



# **GREAT LEARNING CAPSTONE PROJECT**

## **SHOPFOR HOME**

**Batch : WIPRO\_VELOCITY\_ GCP\_ IP\_ APR C III**

**Group : G2**

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# **1. Introduction**

Electronic commerce refers to the buying and selling of products or services over electronic systems such as the Internet and other computer networks. The Shopping Cart is very important feature used in e-commerce to assist people making purchases products online. It also includes the entire online process of developing, marketing, selling, delivering, servicing and paying for products and services. In order to purchase a shopping cart is provided to the user. The amount of trade conducted electronically has grown extraordinarily with widespread Internet usage. The use of commerce is conducted in this way, spurring and drawing on innovations in electronic funds transfer, supply chain management, Internet marketing, online transaction processing, electronic data interchange (EDI), inventory management systems, and automated data collection systems. The e-commerce site will let customers to view and order products online from any part of the world.

The main advantage of e-commerce over traditional commerce is the user can browse online shops, compare prices and order merchandise sitting at home on their PC. Secure registration and profile management facilities for Customers. Shopping Cart feature allows online shopping customers to “place” items in the cart. It Decreases the cost of creating, processing, distributing, storing and retrieving paper-based information. Expands the marketplace to national and international markets. Upon “checkout” the software calculates as total for the order including shipping and handling postage, packing and taxes, if applicable. Reduces the time between the outlay of capital and the receipt of products and services. Customers should be able to mail the Shop about the items they would like to see in the Shop

The proposed system helps in building a website to buy, sell products or goods online using internet connection. Enables consumers to shop or do other transactions 24 hours a day, all year round from almost any location. It can be accessed over the Internet.

Purchasing of goods online, user can choose different products based on categories , online payments , delivery services and hence covering the disadvantages of the existing system and making the buying easier and helping the vendors to reach wider market. It Provides consumers with more choices. Customer can purchase Products Online.

## **2. Scope**

E-commerce has bloomed over the years and is one of the fastest-growing domains in the online world. Though it took some time for this to be accepted by the end-users, today we are at a point where the majority of the people love to shop online. There were numerous concerns revolving around online shopping at its launch, but over years people tend to have started trusting E-commerce for all their shopping needs. In India, people prefer shopping online these days rather than having to visit the physical store. The payment features that are smart and secure as well as the cash on delivery (COD), which makes the payment, even more, safer with hassle-free shipping, easy returns and reach out.

Let us check out the development or growth of this e-commerce sector in India. We have specifically collected substantial data from across the web after analysis and inferences of information acquired from authentic sources. In the year 2013, around 8 million people have been shopping online. And, the most interesting factor is that they have done shopping from some of the major online shopping sites. And, the number 8 million had risen to around 100 million by the year 2016. The new shoppers (customer base) accounting to around 50% came from the tier one and tier two towns of India. Today, we can proudly say that India is one of the places where online shopping has been booming and will continue to do so. This means that online shopping has a lot of prospects in the future.

### **3. Purpose**

The primary goal of e-commerce is to reach maximum customers at the right time to increase sales and profitability of the business. Functions of e-commerce include buying and selling goods, transmitting funds or data over the internet.

A typical online store enables the customer to browse the firm's range of products and services, view photos or images of the products, along with information about the product specifications, features and prices. Online stores usually enable shoppers to use "search" features to find specific models, brands or items.

## **4. Technology Stack**

- 1. Angular**
- 2. Java(Spring Boot)**
- 3. Postgresql**

## **4. Software Requirements**

### **Front End**

Front end is build using Angular.

### **Back End**

Java(Spring Boot Microservice) is used for Back-end.

### **Database**

Postgresql is used for database.

## **5. Design Goals**

- The design of the web application involves the design of the forms for listing the products, search for products, display the complete specification for the product, and design a shopping cart that is easy to use.
- Design of an interactive application that enables the user to filter the products based on different parameters.
- Design of an application that has features like drag and drop etc.
- Design of application that decreases data transfers between the client and the server.

## **6. Shop Products Module**

This module starts when the user visits the home page or when a user searches for a product by entering a search term. This part of the application includes displaying all the products that are available or the products that match the search term entered by the user. The user can then filter these products based on various parameters like manufacturer, product type, operating system supported or a price range. The user browse through the products and each product would be displayed with an image and its features like operating system supported, number of user licenses and if it is a full version or an upgrade version. A user can add a product to the cart either by dragging the product and dropping it in the cart or by clicking a button. The user would be able to see the shopping cart summary.

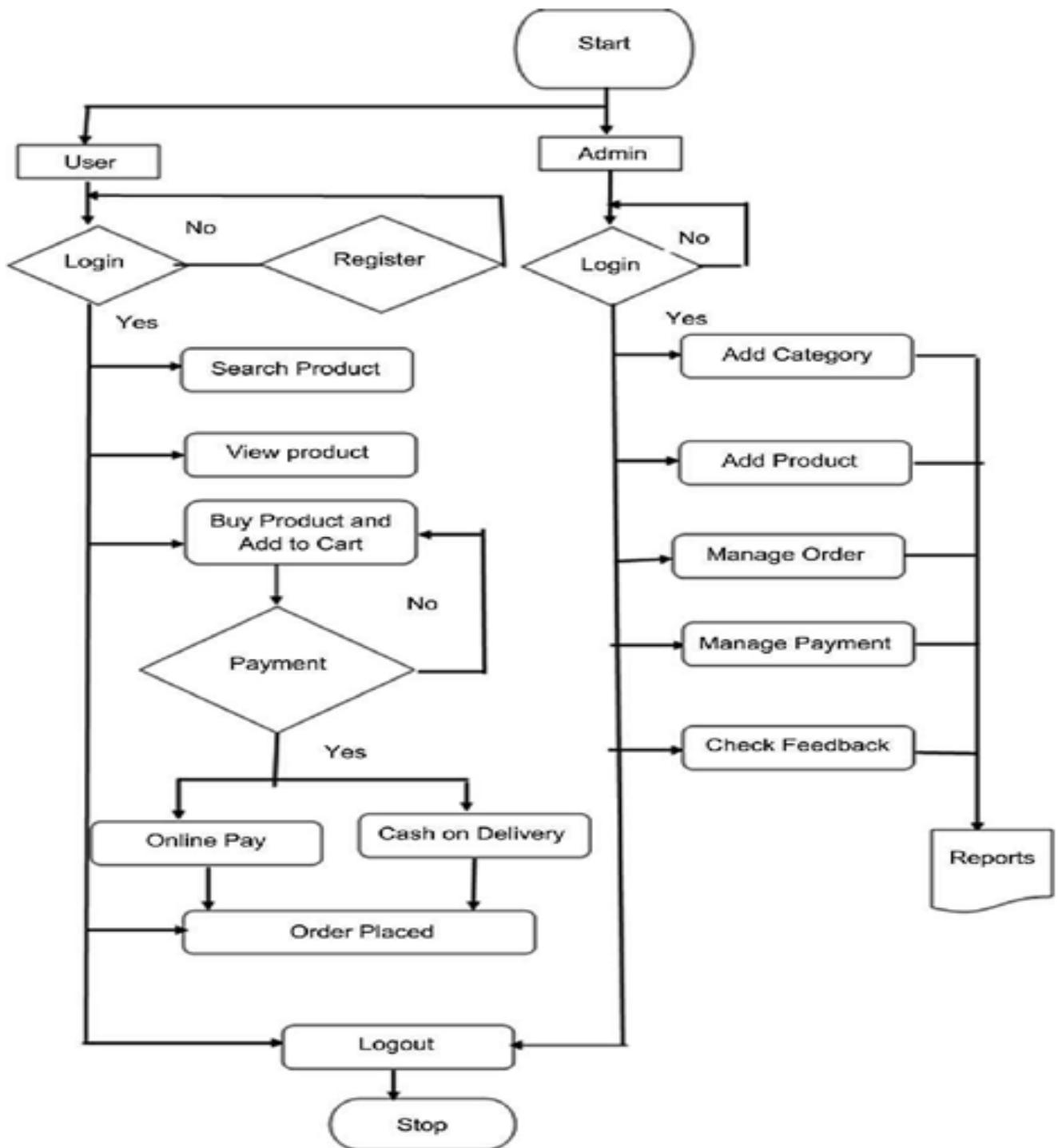
## **7. Product Description Module**

This module starts when a user visits the product description page. A user can view various images of the product of different sizes. The user can see an enlarged image in a popup window. The user can view the complete specification of the product like its features, operating system supported, system requirements etc. A user can also view the manufacturer information and also information about rebates, exchange policies etc. A user can also view the reviews of the product. A user can also write a review for the product.

