

**A REPORT ON CAPSTONE PROJECT ENTITLED**  
**SHOP FOR HOME**  
**AN E-COMMERCE WEB APPLICATION BY USING JAVA-GCP**

Submitted to  
**GREAT LEARNING**



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## **Abstract**

In today's generation, most people are using technology for leading their lives and fulfilling their daily needs. In this generation, most of us using E-commerce websites for shopping for clothes, groceries, and electronics. We have developed one E-commerce web application by using Full stack java technology as it contains HTML, CSS, Angular, Java Script, Spring Boot, Node.JS platform. This application is fully functional with different views for user and admin and it also has integrated with payment gateway for checkout. By using this website we can buy different types of décor accessories and we can choose different styles of products based upon customer interests. In this project, we can add different products and can delete them also. We have developed administrative functions for the website such as create a product, create categories, Admin dashboard, Manage products, Manage categories. For customers, they can quickly add their items to the cart. Based on the items in the cart then the bill gets generate.

## CHAPTER 1 INTRODUCTION

We all know that technology has become an essential tool for online marketing these days. If we see all over the world most of the people are showing interest to buy things in online. However, we can see that there are many small shops and grocery stores are selling their things offline. With this type of selling most of us will face bad experience. for instance, in some shops seller has the product to sell in the offer but the buyer may not know about it, or the customer may need the product urgently then he will go to the shop, but the product is out of stock, in that case, he will face bad experience. Moreover, in online shopping customers can select a wide range of products based upon their interests and their price also, one can compare prices also from one store to another by using online shopping

.

By encountering the all problems and weaknesses of the offline shopping system, creating an E-commerce web application is necessary for searching and shopping in each shop. These days we have seen so many e-commerce websites are created like Flipkart, Amazon, Myntra one can easily buy their necessary products by using these websites. By using these types of websites one can buy their products by staying in their home. Eventually, we can see the difference between the prices of products also as if we see the cost of the product will be slightly high in offline shopping when compared to online shopping.

For creating these types of E-commerce web applications Java full stack will be the best option that can help us for creating the most effective and powerful web applications.

## CHAPTER 2

### PROBLEM STATEMENT

Project Name – Shop For Home

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 online platforms and wants their own web application.

There are 2 users on the application: -

1. User
2. Admin

User Stories :

1. As a user I should be able to login, Logout and Register into the application.
2. As a user I should be able to see the products in different categories.
3. As a user I should be able to sort the products.
4. As a user I should be able to add the products into the shopping cart.
5. As a user I should be able to increase or decrease the quantity added in the cart.
6. As a user I should be able to add “n” number of products in the cart.
7. As a user I should be able to get the Wishlist option where I can add those products which I want but don't want to order now
8. As a user I should get different discount coupons.

Admin Stories :

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

Instructions –

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

# **CHAPTER 3**

## **FEATURES AND TECHNOLOGIES USED**

### **FEATURES**

A full-stack Online Shop web application using Spring Boot 2 and Angular 7.

This is a Single Page Application with client-side rendering. It includes backend and frontend two separate projects on different branches.

The frontend client makes API calls to the backend server when it is running.

Features

- REST API
- JWT authentication
- Cookie based visitors' shopping cart
- Persistent customers' shopping cart
- Cart & order management
- Checkout
- Catalogue
- Order management

### **TECHNOLOGY STACKS**

#### **Backend**

- Java 11
- Spring Boot 2.2
- Spring Security
- JWT Authentication
- Spring Data JPA
- Hibernate

- PostgreSQL

- Maven

## **Frontend**

- Angular 7

- Angular CLI

- Bootstrap

## **Database Schema**

Install PostgreSQL -> after installation -> search PGAdmin

Open Admin -> give password which you provide at the time of installation.

Create Database with name "ecommerce". Then run queries provided in eshop.sql script one by one.

## **How to Run**

Start the backend server before the frontend client.

