Web Services (AWS) is a cloud service from Amazon, which provides services in the form of building blocks, these building blocks can be used to create and deploy any type of application in the cloud.

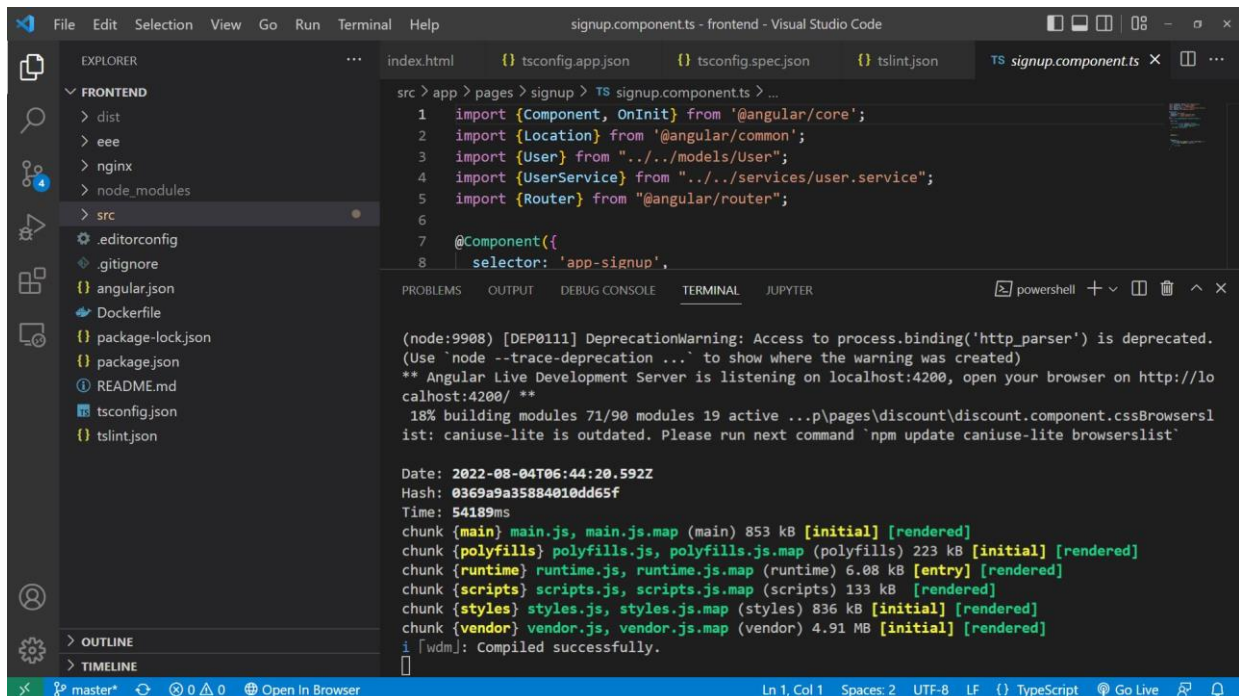
Each type of service in this “What is AWS” blog, is categorized under a domain, the few domains which are widely used are:

- Compute
- Storage
- Database

- Migration
- Network and Content Delivery
- Management Tools
- Security & Identity Compliance
- Messaging

How To run Application and outputs:

1. Go to Eclipse and run the main program
2. Go to Visual studio Code and run the angular project



The screenshot shows the Visual Studio Code interface with the Angular project 'signup.component.ts' open. The Explorer panel on the left shows the project structure, including the 'src' directory. The main editor displays the 'signup.component.ts' file with the following code:

```

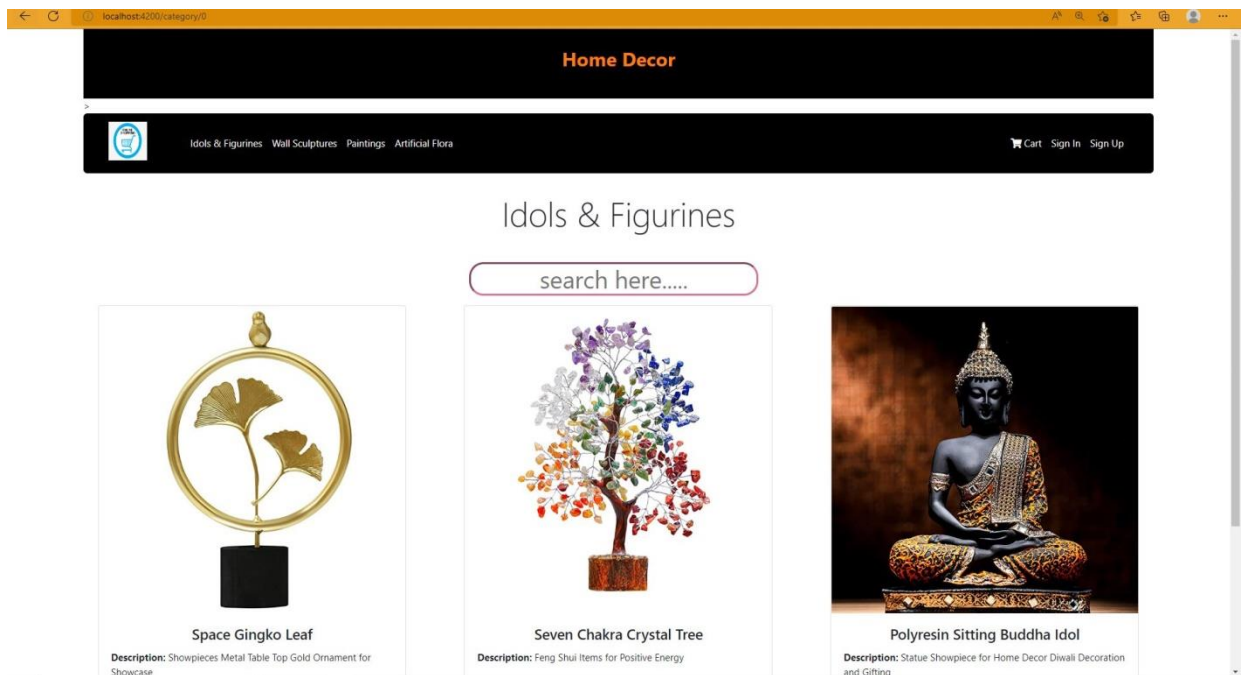
src > app > pages > signup > TS signup.component.ts > ...
1 import {Component, OnInit} from '@angular/core';
2 import {Location} from '@angular/common';
3 import {User} from "../../models/User";
4 import {UserService} from "../../services/user.service";
5 import {Router} from "@angular/router";
6
7 @Component({
8   selector: 'app-signup',

```

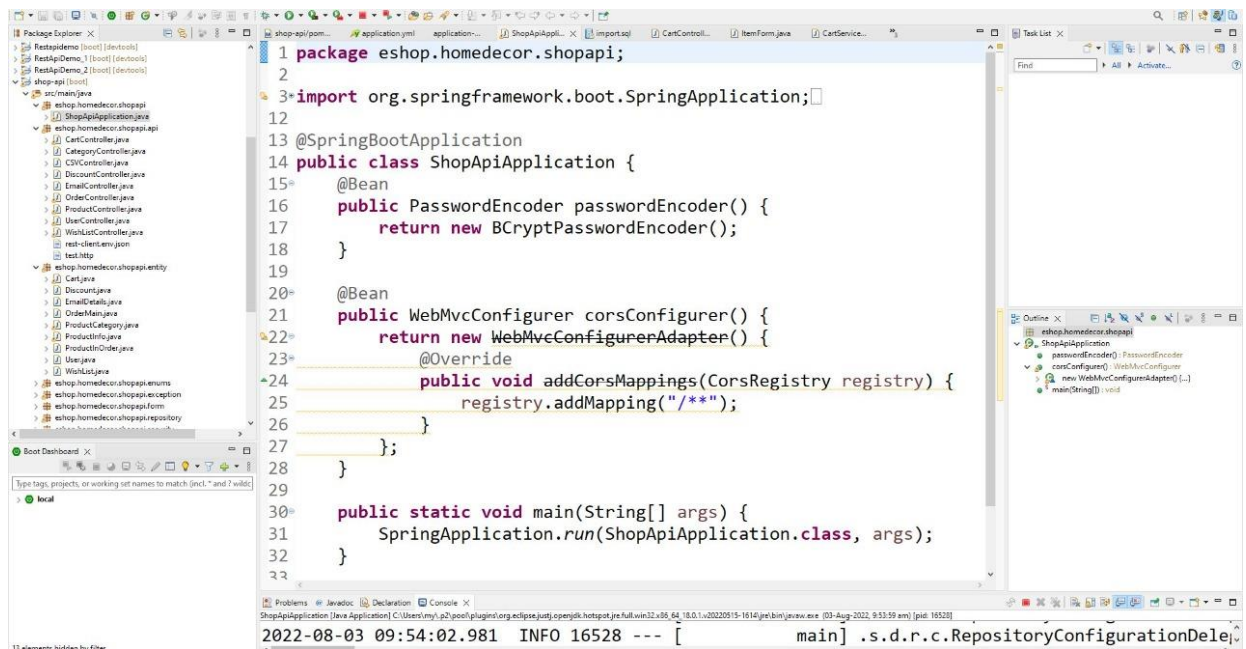
The Terminal panel at the bottom shows the output of the Angular CLI command 'ng serve'. It includes a deprecation warning, the Angular Live Development Server URL (http://localhost:4200/), and the build progress (18% building modules 71/90 modules 19 active ...). The build is successful, and the application is running on localhost:4200.