## **8. Shopping Cart Module**

This module starts when the user views the shopping cart. All the products that have been added to the shopping cart by the user are listed along with their price and the quantity. The total price of all the products added to cart is displayed. A user can edit the quantity of each product or remove the product from the shopping cart. A user can remove the product from the cart by clicking a button or by dragging the product and dropping it outside the cart. The total price changes accordingly when a user edits the quantity of a product or when a product is removed from the cart.

## 9. FLOWCHART



# 10. Results

The application can be used for any Ecommerce application. It is easy to use. User friendly screens are provided. The application is easy to use and interactive making online shopping a recreational activity for users. It has been thoroughly tested and implemented.

## Screenshots

### 1. Register Source Code

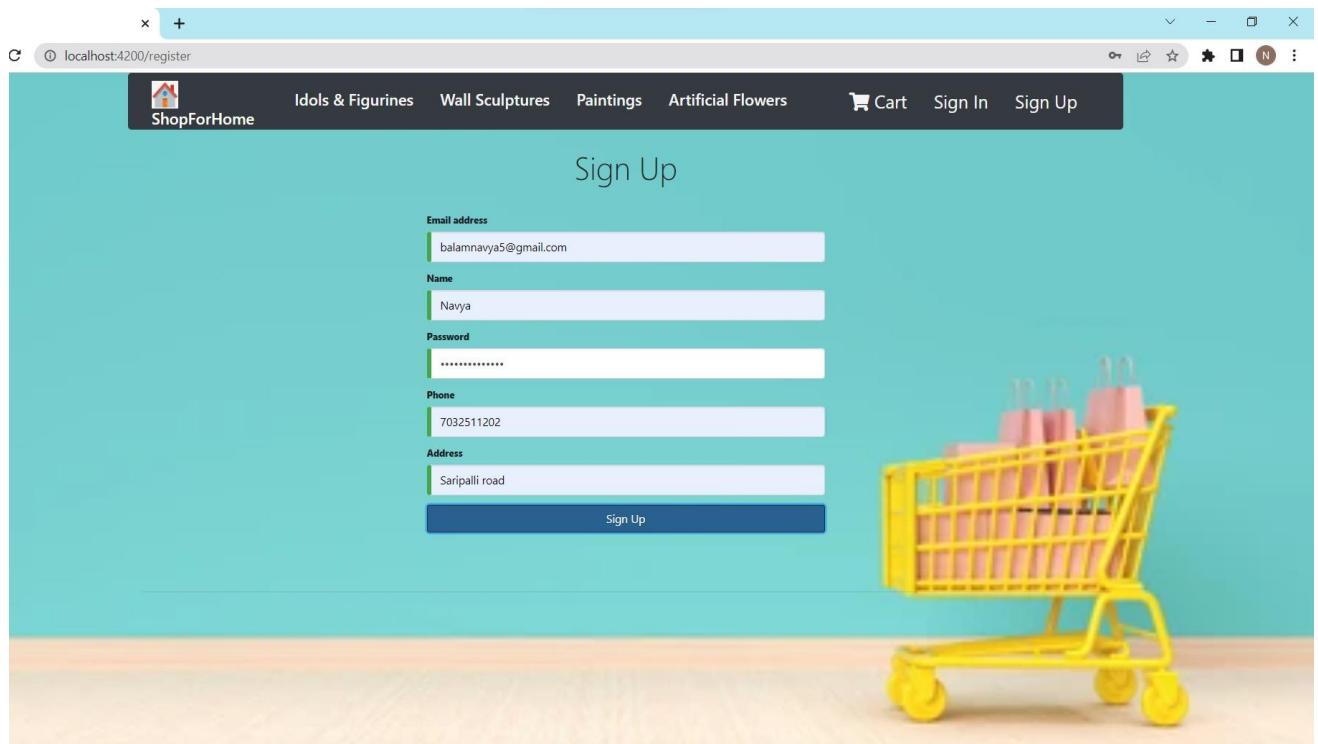
```
2  <div style="width:40%; margin: 10px auto;">software, or an article lede.  
3    <form #form="ngForm" (ngSubmit)={onSubmit} novalidate>  
4      <div class="form-group">  
5        <label><b>Email address</b></label>  
6        <input [(ngModel)]="user.email" type="email" class="form-control form-control-lg" id="email" name="email" placeholder="Enter email" required/>  
7        <div *ngIf="email.invalid && (email.dirty || email.touched)">  
8          <div *ngIf="email.errors.required">  
9            Email is required.  
10         </div>  
11         <div *ngIf="email.errors.email">  
12           Invalid Email.  
13         </div>  
14       </div>  
15     </div>  
16     <div class="form-group">  
17       <label><b>Name</b></label>  
18       <input [(ngModel)]="user.name" type="text" class="form-control form-control-lg" id="name" name="name" placeholder="Your name" required/>  
19       <div *ngIf="name.invalid && (name.dirty || name.touched)">  
20         <div *ngIf="name.errors.required">  
21           Name is required.  
22         </div>  
23         <div *ngIf="name.errors.WhiteSpace">Whitespace is not allowed</div>  
24         <div *ngIf="name.errors.minLength">  
25           Name must be at least 3 characters long.  
26         </div>  
27       </div>  
28     </div>  
29     <div class="form-group">  
30       <label><b>Password</b></label>  
31       <input [(ngModel)]="user.password" type="password" class="form-control form-control-lg" id="password" name="password" placeholder="Enter password" required/>  
32       <div *ngIf="password.invalid && (password.dirty || password.touched)">  
33         <div *ngIf="password.errors.required">  
34           Password is required.  
35         </div>  
36         <div *ngIf="password.errors.minLength">  
37           Password must be at least 3 characters long.  
38       </div>
```

```

35      </div>
36      <div *ngIf="password.errors.minLength">
37          ||| Password must be at least 3 characters long.
38      </div>
39  </div>
40  <div class="form-group">
41      <label><b>Phone</b></label>
42      <input [(ngModel)]="user.phone" type="text" class="form-control form-control-lg" id="phone" name="phone" placeholder="Phone" minle
43          <div *ngIf="phone.invalid && (phone.dirty || phone.touched)">
44              <div *ngIf="phone.errors.required">
45                  ||| Phone is required.
46              </div>
47          </div>
48      </div>
49  <div class="form-group">
50      <label><b>Address</b></label>
51      <input [(ngModel)]="user.address" type="text" class="form-control form-control-lg" id="address" name="address" placeholder="Addres
52          <div *ngIf="address.invalid && (address.dirty || address.touched)">
53              <div *ngIf="address.errors.required">
54                  ||| Address is required.
55              </div>
56          </div>
57      </div>
58  <div class="form-group">
59      <button type="submit" class="btn btn-lg btn-primary btn-block" [disabled]="!form.form.valid" >Sign Up</button>
60  </div>
61  </form>
62 </div>
63 </div>
64