### **\*Backend\***

1. Install [Eclipse](<https://www.Eclipse.org/download/>)
2. Configure data source in `application.yml`.
3. `cd backend`.
4. Run `java install`.
5. Run `mvn spring-boot:run`.
6. Spring Boot will import mock data into database by executing `import.sql` automatically.
7. The backend server is running on [localhost:4200]().

### **\*Frontend\***

1. Install [Node.js and npm](<https://www.npmjs.com/get-npm>)
2. `cd frontend`.
3. Run `npm install`.

4. Run `ng serve`

5. The frontend client is running on [localhost:4200]()

Note: The backend API url is configured in `src/environments/environment.ts` of the frontend project. It is `localhost:8080/api` by default.

1. Build backend project bash

```
cd backend mvn package
```

2. Build frontend project bash

```
cd frontend npm install alias
```

```
ng="node_modules/@angular/cli/b
```

```
in/ng" ng build---prod.
```

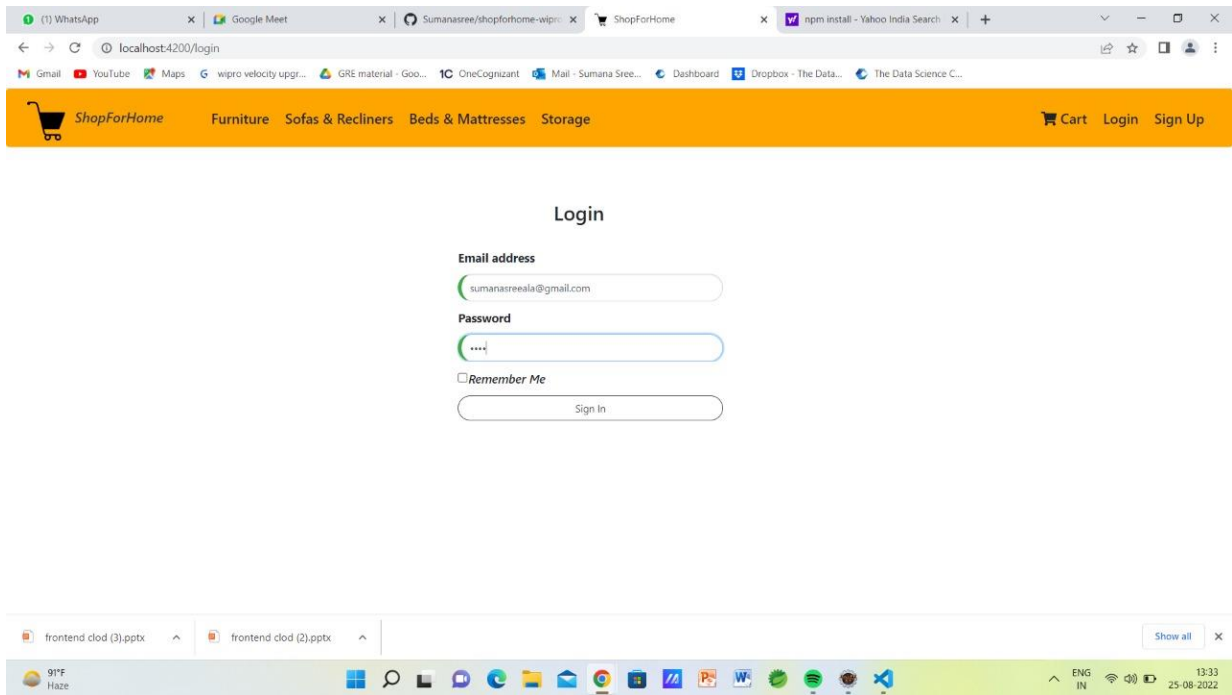


## 1. User login

### Default log in details:

User Name: [sumanasreeala@gmail.com](mailto:sumanasreeala@gmail.com)