3. Paste this URL in Chrome browser <http://localhost:4200/> and run the application and

You will get the following web page



4. We need to configure the backend part using spring boot and rest api's for the CRUD operations.



```
eclipse-workspace - shop-api/src/main/java/eshop/homedecor/shopapi/ShopApiApplication.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
# Problems Javadoc Declaration Console X
ShopApiApplication [Java Application] C:\Users\my\p2\pool\plugins\org.eclipse.jdt.launcher\org.eclipse.jdt.launcher.win32.win32.x86_64.18.0.1.v20220515-1814\jre\bin\javaw.exe (03-Aug-2022, 9:53:59 am) [pid: 16528]

:: Spring Boot :: (v2.2.0.BUILD-SNAPSHOT)

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

5. We need to write and insert queries so that the actions which are performed by the user on the products and as well as the admin CRUD operations on user and products can be displayed in the form of tables neatly.

```
Dashboard Properties SQL Statistics Dependencies Dependents eshop.sql
Servers Sample/postgres@PostgreSQL 14
PostgreSQL
Query Query History
5 CREATE TABLE IF NOT EXISTS public.cart
6 (
7     user_id bigint NOT NULL,
8     CONSTRAINT cart_pkey PRIMARY KEY (user_id)
9 )
10
11 TABLESPACE pg_default;
12
13 ALTER TABLE IF EXISTS public.cart
14 OWNER to postgres;
15
16
17
18 -- Table: public.discount
19
20 -- DROP TABLE IF EXISTS public.discount;
21
22 CREATE TABLE IF NOT EXISTS public.discount
23 (
24     id character varying COLLATE pg_catalog."default" NOT NULL,
25     status bigint,
26     CONSTRAINT discount_pkey PRIMARY KEY (id)
27 )
28
29 TABLESPACE pg_default;
30
31 ALTER TABLE IF EXISTS public.discount
32 OWNER to postgres;
33
34
35
36 -- Table: public.order_main
37
38 -- DROP TABLE IF EXISTS public.order_main;
39
40 CREATE TABLE IF NOT EXISTS public.order_main
41 (
42     order_id bigint NOT NULL,
43     buyer_address character varying(255) COLLATE pg_catalog."default",
44     buyer_email character varying(255) COLLATE pg_catalog."default",
45     buyer_name character varying(255) COLLATE pg_catalog."default",
46     buyer_phone character varying(255) COLLATE pg_catalog."default",
47     CONSTRAINT order_main_pkey PRIMARY KEY (order_id)
```

```
--Product_Info

INSERT INTO "public"."product_category" VALUES (2147483641, 'Idols & Figurines', 0, '2022-06-23 23:03:26', '2022-06-23 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, '2022-06-23 23:03:26', '2022-06-23 23:03:26');

--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/719t6YQHWWL._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/91q1v1vHSS._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/91Fw0CVfc3L._SX679_.jpg', 'M

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 ('PA001', 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/81vnbR0Nu-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/81LeEg07UL._SX67
INSERT INTO "public"."product_info" VALUES ('PA003', 2, '2022-06-23 23:03:26', 'Fine Art Home Decor Metal & MDF Art & Craft Bike Panel', 'https://m.media-amazon.com/images/I/81wdvBLTBKL._SX679_.jpg', 'Home i

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/81MCELCCKR4L._SX679_.jpg', 'Artific
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/715VQF2LwRL._SX679_.ji
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/81Aqdw3e0FL._SY679_.ji