```

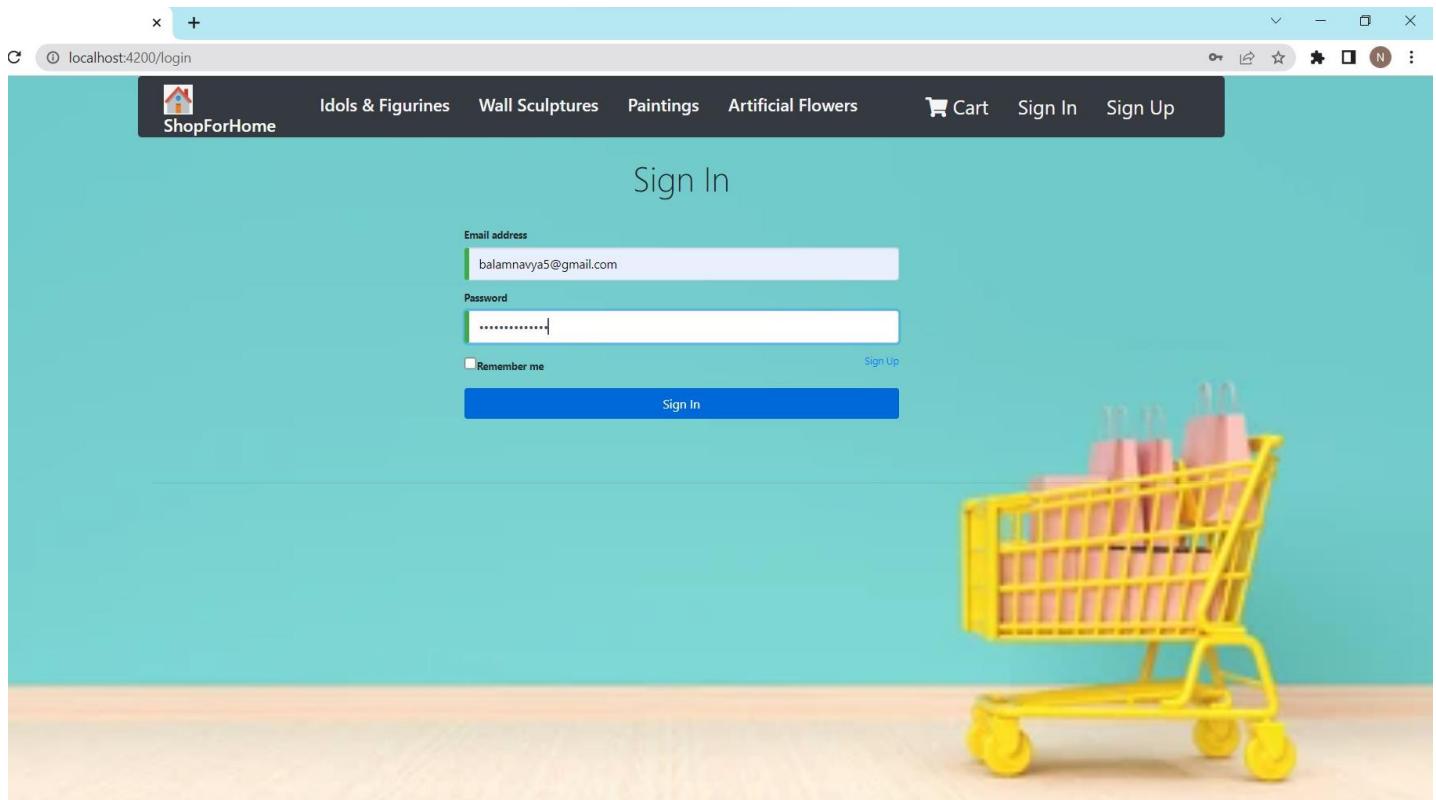
## OUTPUT :



## 2. Login Source Code

```
5   </div>
6   <div class="alert alert-info" *ngIf="isLogout">
7     You have been logged out.
8   </div>
9   <form #form="ngForm" (ngSubmit)="onSubmit()">
10     <div class="form-group">
11       <label>Email address</label>
12       <input type="text" class="form-control form-control-lg" id="email" name="email" placeholder="Enter email"
13           required autofocus [(ngModel)]="model.username" #email="ngModel" autocomplete="email" >
14       <div [hidden]="email.valid || email.pristine" class="alert alert-danger">
15         Email is required
16       </div>
17     </div>
18     <div class="form-group">
19       <label>Password</label>
20       <input type="password" class="form-control form-control-lg" id="password" name="password" autocomplete="password"
21           placeholder="Password" required [(ngModel)]="model.password" #password="ngModel" >
22       <div [hidden]="password.valid || password.pristine" class="alert alert-danger">
23         Password is required
24       </div>
25     </div>
26     <div class="form-group">
27       <div>
28         <input type="checkbox" id="remember_me" name="remember-me" [(ngModel)]="model.remembered">
29         <label for="remember_me" class="inline">Remember me</label>
30         <a class="float-right" routerLink="/register">Sign Up</a>
31       </div>
32     </div>
33     <div class="form-group">
34       <button [disabled]="!form.form.valid" type="submit" class="btn btn-lg btn-primary btn-block">Sign In</button>
35     </div>
36   </form>
37 </div>
```

## Output :



### 3. Products Source Code

```
1  <h1 align="center" class="display-4 mb-5">{{title}}</h1>
2  <div class="row text-center justify-content-center">
3  |   <div class="col-lg-6 ">
4  |     <div class="card mb-4 ">
5  |       
7  |         <h4 class="card-title ">{{productInfo?.productName}}</h4>
8  |         <form name="form" #form="ngForm" (ngSubmit)="productInfo?.productStatus == 0 && addToCart()">
9  |           <div class="text-left">
10 |             <input hidden name="productId" [value]=productInfo?.productId>
11 |             <p class="card-text"><strong>Description: </strong>{{productInfo?.productDescription}}</p>
12 |             <p class="card-text">
13 |               <strong>Price: </strong>
14 |               <label id="price">{{productInfo?.productPrice | currency}}</label>
15 |             </p>
16 |             <p class="card-text"><strong>Stock: </strong>{{productInfo?.productStock}}</p>
17 |
18 |             <label class="card-text">
19 |               <strong>Quantity: </strong>
20 |               <input [(ngModel)]=count
21 |                 (change)="validateCount()"
22 |                 type="number"
23 |                 name="count"
24 |                 required
25 |                 min="1"
26 |                 [max]=productInfo?.productStock
27 |               >
28 |             </label>
29 |             <p class="card-text"><strong>Subtotal: </strong>
30 |               <label id="subtotal">{{count * productInfo?.productPrice | currency}}</label>
31 |             </p>
32 |           </div>
33 |
34 |           <i *ngIf="currentUser && addedToWishlist" class="fas fa-heart fa-2x" (click)="handleRemoveFromWishList(productInfo.productId)">
35 |           <i *ngIf="currentUser && !addedToWishlist" class="far fa-heart fa-2x" (click)="handleAddToWishList(productInfo.productId)"></i>
36 |
37 |           <button type="submit" [disabled]!="form.form.valid" *ngIf="productInfo?.productStatus == 0; else offBlock">
```

```
14 |           <label id= price >{{productInfo?.productPrice | currency}}</label>
15 |         </p>
16 |         <p class="card-text"><strong>Stock: </strong>{{productInfo?.productStock}}</p>
17 |
18 |         <label class="card-text">
19 |           <strong>Quantity: </strong>
20 |           <input [(ngModel)]=count
21 |             (change)="validateCount()"
22 |             type="number"
23 |             name="count"
24 |             required
25 |             min="1"
26 |             [max]=productInfo?.productStock
27 |           >
28 |         </label>
29 |         <p class="card-text"><strong>Subtotal: </strong>
30 |           <label id="subtotal">{{count * productInfo?.productPrice | currency}}</label>
31 |         </p>
32 |       </div>
33 |
34 |       <i *ngIf="currentUser && addedToWishlist" class="fas fa-heart fa-2x" (click)="handleRemoveFromWishList(productInfo.productId)">
35 |       <i *ngIf="currentUser && !addedToWishlist" class="far fa-heart fa-2x" (click)="handleAddToWishList(productInfo.productId)"></i>
36 |
37 |       <button type="submit" [disabled]!="form.form.valid" *ngIf="productInfo?.productStatus == 0; else offBlock">
38 |         <span>Add to Cart</span>
39 |       </button>
40 |       <ng-template #offBlock><a class="btn btn-secondary btn-lg disabled">Unavailable</a></ng-template>
41 |     </form>
42 |
43 |   </div>
44 | </div>
45 | </div>
46 | </div>
47 | </div>
```

# Output

The screenshot shows the homepage of the ShopForHome website. The header includes a logo, navigation links for Idols & Figurines, Wall Sculptures, Paintings, Artificial Flowers, Cart, Wishlist, Orders, and user profiles for Navya and Sign Out. A search bar says "Search Here". Below it are three product cards:

- Gloptook Artificial Hanging Wisteria Flower Vine**  
Description: The flower vine is carefully wired and joined.  
Price: \$90.00  
Stock: 38
- Sofix Artificial Flowers with Wood Pot**  
Description: Blooming Floret Artificial Cherry Orchid Flower Bunch  
Price: \$76.00  
Stock: 74
- Artificial Marigold Flower**  
Description: Diwali Wedding Party Garden Craft Wall Home Door Decoration Theme  
Price: \$82.00  
Stock: 20

A yellow shopping cart icon is visible on the right.

## My WishList

The screenshot shows the "My WishList" page. The header is identical to the homepage. The main content displays a table of wishlist items:

Photo	ID	Name	Price	Action
	PA001	Paper Vintage City Street Wall Art	\$73.00	<a href="#">Remove</a>
	IF003	India Brass God Ganesha Idol	\$45.00	<a href="#">Remove</a>
	WS002	Metal Wall Decor Wall Hanging	\$85.00	<a href="#">Remove</a>

A yellow shopping cart icon is visible on the right.