Password: suma

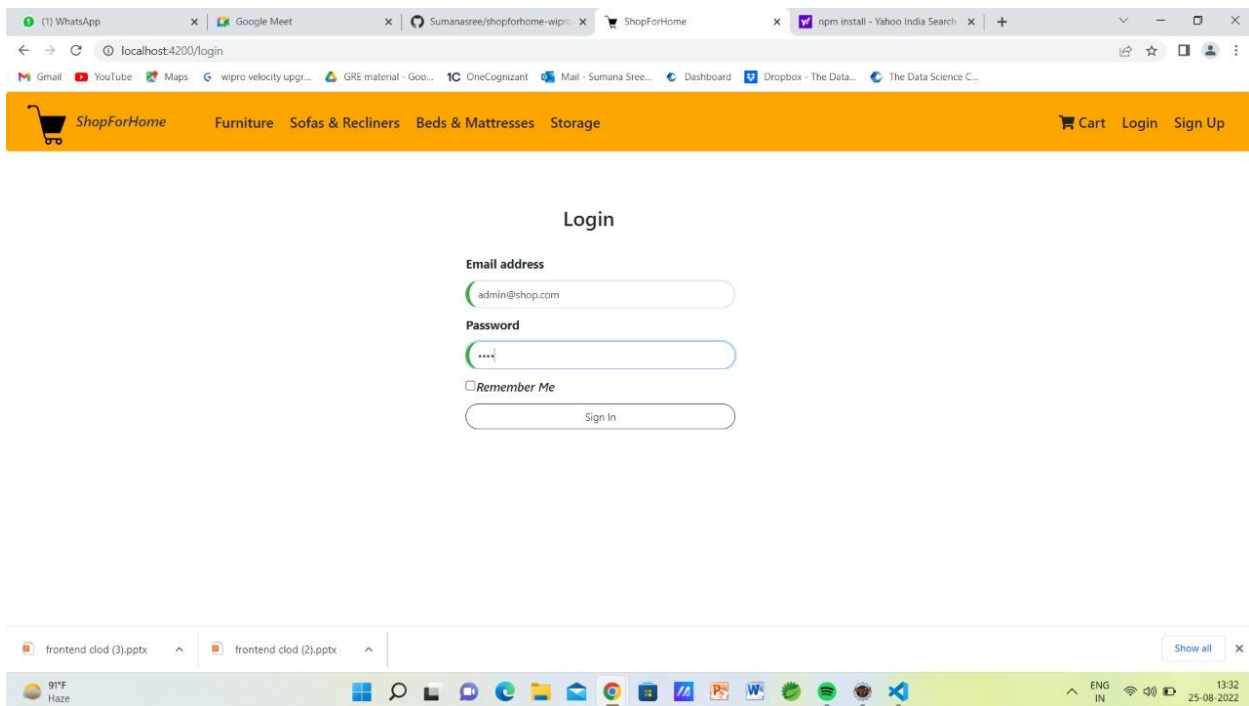


## 2.Admin login

- Default Admin Login

User Name :[admin@shop.com](mailto:admin@shop.com)

Password - 1234



ShopForHome Furniture Sofas & Recliners Beds & Mattresses Storage Cart Login Sign Up

### Login

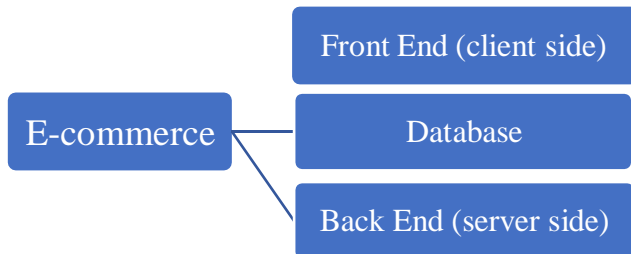
Email address  
admin@shop.com

Password  
....