-----

--Users

INSERT INTO "public"."users" VALUES (2147483645, true, 'Plot 2, Shivaji Nagar, Benaguru', 'admin@eshop.com', 'Admin', '$2a$10$LfW0437pKU8sZgCzKwK3ueq2lqx0UBsX2Wclzk6JQ3EjB9Mw2xy', '1234567890', 'ROLE_MA
```

So the respective outputs are displayed as shown in the below figures in the form of users actions and admins actions

6. If User wants to sign in he/she first need to click on Sign Up and then he/she need to enter their respective details as shown in below


The screenshot shows a web browser window with the address bar displaying 'localhost:4200/register'. The page has a dark header with the text 'Home Decor'. Below the header, there is a navigation bar with links: 'Idols & Figurines', 'Wall Sculptures', 'Paintings', and 'Artificial Flora'. On the right side of the navigation bar, there are links for 'Cart', 'Sign In', and 'Sign Up'. The main content area is titled 'Sign Up' and contains a form with the following fields:

- Email address:** A text input field with the placeholder 'Enter email'.
- Name:** A text input field with the placeholder 'Your name'.
- Password:** A text input field with the placeholder 'Password'.
- Phone:** A text input field with the placeholder 'Phone'.
- Address:** A text input field with the placeholder 'Address'.


At the bottom of the form, there is a blue button labeled 'Sign Up'.

7. If the user is a old customer in which he is already registered then he can just click on sign in button and enter the details of his mail id and password

Home Decor



Idols & Figurines Wall Sculptures Paintings Artificial Flora

 Cart
 [Sign In](#)
[Sign Up](#)

Sign In

Email address


Password

☐ Remember me
 [Sign Up](#)


Sign In

8. If User wants to add their items to the cart they can click on “add to cart” then automatically Added to the cart. If user open their cart they will see all the products what they added the Following web page looks like this




Home Decor



[IDOLS & FIGURINES](#)
[WALL SCULPTURES](#)
[PAINTINGS](#)
[ARTIFICIAL FLORA](#)

 Cart
 [Wishlist](#)
[Orders](#)
[Bharu](#)
[Sign Out](#)

My Cart

Photo	Name	Price	Quantity	Subtotal	Action
	Home Decor Metal Art	\$73.00	<input type="text" value="1"/>	\$73.00	Remove
	Artificial Cherry Orchid Flower	\$76.00	<input type="text" value="2"/>	\$152.00	Remove
	Space Ginkgo Leaf	\$50.00	<input type="text" value="1"/>	\$50.00	Remove

Select Coupon

Total: \$275.00

Checkout

Get connected with us :

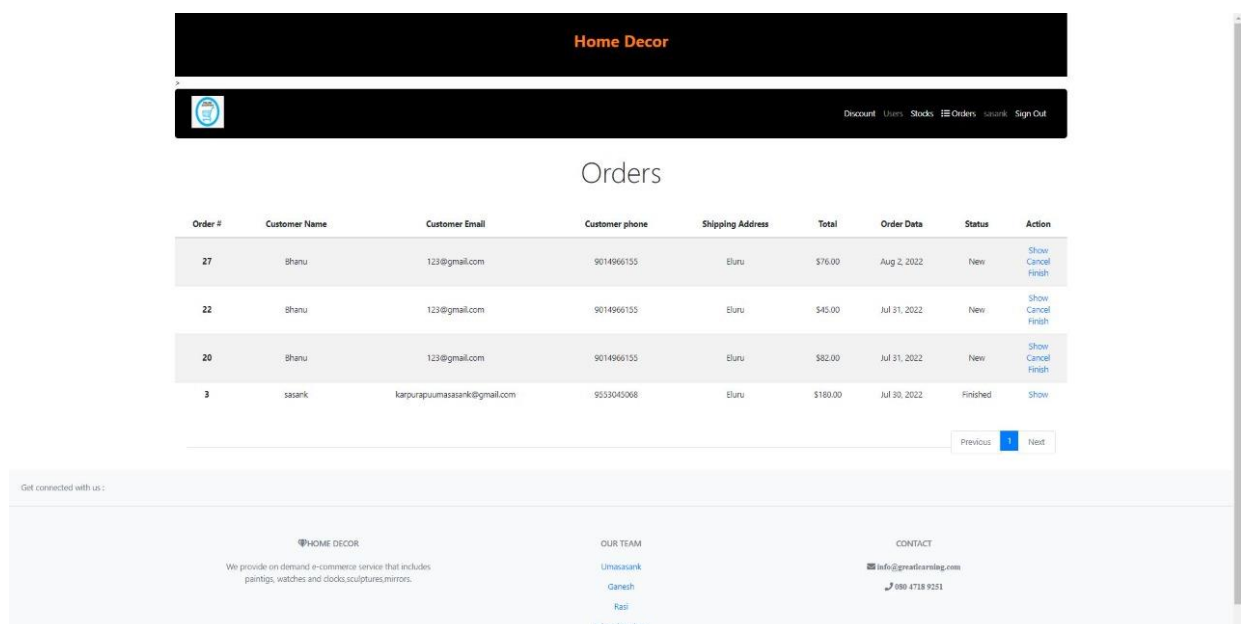
9. User order their product through “checkout” or he/she can shop more or they can empty

Their cart list

10. User can logout when our they want if they want to login , login with their own credentials

Admin CRUD operations:

In the below figure we can see that the orders placed by the user via admin profile



Order #	Customer Name	Customer Email	Customer phone	Shipping Address	Total	Order Date	Status	Action
27	Bhanu	123@gmail.com	9014966155	Bluru	\$76.00	Aug 2, 2022	New	Show Cancel Finish
22	Bhanu	123@gmail.com	9014966155	Bluru	\$45.00	Jul 31, 2022	New	Show Cancel Finish
20	Bhanu	123@gmail.com	9014966155	Bluru	\$82.00	Jul 31, 2022	New	Show Cancel Finish
3	sasank	karupapiumasasank@gmail.com	9553045068	Bluru	\$180.00	Jul 30, 2022	Finished	Show

Previous 1 Next

Get connected with us:

HOME DECOR
We provide on demand e-commerce service that includes paintings, watches and clocks, sculptures, mirrors.

OUR TEAM
Umasank
Ganesh
Ravi
Priya chandana

CONTACT
info@gravidreaming.com