# My Cart

The screenshot shows a web browser window with the URL [localhost:4200/cart](http://localhost:4200/cart). The page title is "My Cart". At the top, there is a navigation bar with links for ShopForHome, Idols & Figurines, Wall Sculptures, Paintings, Artificial Flowers, Cart, Wishlist, Orders, Navya, and Sign Out. The main content area displays a table of items in the cart:

Photo	Name	Price	Quantity	Subtotal	Action
	Sofa Artificial Flowers with Wood Pot	\$76.00	<input type="button" value="-"/> <input type="button" value="+"/>	\$76.00	<a href="#">Remove</a>
	Iron Wall Hanging Art Sculpture	\$53.00	<input type="button" value="-"/> <input type="button" value="+"/>	\$53.00	<a href="#">Remove</a>
	Buddha wall painting	\$57.00	<input type="button" value="-"/> <input type="button" value="+"/>	\$57.00	<a href="#">Remove</a>

Total: \$186.00

A yellow shopping cart icon is visible on the right side of the page.

# My Orders

The screenshot shows a web browser window with the URL [localhost:4200/order](http://localhost:4200/order). The page title is "Orders". At the top, there is a navigation bar with links for ShopForHome, Idols & Figurines, Wall Sculptures, Paintings, Artificial Flowers, Cart, Wishlist, Orders, Navya, and Sign Out. The main content area displays a table of orders:

Order #	Customer Name	Customer Email	Customer phone	Shipping Address	Total	Order Date	Status	Action
24	Navya	balannavya5@gmail.com	7032511202	Saripalli road	\$186.00	Aug 29, 2022	New	<a href="#">Show</a> <a href="#">Cancel</a>
8	Navya	balannavya5@gmail.com	7032511202	Saripalli road	\$251.00	Aug 26, 2022	New	<a href="#">Show</a> <a href="#">Cancel</a>

At the bottom of the page, there is a footer section with three columns: "OFFICE ADDRESS", "FOLLOW US", and "CONTACT US".

**OFFICE ADDRESS**

Kothapet  
Dilsukhnagar  
Hyderabad

**FOLLOW US**

**CONTACT US**

8008184366  
sushma57@gmail.com  
navyabalam@gmail.com

## Edit Profiles

A screenshot of a web browser window showing the 'Edit Profiles' page for the 'ShopForHome' application. The URL in the address bar is 'localhost:4200/profile'. The page features a header with navigation links: Discount, Users, Stocks, Orders, Admin, and Sign Out. Below the header is the title 'Edit Profiles'. A form is displayed with fields for Email address (admin@eshop.com), Name (Admin), Password (\*\*\*\*\*), Phone (1234567890), and Address (Plot 2, Shivaji Nagar, Bengaluru). A blue 'Update' button is at the bottom of the form. To the right of the form is a decorative image of a yellow shopping cart filled with pink gift bags. The browser's taskbar at the bottom shows other open tabs and system icons.

## Admin Login

A screenshot of a web browser window showing the 'Sign In' page for the 'ShopForHome' application. The URL in the address bar is 'localhost:4200/login'. The page features a header with navigation links: Idols & Figurines, Wall Sculptures, Paintings, Artificial Flowers, Cart, Sign In, and Sign Up. Below the header is the title 'Sign In'. A form is displayed with fields for Email address (admin@eshop.com) and Password (\*\*\*\*\*). There is also a 'Remember me' checkbox and a 'Sign Up' link. A blue 'Sign In' button is at the bottom of the form. To the right of the form is a decorative image of a yellow shopping cart filled with pink gift bags. The browser's taskbar at the bottom shows other open tabs and system icons.

# Admin Products and Bulk Upload

The screenshot shows a web-based administration interface for a product catalog. At the top, there's a navigation bar with links for Discount, Users, Stocks, Orders, Admin, and Sign Out. Below the navigation is a header with the logo "ShopForHome". The main content area is titled "Products". On the left, there's a form for "Choose File" with an "Upload" button. To the right of the upload form is a table listing five products:

Photo	Code	Name	Type	Description	Price	Stock	Status	Action	Mail
	AF001	Glossy Artificial Hanging Wisteria Flower Vine	Artificial Flowers	The flower vine is carefully wired and joined.	\$80.00	38	Available	Edit	Email
	AF002	Soft Artificial Flowers with Wood Pot	Artificial Flowers	Blooming Forest Artificial Cherry Orchid Flower Bunch	\$78.00	75	Available	Edit	Email
	AF003	Artificial Marigold Flower	Artificial Flowers	Decor Wedding Party Garden Craft Wall Home Door Decoration Theme	\$82.00	70	Available	Edit	Email
	AF004	Artificial Rose Flowers Vines	Artificial Flowers	This vivid silk rose flower is great for weddings, festivals, parties	\$50.00	55	Available	Edit	Email
	AF005	Artificial Baby's Breath Gypsophila Flower	Artificial Flowers	These artificial flowers are indistinguishable from real flowers.	\$45.00	30	Available	Edit	Email

A yellow shopping cart icon is positioned on the right side of the table. The bottom of the screen shows a Windows taskbar with various icons and system status information.

# Cloud Deployment- Create VM Instance

The screenshot shows the Google Cloud Platform Compute Engine VM instances page. The top navigation bar includes tabs for VM instances, CREATE INSTANCE, IMPORT VM, and REFRESH. The main content area displays a table of VM instances:

Status	Name	Zone	Recommendations	In use by	Internal IP	Connect
Up	capstoneproject-c3-q2	us-west2-a			10.168.0.2 (nic0)	SSH

Below the table, there's a "Related actions" section with a button to "Explore Actifio GO". A sidebar on the left lists other Compute Engine resources: Virtual machines, Instance templates, Sole-tenant nodes, Machine images, TPUs, Committed use discounts, and Migrate to Virtual Machines. A right-hand panel titled "Select an instance" provides options for PERMISSIONS, LABELS, and MONITORING, with a note that at least one resource must be selected.

Step 1 of 3 - Free trial - Google | Getting started - greatlear-1661 | GitHub - GSushmitha23/Capston | How to update Nodejs and NPM | +

console.cloud.google.com/getting-started?cloudshell=true&project=greatlear-1661340618713

Google Cloud greatlear-1661340618713 ▾ Search Products, resources, docs (/)

CLOUD SHELL Terminal (greatlear-1661340618713) X + Open Editor

```
npm ERR! See /home/sushmitha_ce929f13_5919_4ae7_b3f/.npm/eresolve-report.txt for a full report.

npm ERR! A complete log of this run can be found in:
npm ERR!   /home/sushmitha_ce929f13_5919_4ae7_b3f/.npm/_logs/2022-08-28T07_48_29_407Z-debug-0.log
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~/Capstone-Project-C3-G2/frontend [greatlear-1661340618713]$ npm install 16.10
Downloading and installing node v16.10.0...
Downloading https://nodejs.org/dist/v16.10.0/node-v16.10.0-linux-x64.tar.xz...
Computing checksum with sha256sum
Checksums matched!
Now using node v16.10.0 (npm v7.24.0)
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~/Capstone-Project-C3-G2/frontend [greatlear-1661340618713]$ npm install
npm WARN deprecated @schematics/update@0.13.10: This was an internal-only Angular package up through Angular v11 which is no longer used or maintained. Upgrade Angular to v12+ to remove this dependency.

added 1127 packages, and audited 1128 packages in 3m

3 packages are looking for funding
  run 'npm fund' for details

97 vulnerabilities (4 low, 31 moderate, 51 high, 11 critical)

To address issues that do not require attention, run:
  npm audit fix

To address all issues possible (including breaking changes), run:
  npm audit fix --force

Some issues need review, and may require choosing
a different dependency.

Run 'npm audit' for details.
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~/Capstone-Project-C3-G2/frontend [greatlear-1661340618713]$ ng serve
Your global Angular CLI version (14.2.1) is greater than your local version (7.3.10). The local Angular CLI version is used.

To disable this warning use "ng config -g cli.warnings.versionMismatch false".
(node:2412) [DEP0011] DeprecationWarning: Access to process.binding('http_parser') is deprecated.
(Use `node --trace-deprecation ...` to show where the warning was created)
** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **
10% building modules 3/3 modules 0 active
```

28°C Light rain 1322 28-08-2022

Step 1 of 3 - Free trial - Google | Getting started - greatlear-1661 | GitHub - GSushmitha23/Capston | How to update Nodejs and NPM | +

console.cloud.google.com/getting-started?cloudshell=true&project=greatlear-1661340618713

Google Cloud greatlear-1661340618713 ▾ Search Products, resources, docs (/)