☐ Remember Me

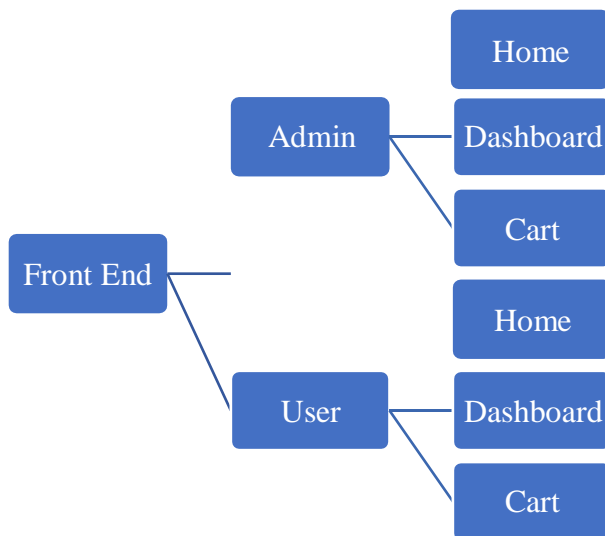
Sign In

## CHAPTER-4 WEB APPLICATION STRUCTURE



Creation of an E-commerce application includes Front End(client side) operations and Database for storing the Data and Back End (server side) operations.

### FRONT END (CLIENT SIDE) OPERATIONS :



## Home Page:

The home page of the web Application mainly contains a list of the products which are saved in the database. And there some options that will be in the menu bar if the user does not sign in/login in yet then "Sign in" and "Sign up" options will be there. The home page will show you all types of products and they will be displayed to customers, for example, this homepage has types of décor items such as sofa, Table lamp, If we want to add another type of product we can simply add a wide range of products, we can give different prices for different products based upon their quality, customers have the facility to add the product to the cart which they like, the customer will have another facility to

contact the admin if he has any issues regarding products, prices, and any other issues all these things have appeared preview image is mentioned below:

## Sign in and Sign up

These two-option redirect to the page where the user can find a form to fill either to create an account or to sign in to an account.

## Dashboard:

This page will be different for the user. Admin Dashboard will have a chance to create some categories and can add products to those categories, as well as admin can delete products and he can change prices also.

## Cart

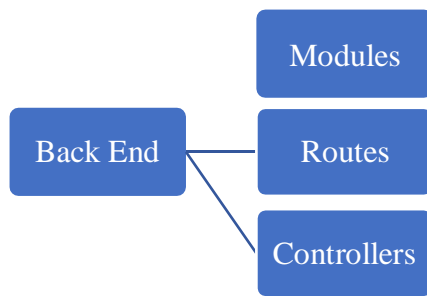
After selecting any product users can see their product on this page and here the payment will be carried on. Stripe Payment is included for the cart which was a third-party tool that helps users to done payment by some debit cards, credit cards, UPI's.

## DATABASE:



Data that is entered by the users will be stored in the database. There are so many databases are been used nowadays. In this project, we have MongoDB as a database. Using the mongoose library, we can connect to SQL. There are so many methods in this library to create schema and also to save the data in the database.

## BACK-END:

**Models:**

Here we define the structure of the data that should be in the database. By using some models which help to store the data in the database like mongoose, it is one of the famous libraries in NodeJS. Creating the schemas by database Schema with Connecting the names and type

**Routers:**

All the work related to the routing of the pages was done here. Angular ,JS is a popular library for routing. CURD operations and routing-related code are saved in this folder.

**Controllers:**

In controllers, the definitions of the functions which are declared in the routing will be stored and also the codes of the middleware are stored in this folder.