080 4718 9251

Admin performing the CRUD operations on products

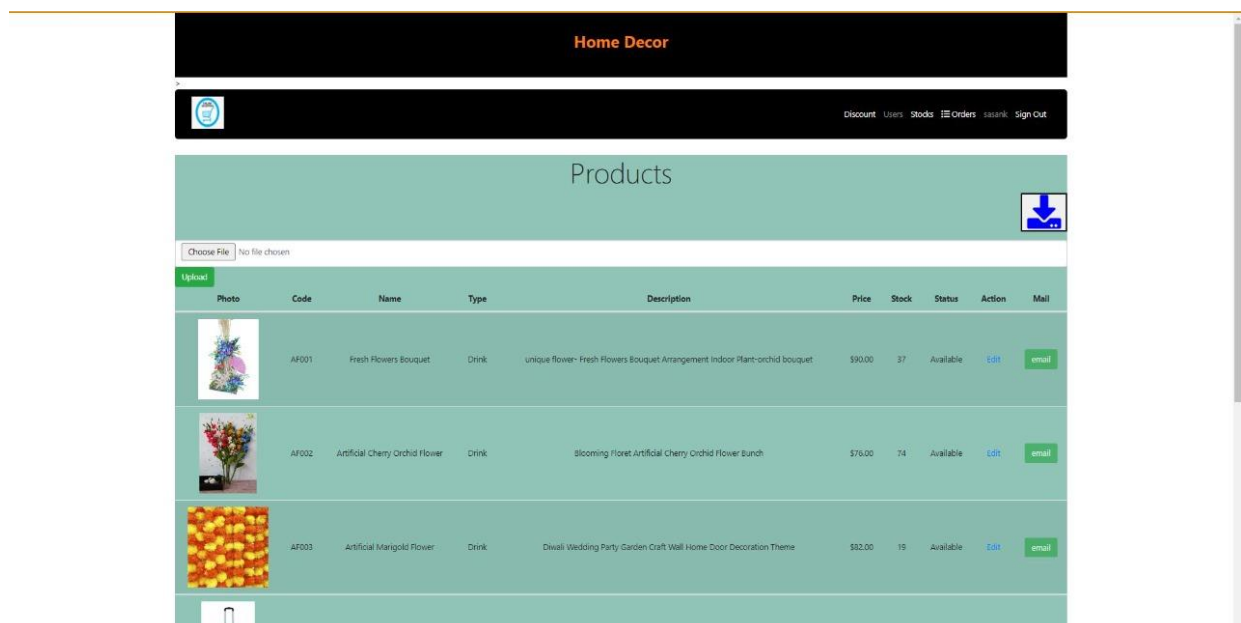





Photo	Code	Name	Type	Description	Price	Stock	Status	Action	Mail
	AF001	Fresh Flowers Bouquet	Drink	unique flower- Fresh Flowers Bouquet Arrangement Indoor Plant-orchid bouquet	\$90.00	37	Available	Edit email	
	AF002	Artificial Cherry Orchid Flower	Drink	Blooming Forest Artificial Cherry Orchid Flower Sundi	\$78.00	74	Available	Edit email	
	AF003	Artificial Marigold Flower	Drink	Diwali Wedding Party Garden Craft Wall Home Door Decoration Theme	\$92.00	19	Available	Edit email	

Admin can also add coupons for the products

The screenshot shows the 'Home Decor' admin dashboard. At the top, there's a navigation bar with links for Discount, Users, Stocks, Orders, sasank, and Sign Out. The main heading is 'Coupons'. Below it is a search bar with the placeholder 'Enter Some Text To Search' and a text input field containing 'second25'. A green 'Add Coupon' button is next to the search bar. Below the search bar is a table with columns 'Couponcode' and 'Action'. The table contains two rows: one with 'First' and a 'Delete' button, and another with 'second25' and a 'Delete' button. At the bottom of the table, there are 'Previous', '1', and 'Next' pagination links. Below the table is a footer section with the text 'Get connected with us :'. It contains three columns: 'HOME DECOR' with a description, 'OUR TEAM' with a list of names (Umasasank, Ganesh, Ravi, Priya chandana, Jhansi), and 'CONTACT' with an email address and a phone number. At the very bottom, there is a copyright notice: '© Copyright 2013 - 2022 Great Lakes E-Learning Services Pvt. Ltd. All rights reserved. Greatlearning.com'.

Admin Perform CRUD operations on user

The screenshot shows the 'Home Decor' admin dashboard. At the top, there's a navigation bar with links for Discount, Users, Stocks, Orders, sasank, and Sign Out. The main heading is 'Users'. Below it is a search bar with the placeholder 'Enter Some Text To Search' and a text input field containing 'second25'. A green 'Add Admin' button is next to the search bar. Below the search bar is a table with columns 'Email', 'Name', 'Role', and 'Action'. The table contains four rows: one with 'admin@eshop.com', 'Admin', 'ROLE_MANAGER', and a 'Remove Admin' button; one with '123@gmail.com', 'Bhanu', 'ROLE_CUSTOMER', and an 'Add Admin' button; one with 'karpuapumamasank@gmail.com', 'sasank', 'ROLE_MANAGER', and a 'Remove Admin' button; and one with 'ganeshgrandhi04@gmail.com', 'ganesh', 'ROLE_CUSTOMER', and an 'Add Admin' button. At the bottom of the table, there are 'Previous', '1', and 'Next' pagination links. Below the table is a footer section with the text 'Get connected with us :'. It contains three columns: 'HOME DECOR' with a description, 'OUR TEAM' with a list of names (Umasasank, Ganesh, Ravi, Priya chandana, Jhansi), and 'CONTACT' with an email address and a phone number. At the very bottom, there is a copyright notice: '© Copyright 2013 - 2022 Great Lakes E-Learning Services Pvt. Ltd. All rights reserved. Greatlearning.com'.

Deploy Spring Boot in AWS and results

There are many ways to Deploy the spring boot application into AWS one of the way we

Were choose is the following:

1. Creating Instance (EC2 instance)
2. Creating S3 Bucket
3. Upload spring boot .jar file
4. Connecting EC2 instance with the Putty

Creating EC2 Instances:

The screenshot displays the AWS Management Console for the 'us-east-1' region. The left sidebar shows the navigation menu with categories like EC2 Dashboard, Events, Tags, Limits, Instances, Images, Elastic Block Store, Network & Security, and IAM. The main content area shows a list of EC2 instances. The 'newserver' instance is selected, and its details are shown in the right pane. The instance is in the 'Running' state, has a public IP address of 3.82.245.130, and is running the Amazon Linux 2 AMI. The instance is part of a VPC named 'vpc-041d256f67a109b65' and is associated with the 'default' IAM role.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
shopforhome	i-023485841ce5812e	Terminated	t2.micro	-	No alarms	us-east-1a	-	-	-
newserver	i-022080e88da40d2c8	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d	ec2-3-82-245-130.com...	3.82.245.130	-
new	i-0c2b54a04295d5fc	Terminated	t2.micro	-	No alarms	us-east-1d	-	-	-

Instance: i-022080e88da40d2c8 (newserver)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary

Instance ID: i-022080e88da40d2c8 (newserver)
IPV6 address: -
Hostname type: IP name: ip-172-31-90-101.ec2.internal
Answer private resource DNS name: IPv4 (A)
Auto-assigned IP address: 3.82.245.130 [Public IP]

Public IPv4 address
3.82.245.130 | open address

Instance state
Running

Private IP DNS name (IPv4 only)
ip-172-31-90-101.ec2.internal

Instance type
t2.micro

VPC ID
vpc-041d256f67a109b65

Subnet ID
subnet-022ef5f6e699e7f6

IAM Role
-

Private IPv4 addresses
172.31.90.101

Public IPv4 DNS
ec2-3-82-245-130.compute-1.amazonaws.com | open address

Elastic IP addresses
-

AWS Compute Optimizer finding
User: arn:aws:sts::369705614825:federated-user/greatlearningco1659590290678 is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the compute-optimizer:GetEnrollmentStatus action
Retry

Auto Scaling Group name
-

Creating S3 Bucket

The screenshot displays the Amazon S3 console for the 'us-east-1' region. The left sidebar shows the navigation menu with categories like Buckets, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, Access analyzer for S3, Storage Lens, Dashboards, AWS Organizations settings, Feature spotlight, and AWS Marketplace for S3. The main content area shows the details of a bucket named 'webpage1234'. The bucket is in the 'Publicly accessible' state. The 'Objects' tab is selected, showing a list of objects. One object, 'dist.zip', is listed with a size of 2.9 MB and a storage class of 'Standard'. The object was last modified on August 4, 2022, at 11:10:07 (UTC+05:30).

Amazon S3 | Get hands-on guidance on how to get started with S3 Intelligent-Tiering and experience automatic storage cost savings. | View tutorial

Amazon S3 > Buckets > webpage1234

webpage1234 info

Publicly accessible

Objects | Properties | Permissions | Metrics | Management | Access Points

Objects (1)

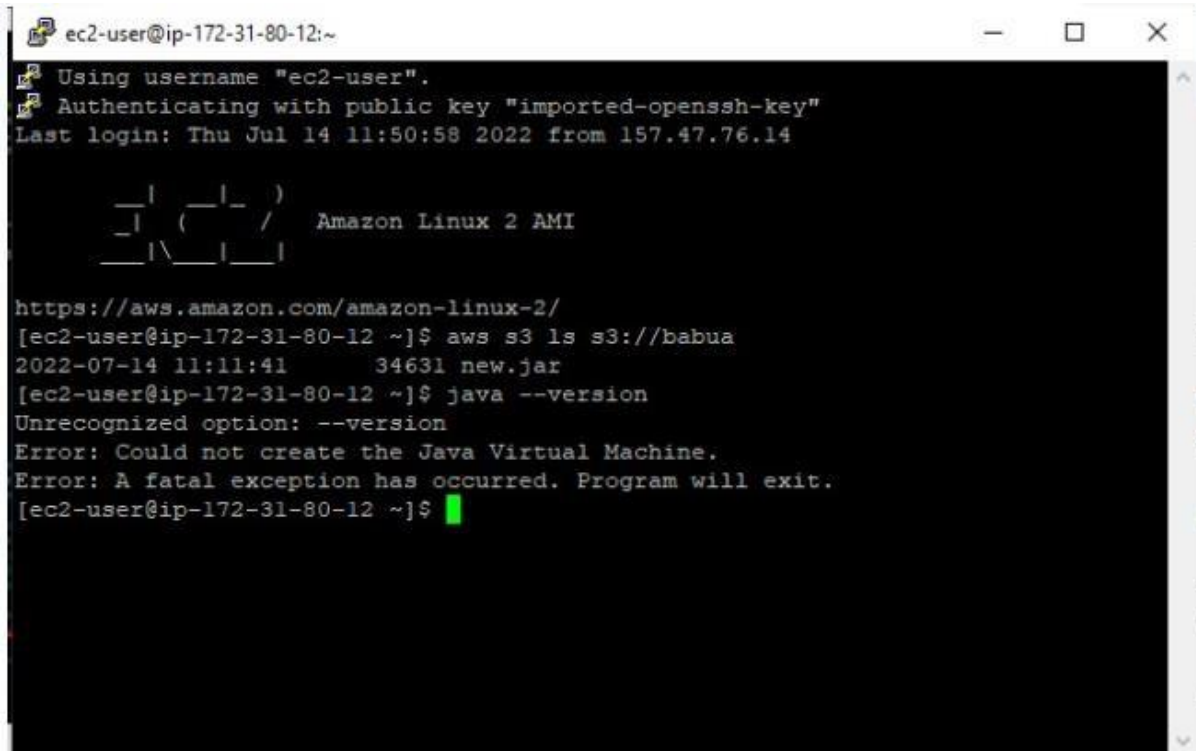
Objects are the fundamental entities in Amazon S3. Use Amazon S3 Inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more

Copy S3 URI | Copy URL | Download | Open | Delete | Actions | Create folder | Upload

Find objects by prefix

Name	Type	Last modified	Size	Storage class
dist.zip	zip	August 4, 2022, 11:10:07 (UTC+05:30)	2.9 MB	Standard

After open putty check if java is installed or not if java version not installed install java using the following command “yum install java-1.8.0-openjdk” and check java version

A terminal window titled 'ec2-user@ip-172-31-80-12:~' showing the following text:

```
Using username "ec2-user".
Authenticating with public key "imported-openssh-key"
Last login: Thu Jul 14 11:50:58 2022 from 157.47.76.14

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 _ | ( _ _ | /   Amazon Linux 2 AMI
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https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-80-12 ~]$ aws s3 ls s3://babua
2022-07-14 11:11:41      34631 new.jar
[ec2-user@ip-172-31-80-12 ~]$ java --version
Unrecognized option: --version
Error: Could not create the Java Virtual Machine.
Error: A fatal exception has occurred. Program will exit.
[ec2-user@ip-172-31-80-12 ~]$
```

Then connect to the bucket through the copy URL of the file which was uploaded in the Bucket then open the .jar file it could be like this

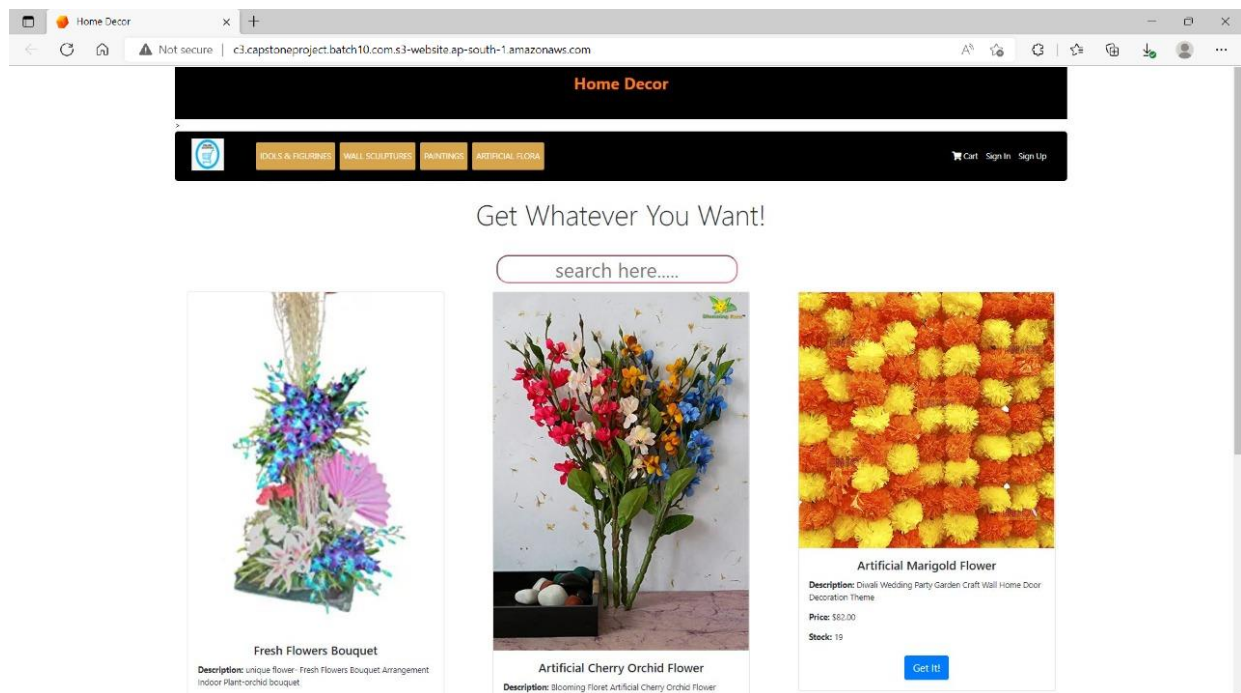