CLOUD SHELL Terminal (greatlear-1661340618713) X + Open Editor

```
npm WARN deprecated @schematics/update@0.13.10: This was an internal-only Angular package up through Angular v11 which is no longer used or maintained. Upgrade Angular to v12+ to remove this dependency.

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  npm audit fix --force

Some issues need review, and may require choosing
a different dependency.

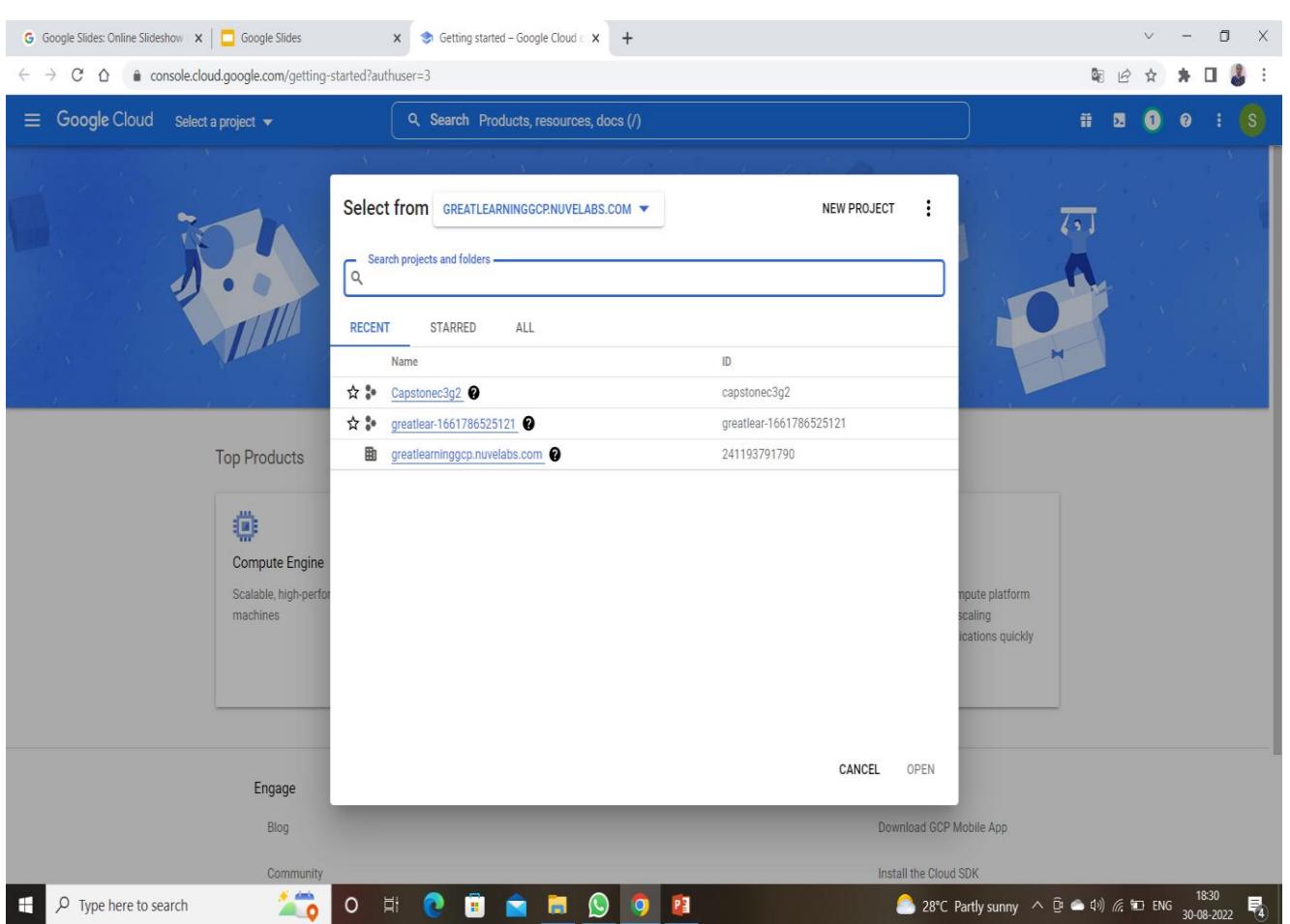
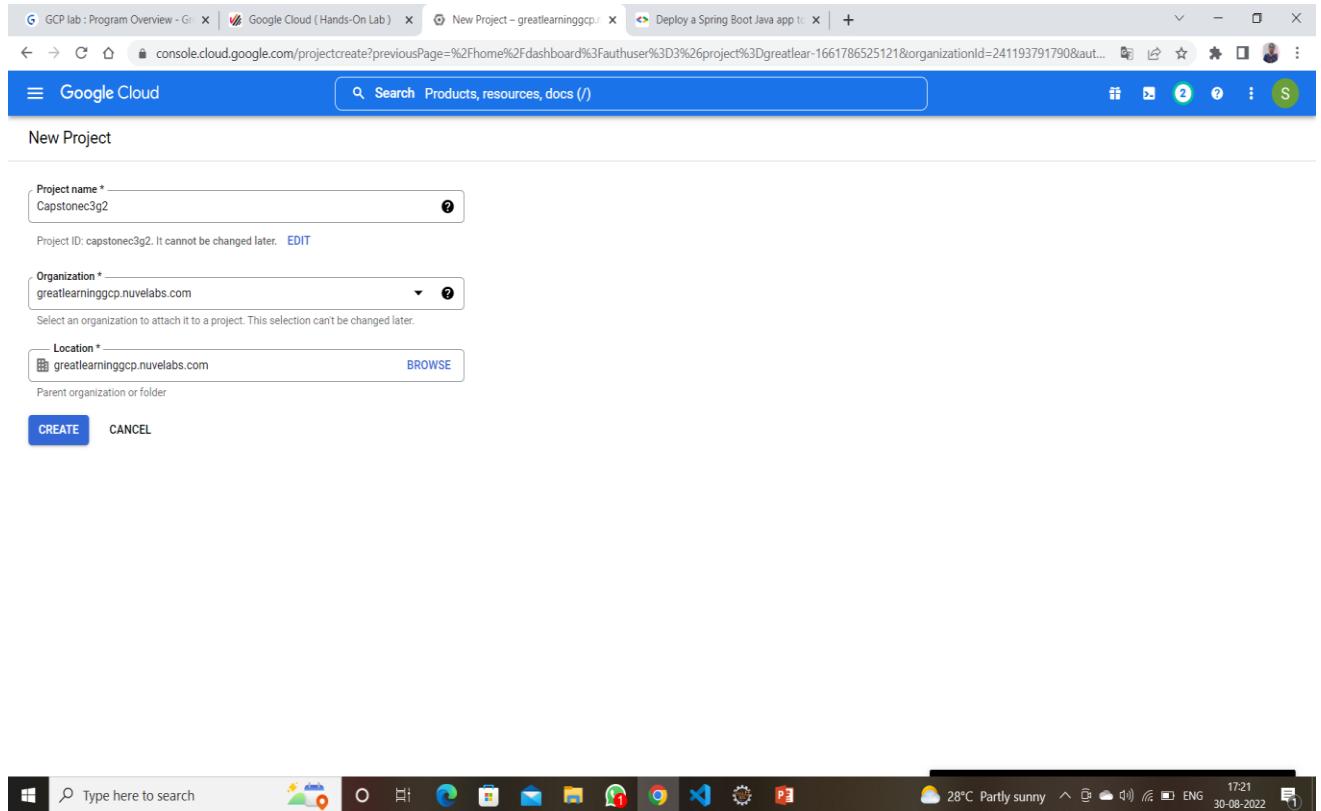
Run 'npm audit' for details.
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~/Capstone-Project-C3-G2/frontend [greatlear-1661340618713]$ ng serve
Your global Angular CLI version (14.2.1) is greater than your local version (7.3.10). The local Angular CLI version is used.

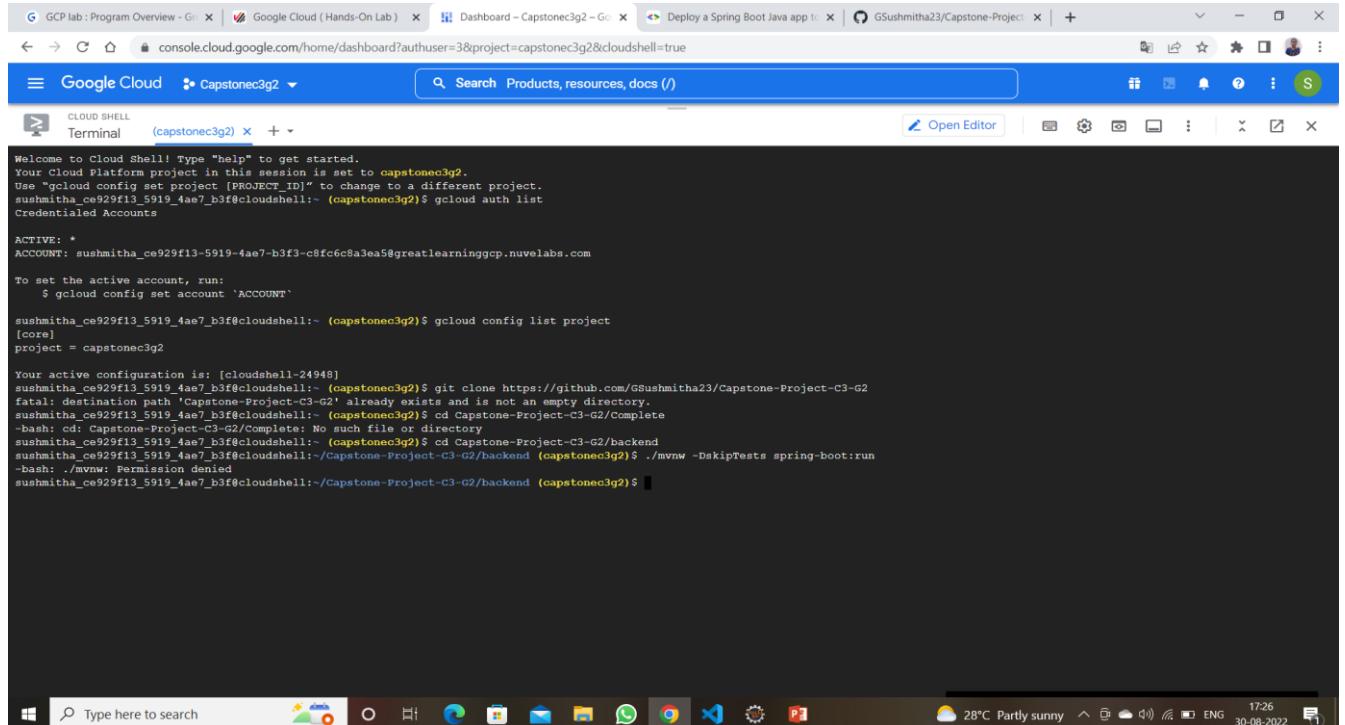
To disable this warning use "ng config -g cli.warnings.versionMismatch false".
(node:2412) [DEP0011] DeprecationWarning: Access to process.binding('http_parser') is deprecated.
(Use `node --trace-deprecation ...` to show where the warning was created)
** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **
18% building modules 70/90 modules 20 active ...d/src/app/pages/user/user.component.cssBrowserslist: caniuse-lite is outdated. Please run next command `npm update caniuse-lite browserslist`
```