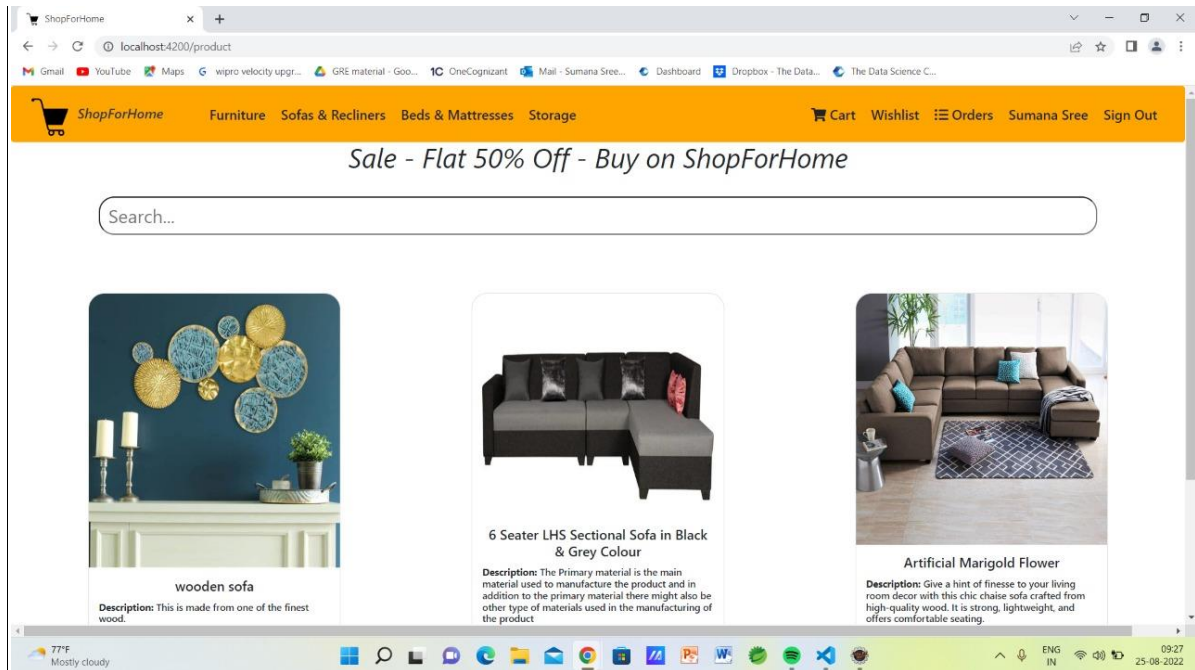
In the controller phase, the function definitions of the function which are declared in the Routers will be done. We are having some middleware also defined here.

**5. ONLINE SHOPPING APPLICATION:**

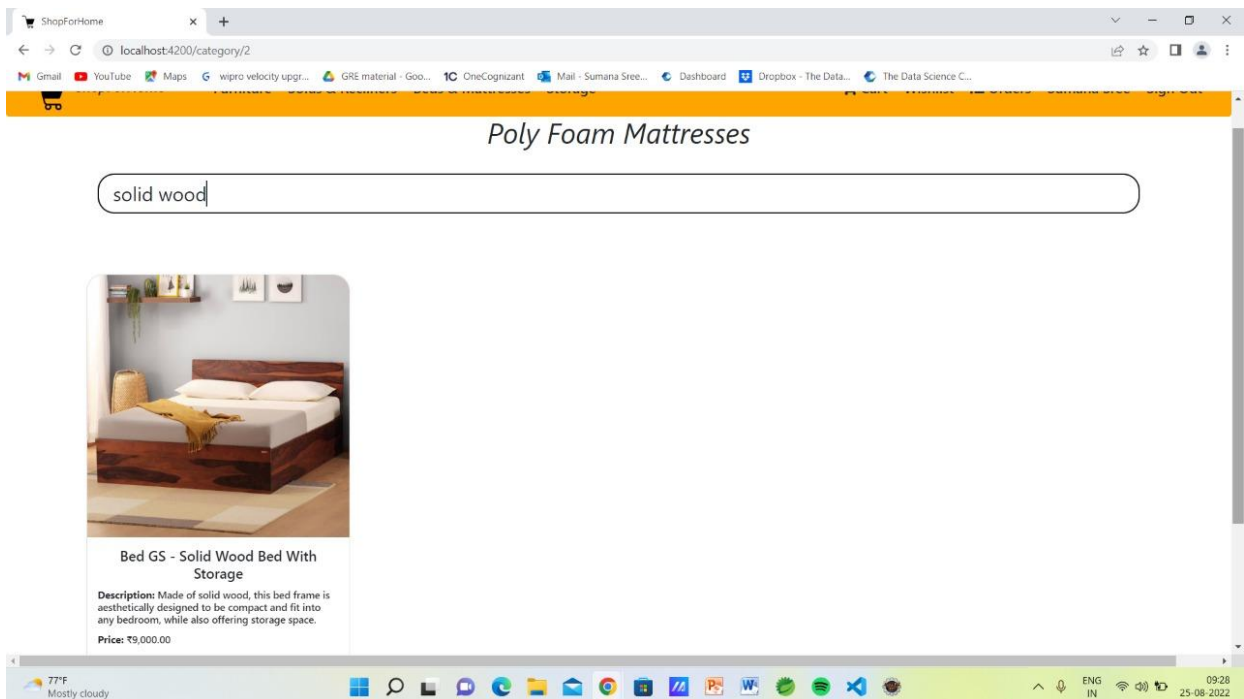
Anyone can view Online Shopping portal and available products, but every user must login by his/her Username and password in order to purchase or order products. Unregistered members can register by navigating to registration page. Only Admin will have access to modify roles, by default developer can only be an 'Admin'. Once user register site, his default role will be 'User'.