```

eclipse-workspace - shop-api\src\main\java\ehomdecor\shopapi\ShopApiApplication.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
ShopApiApplication [Java Application] C:\Users\my\p2\workspace\shopapi\src\main\java\ehomdecor\shopapi\ShopApiApplication.java
:: Spring Boot :: (v2.2.0.BUILD-SNAPSHOT)

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

```

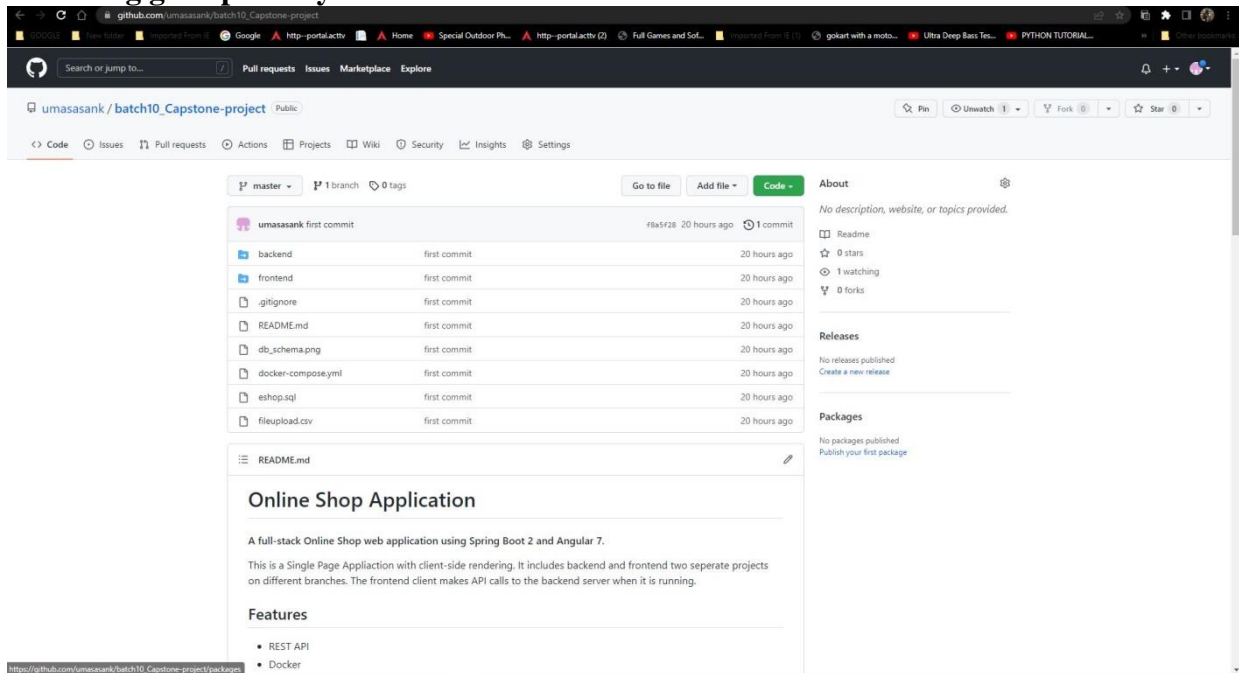
It connected to the Spring Now we need to connect to spring with web browser with the IP address



Then the output will become like the following

Push this application into GitHub:

Creating git repository:



The Following Commands used to push the files into repository

git init

git add.

git commit -m “add existing project files to git”

git remote add origin “link”

git push -u -f origin master

Conclusion

After extensive research and analysis we have drawn to the following conclusions.

Yes online shopping is pretty popular among the young Indian blood. Many teenagers and bachelors are now using the E-Commerce for fulfilling their shopping desires. Most of them are completely aware of all the pros and cons of online shopping. Graduates are the majority users of E-retail. Cash on delivery remains the best choice for payment followed by Debit and credit cards. Females are marginally more interested in shopping through the internet due too its convenience. Most users are shopping once or twice a week though the web with spending ranging from rupees 100 to 2500 monthly. With most of the E- retailers selling branded goods and having flexible return policies they are being well trusted by the users. Apparel, footwear and Accessories lead as the most demanded goods online followed by Software and Music. The most visited and trusted sites are Amazon and Flip-kart according to the survey. After this analysis we conclude that India has a huge potential for growth of a multibillion dollar industry of E-Commerce as the top players of the market are having more than 100% growth year on year and their valuations are crossing billions of dollars.

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