Date: 2022-08-28T07:53:09.000Z  
Hash: eb5f7faa8525f3cc0f03  
Time: 17717ms  
chunk {main} main.js, main.js.map (main) 810 kB [initial] [rendered]  
chunk {polyfills} polyfills.js, polyfills.js.map (polyfills) 223 kB [initial] [rendered]  
chunk {runtime} runtime.js, runtime.js.map (runtime) 6.08 kB [entry] [rendered]  
chunk {scripts} scripts.js, scripts.js.map (scripts) 133 kB [rendered]  
chunk {styles} styles.js, styles.js.map (styles) 833 kB [initial] [rendered]  
chunk {vendor} vendor.js, vendor.js.map (vendor) 4.91 MB [initial] [rendered]  
i ｢wds｣: Compiled successfully.

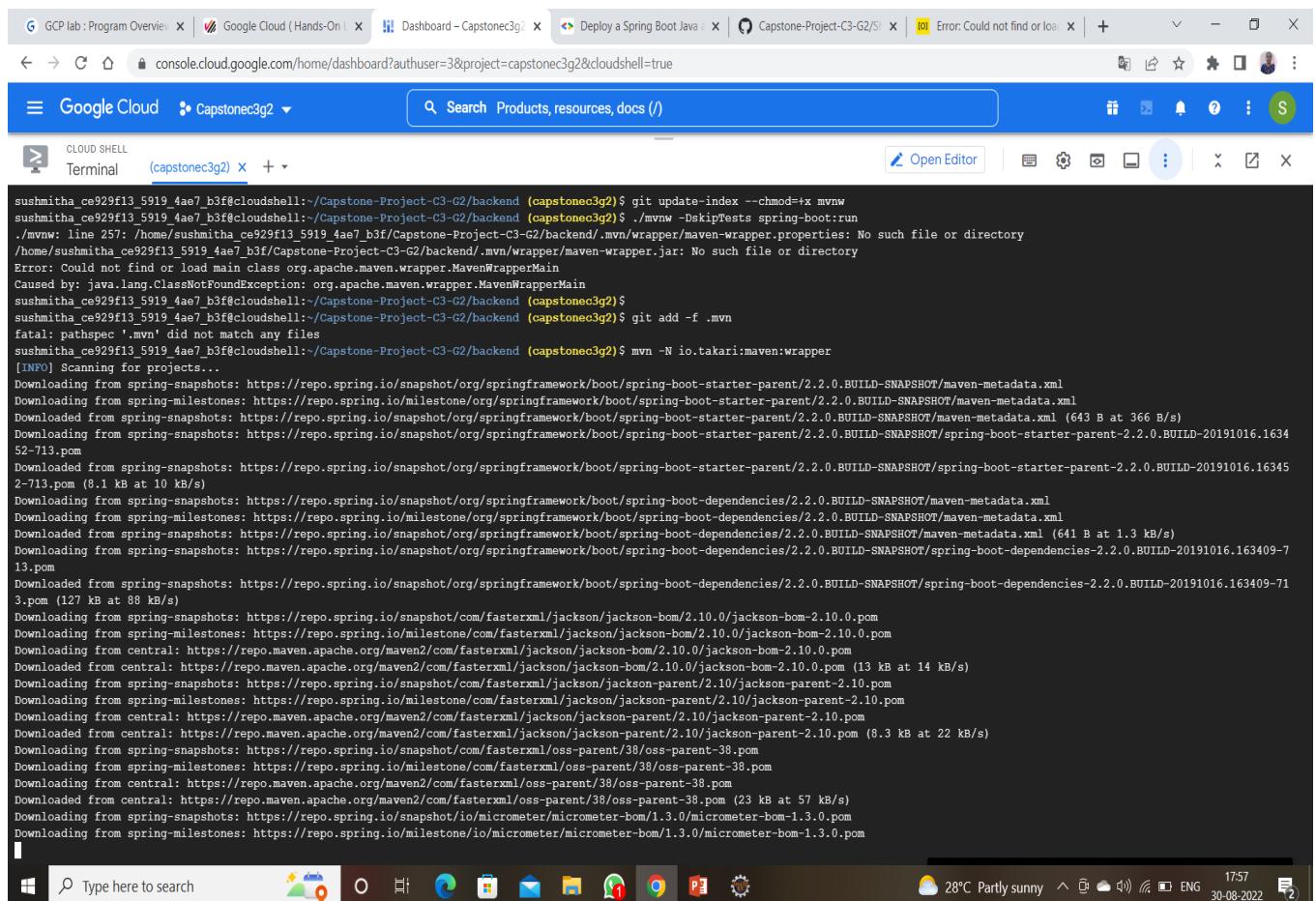
28°C Light rain 1323 28-08-2022

# Created Project





```
Welcome to Cloud Shell! Type "help" to get started.  
Your Cloud Platform project in this session is set to capstonec3g2.  
Use "gcloud config set project [PROJECT_ID]" to change to a different project.  
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~ (capstonec3g2)$ gcloud auth list  
Credentialed Accounts  
  
ACTIVE: *  
ACCOUNT: sushmitha_ce929f13-5919-4ae7-b3f3-c8fc6c8a3ea5@greatlearninggcp.nuvelabs.com  
  
To set the active account, run:  
  $ gcloud config set account 'ACCOUNT'  
  
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~ (capstonec3g2)$ gcloud config list project  
[core]  
project = capstonec3g2  
  
Your active configuration is: [cloudshell-24948]  
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~ (capstonec3g2)$ git clone https://github.com/GSushmitha23/Capstone-Project-C3-G2  
fatal: destination directory 'Capstone-Project-C3-G2' already exists and is not an empty directory.  
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~ (capstonec3g2)$ cd Capstone-Project-C3-G2/Complete  
-bash: cd: Capstone-Project-C3-G2/Complete: No such file or directory  
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~ (capstonec3g2)$ cd Capstone-Project-C3-G2/backend  
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~/Capstone-Project-C3-G2/backend (capstonec3g2)$ ./mvnw -DskipTests spring-boot:run  
-bash: ./mvnw: Permission denied  
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~/Capstone-Project-C3-G2/backend (capstonec3g2)$
```



```
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~/Capstone-Project-C3-G2/backend (capstonec3g2)$ git update-index --chmod=+x mvnw  
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~/Capstone-Project-C3-G2/backend (capstonec3g2)$ ./mvnw -DskipTests spring-boot:run  
./mvnw: line 257: /home/sushmitha_ce929f13_5919_4ae7_b3f/Capstone-Project-C3-G2/backend/.mvn/wrapper/maven-wrapper.properties: No such file or directory  
/home/sushmitha_ce929f13_5919_4ae7_b3f/Capstone-Project-C3-G2/backend/.mvn/wrapper/maven-wrapper.jar: No such file or directory  
Error: Could not find or load main class org.apache.maven.wrapper.MavenWrapperMain  
Caused by: java.lang.ClassNotFoundException: org.apache.maven.wrapper.MavenWrapperMain  
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~/Capstone-Project-C3-G2/backend (capstonec3g2)$  
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~/Capstone-Project-C3-G2/backend (capstonec3g2)$ git add -f .mvn  
fatal: pathspec '.mvn' did not match any files  
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~/Capstone-Project-C3-G2/backend (capstonec3g2)$ mvn -N io.takari:maven:wrapper  
[INFO] Scanning for projects...  
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-starter-parent/2.2.0.BUILD-SNAPSHOT/maven-metadata.xml  
Downloading from spring-milestones: https://repo.spring.io/milestone/org/springframework/boot/spring-boot-starter-parent/2.2.0.BUILD-SNAPSHOT/maven-metadata.xml  
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-starter-parent/2.2.0.BUILD-SNAPSHOT/maven-metadata.xml (643 B at 366 B/s)  
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-starter-parent/2.2.0.BUILD-SNAPSHOT/spring-boot-starter-parent-2.2.0.BUILD-20191016.1634  
52-713.pom  
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-starter-parent/2.2.0.BUILD-SNAPSHOT/spring-boot-starter-parent-2.2.0.BUILD-20191016.16345  
2-713.pom (8.1 kB at 10 kB/s)  
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-dependencies/2.2.0.BUILD-SNAPSHOT/maven-metadata.xml  
Downloading from spring-milestones: https://repo.spring.io/milestone/org/springframework/boot/spring-boot-dependencies/2.2.0.BUILD-SNAPSHOT/maven-metadata.xml  
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-dependencies/2.2.0.BUILD-SNAPSHOT/maven-metadata.xml (641 B at 1.3 kB/s)  
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-dependencies/2.2.0.BUILD-SNAPSHOT/spring-boot-dependencies-2.2.0.BUILD-20191016.163409-7  
13.pom  
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-dependencies/2.2.0.BUILD-SNAPSHOT/spring-boot-dependencies-2.2.0.BUILD-20191016.163409-71  
3.pom (127 kB at 88 kB/s)  
Downloading from spring-snapshots: https://repo.spring.io/snapshot/com/fasterxml/jackson/jackson-bom/2.10.0/jackson-bom-2.10.0.pom  
Downloading from spring-milestones: https://repo.spring.io/milestone/com/fasterxml/jackson/jackson-bom/2.10.0/jackson-bom-2.10.0.pom  
Downloaded from central: https://repo.maven.apache.org/maven2/com/fasterxml/jackson/jackson-bom/2.10.0/jackson-bom-2.10.0.pom  
Downloaded from central: https://repo.maven.apache.org/maven2/com/fasterxml/jackson/jackson-bom/2.10.0/jackson-bom-2.10.0.pom (13 kB at 14 kB/s)  
Downloading from spring-snapshots: https://repo.spring.io/snapshot/com/fasterxml/jackson/jackson-parent/2.10/jackson-parent-2.10.pom  
Downloading from spring-milestones: https://repo.spring.io/milestone/com/fasterxml/jackson/jackson-parent/2.10/jackson-parent-2.10.pom  
Downloaded from central: https://repo.maven.apache.org/maven2/com/fasterxml/jackson/jackson-parent/2.10/jackson-parent-2.10.pom  
Downloaded from central: https://repo.maven.apache.org/maven2/com/fasterxml/jackson/jackson-parent-2.10/jackson-parent-2.10.pom (8.3 kB at 22 kB/s)  
Downloading from spring-snapshots: https://repo.spring.io/snapshot/com/fasterxml/oss-parent/38/oss-parent-38.pom  
Downloading from spring-milestones: https://repo.spring.io/milestone/com/fasterxml/oss-parent/38/oss-parent-38.pom  
Downloaded from central: https://repo.maven.apache.org/maven2/com/fasterxml/oss-parent/38/oss-parent-38.pom  
Downloaded from central: https://repo.maven.apache.org/maven2/com/fasterxml/oss-parent/38/oss-parent-38.pom (23 kB at 57 kB/s)  
Downloading from spring-snapshots: https://repo.spring.io/snapshot/io/micrometer/micrometer-bom/1.3.0/micrometer-bom-1.3.0.pom  
Downloading from spring-milestones: https://repo.spring.io/milestone/io/micrometer/micrometer-bom/1.3.0/micrometer-bom-1.3.0.pom
```

G GCP lab : Program Overview | Google Cloud ( Hands-On | Dashboard - CapstoneC3g2 | Deploy a Spring Boot Java | Capstone-Project-C3-G2/S | Error: Could not find or load | + | - | X

← → C ⌂ console.cloud.google.com/home/dashboard?authuser=3&project=capstonec3g2&cloudshell=true

Google Cloud Capstonec3g2 ▾ Search Products, resources, docs (/)

CLOUD SHELL Terminal (capstonec3g2) + Open Editor

```
Downloading from central: https://repo.maven.apache.org/maven2/com/fasterxml/jackson/core/jackson-databind/2.2.3/jackson-databind-2.2.3.jar
Downloaded from central: https://repo.maven.apache.org/maven2/io/takari/graph/takari-graph/0.0.3/takari-graph-0.0.3.jar (173 kB at 133 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/com/fasterxml/jackson/core/jackson-annotations/2.2.3/jackson-annotations-2.2.3.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.8.1/commons-compress-1.8.1.jar (366 kB at 274 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/com/fasterxml/jackson/core/jackson-core/2.2.3/jackson-core-2.2.3.jar
Downloaded from central: https://repo.maven.apache.org/maven2/com/tinkerpop/blueprints/blueprints/blueprints-core/2.6.0/blueprints-core-2.6.0.jar (274 kB at 175 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-model/3.2.3/maven-model-3.2.3.jar
Downloaded from central: https://repo.maven.apache.org/maven2/com/fasterxml/jackson/core/jackson-annotations/2.2.3/jackson-annotations-2.2.3.jar (33 kB at 20 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/com/github/spullara/mustache/java/compiler/0.8.15/compiler-0.8.15.jar
Downloaded from central: https://repo.maven.apache.org/maven2/com/google/guava/guava/14.0.1/guava-14.0.1.0.1.jar (2.2 MB at 1.3 MB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/com/fasterxml/jackson/core/jackson-core/2.2.3/jackson-core-2.2.3.jar (193 kB at 110 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/com/squareup/javapoet/1.0.0/javapoet-1.0.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/com/takari/antlr/2.7.7/antlr-2.7.7.jar
Downloaded from central: https://repo.maven.apache.org/maven2/com/fasterxml/jackson/core/jackson-databind/2.2.3/jackson-databind-2.2.3.jar (866 kB at 458 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/io/airlift/airline/0.6/airline-0.6.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-model/3.2.3/maven-model-3.2.3.jar (160 kB at 82 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/antlr/antlr4-runtime/4.5/antlr4-runtime-4.5.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/antlr/antlr4-runtime/4.5/antlr4-runtime-4.5.jar (116 kB at 57 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/abego/treelayout/org.abego.treelayout.core/1.0.1/org.abego.treelayout.core-1.0.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/com/squareup/javapoet/1.0.0/javapoet-1.0.0.jar (65 kB at 31 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugin-tools/maven-plugin-annotations/3.3/maven-plugin-annotations-3.3.jar
Downloaded from central: https://repo.maven.apache.org/maven2/io/airlift/airline/0.6/airline-0.6.jar (87 kB at 38 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugin-tools/maven-plugin-annotations/3.3/maven-plugin-annotations-3.3.jar (14 kB at 5.7 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/artifact/3.0/maven-artifact-3.0.jar (52 kB at 20 kB/s)
[INFO]
[INFO] Maven Wrapper version 0.5.6 has been successfully set up for your project.
[INFO] Using Apache Maven: 3.6.3
[INFO] Repo URL in properties file: https://repo.maven.apache.org/maven2
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 03:05 min
[INFO] Finished at: 2022-08-30T12:30:42Z
[INFO]
```

sushmitha\_ce929f13\_5919\_4ae7\_b3f@cloudshell:/ Capstone-Project-C3-G2/backend (capstonec3g2)\$ ./mvnw -DskipTests spring-boot:run

Windows Type here to search 28°C Partly sunny 18:01 30-08-2022

G GCP lab : Program Overview | Google Cloud ( Hands-On | Dashboard - CapstoneC3g2 | Deploy a Spring Boot Java | Capstone-Project-C3-G2/S | Error: Could not find or load | + | - | X

← → C ⌂ console.cloud.google.com/home/dashboard?authuser=3&project=capstonec3g2&cloudshell=true

Google Cloud Capstonec3g2 ▾ Search Products, resources, docs (/)

CLOUD SHELL Terminal (capstonec3g2) + Open Editor

```
[INFO] Scanning for projects...
Downloading from spring-milestones: https://repo.spring.io/milestone/org/springframework/boot/spring-boot-maven-plugin/2.2.0.BUILD-SNAPSHOT/maven-metadata.xml
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-maven-plugin/2.2.0.BUILD-SNAPSHOT/maven-metadata.xml
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-maven-plugin/2.2.0.BUILD-SNAPSHOT/maven-metadata.xml (1.5 kB at 1.1 kB/s)
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-maven-plugin/2.2.0.BUILD-SNAPSHOT/spring-boot-maven-plugin-2.2.0.BUILD-20191016.163417-713.pom
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-maven-plugin/2.2.0.BUILD-SNAPSHOT/spring-boot-maven-plugin-2.2.0.BUILD-20191016.163417-713.pom (5.0 kB at 9.4 kB/s)
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-tools/2.2.0.BUILD-SNAPSHOT/maven-metadata.xml
Downloading from spring-milestones: https://repo.spring.io/milestone/org/springframework/boot/spring-boot-tools/2.2.0.BUILD-SNAPSHOT/maven-metadata.xml
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-tools/2.2.0.BUILD-SNAPSHOT/maven-metadata.xml (634 B at 1.2 kB/s)
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-tools/2.2.0.BUILD-SNAPSHOT/spring-boot-tools-2.2.0.BUILD-20191016.163505-711.pom
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-tools/2.2.0.BUILD-SNAPSHOT/spring-boot-tools-2.2.0.BUILD-20191016.163505-711.pom (1.8 kB at 3.5 kB/s)
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-parent/2.2.0.BUILD-SNAPSHOT/maven-metadata.xml
Downloading from spring-milestones: https://repo.spring.io/milestone/org/springframework/boot/spring-boot-parent/2.2.0.BUILD-SNAPSHOT/maven-metadata.xml
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-parent/2.2.0.BUILD-SNAPSHOT/maven-metadata.xml (635 B at 1.3 kB/s)
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-parent/2.2.0.BUILD-SNAPSHOT/spring-boot-parent-2.2.0.BUILD-20191016.163418-713.pom
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-parent/2.2.0.BUILD-SNAPSHOT/spring-boot-parent-2.2.0.BUILD-20191016.163418-713.pom (1.8 kB at 3.6 kB/s)
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-maven-plugin/2.2.0.BUILD-SNAPSHOT/spring-boot-maven-plugin-2.2.0.BUILD-20191016.163417-713.jar
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/springframework/boot/spring-boot-maven-plugin/2.2.0.BUILD-SNAPSHOT/spring-boot-maven-plugin-2.2.0.BUILD-20191016.163417-713.jar (69 kB at 68 kB/s)
[INFO]
[INFO] -----
[INFO] < me.zhulin:shop-api >
[INFO] Building shop-api 0.0.1-SNAPSHOT
[INFO]
```

[ jac ]

```
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/apache/maven/plugins/maven-resources-plugin/3.1.0/maven-resources-plugin-3.1.0.pom
Downloading from spring-milestones: https://repo.spring.io/milestone/org/apache/maven/plugins/maven-resources-plugin/3.1.0/maven-resources-plugin-3.1.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.1.0/maven-resources-plugin-3.1.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.1.0/maven-resources-plugin-3.1.0.pom (7.2 kB at 9.9 kB/s)
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/apache/maven/plugins/31/maven-plugins-31.pom
Downloading from spring-milestones: https://repo.spring.io/milestone/org/apache/maven/plugins/31/maven-plugins-31.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/31/maven-plugins-31.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/31/maven-plugins-31.pom (10 kB at 28 kB/s)
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/apache/maven/maven-parent/31/maven-parent-31.pom
Downloaded from spring-milestones: https://repo.spring.io/milestone/org/apache/maven/maven-parent/31/maven-parent-31.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/31/maven-parent-31.pom
Progress (1): 2.7/43 kB
```

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```
[ERROR] Re-run Maven using the -X switch to enable full debug logging.
[ERROR]
[ERROR] For more information about the errors and possible solutions, please read the following articles:
[ERROR] [Help 1] http://cwiki.apache.org/confluence/display/MAVEN/MojoFailureException
sushmitha_ce929f13_5919_4ae7_b3f@cloudshell:~/Capstone-Project-C3-G2/backend (capstonec3g2)$ mvnw -DskipTests package
[INFO] Scanning for projects...
[INFO]
[INFO] -----[ me.zhuolin/shop-api ]-----[ INFO ]
[INFO] Building shop-api 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----[ INFO ]
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/apache/maven/plugins/maven-surefire-plugin/2.22.2/maven-surefire-plugin-2.22.2.pom
Downloading from spring-milestones: https://repo.spring.io/milestone/org/apache/maven/plugins/maven-surefire-plugin/2.22.2/maven-surefire-plugin-2.22.2.pom
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.22.2/maven-surefire-plugin-2.22.2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.22.2/maven-surefire-plugin-2.22.2.pom (5.0 kB at 5.4 kB/s)
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/apache/maven/surefire/surefire/2.22.2/surefire-2.22.2.pom
Downloading from spring-milestones: https://repo.spring.io/milestone/org/apache/maven/surefire/surefire/2.22.2/surefire-2.22.2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire/2.22.2/surefire-2.22.2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire/2.22.2/surefire-2.22.2.pom (26 kB at 62 kB/s)
Downloading from spring-snapshots: https://repo.spring.io/snapshot/org/apache/maven/plugins/maven-surefire-plugin/2.22.2/maven-surefire-plugin-2.22.2.jar
Downloading from spring-milestones: https://repo.spring.io/milestone/org/apache/maven/plugins/maven-surefire-plugin/2.22.2/maven-surefire-plugin-2.22.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.22.2/maven-surefire-plugin-2.22.2.jar (41 kB at 95 kB/s)
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/apache/maven/plugins/maven-jar-plugin/3.1.2/maven-jar-plugin-3.1.2.pom
Downloading from spring-milestones: https://repo.spring.io/milestone/org/apache/maven/plugins/maven-jar-plugin/3.1.2/maven-jar-plugin-3.1.2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.1.2/maven-jar-plugin-3.1.2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.1.2/maven-jar-plugin-3.1.2.pom (7.3 kB at 19 kB/s)
Downloaded from spring-snapshots: https://repo.spring.io/snapshot/org/apache/maven/plugins/maven-jar-plugin/3.1.2/maven-jar-plugin-3.1.2.jar
Downloading from spring-milestones: https://repo.spring.io/milestone/org/apache/maven/plugins/maven-jar-plugin/3.1.2/maven-jar-plugin-3.1.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.1.2/maven-jar-plugin-3.1.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.1.2/maven-jar-plugin-3.1.2.jar (28 kB at 72 kB/s)
[INFO]
[INFO] --- maven-resources-plugin:3.1.0:resources (default-resources) @ shop-api ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 2 resources
[INFO] Copying 1 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ shop-api ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 62 source files to /home/sushmitha_ce929f13_5919_4ae7_b3f/Capstone-Project-C3-G2/backend/target/classes
```

## **12. Challenges**

- Compatibility with browsers like Mozilla Firefox, Internet explorer etc
- Using a layered approach in developing the application which would make the application maintainable.
- Learning new technologies like using Spring Boot behavior and Angular . The overall idea of doing this project is to get a real time experience. Learn new technologies.

## **13. Conclusion**

The ‘Online Shopping’ is designed to provide a web based application that would make searching, viewing and selection of a product easier. The search engine provides an easy and convenient way to search for products where a user can Search for a product interactively and the search engine would refine the products available based on the user’s input. The user can then view the complete specification of each product. They can also view the product reviews and also write their own reviews.

## **13. Future Scope**

The following things can be done in future.

- The current system can be extended to allow the users to create accounts and save products in to wish list.
- The users could subscribe for price alerts which would enable them to receive messages when price for products fall below a particular level.
- The current system is confined only to the shopping cart process. It can be extended to have an easy to use check out process.
- Users can have multiple shipping and billing information saved. During checkout they can use the drag and drop feature to select shipping and billing information.