**HOMEPAGE:**

The Home Screen will consist of screen where one can Login Into the application.



**Search Page:** Here visitors can go through the toys available in the store. And even search in the search bar for a specific item.



**Sign Up Page:** If the user does not have a account he can create a account by providing his/her credentials. The account created will be a user account.

ShopForHome Furniture Sofas & Recliners Beds & Mattresses Storage Cart Login Sign Up

### Sign Up

**Email address**  
Enter email

**Name**  
Your name

**Password**  
Password

**Phone**  
Phone

**Address**  
Address

Sign Up

**Product Page:** In this a admin can add update and delete the products.

ShopForHome Discount Users Stocks Orders Admin Sign Out

### Products

Choose File No file chosen Upload

Photo	Code	Name	Type	Description	Price	Stock	Status	Action	Mail
	AF001	wooden sofa	Sofa	This is made from one of the finest wood.	₹10,000.00	18	Available	Edit	email
	AF002	6 Seater LHS Sectional Sofa in Black & Grey Colour	Sofa	The Primary material is the main material used to manufacture the product and in addition to the primary material there might also be other type of materials used in the manufacturing of the product	₹40,000.00	69	Available	Edit	email
	AF003	Artificial Marigold Flower	Sofa	Give a hint of finesse to your living room decor with this chic chaise sofa crafted from high-quality wood. It is strong, lightweight, and offers comfortable seating.	₹15,000.00	20	Available	Edit	email
	IF001	Wenge Engineered Wood Braine Shelf	Shelf	This wall dcor and corner shelf come with a unique design that fits perfectly on your home and office walls.	₹1 500 00	22	Available	Edit	email

## Sales Or Orders:

ShopForHome

localhost:4200/order

Discount Users Stocks Orders Admin Sign Out

### Orders

Order #	Customer Name	Customer Email	Customer phone	Shipping Address	Total	Order Data	Status	Action
3	Sumana Sree	sumanasreeala@gmail.com	9704389300	A-Camp	₹50,000.00	Aug 22, 2022	New	Show Cancel Finish
1	Sumana Sree	sumanasreeala@gmail.com	9704389300	A-Camp	₹40,000.00	Aug 20, 2022	New	Show Cancel Finish
2	Sumana Sree	sumanasreeala@gmail.com	9704389300	A-Camp	₹139,500.00	Aug 22, 2022	Canceled	Show

Previous 1 Next

**Discounts:** Here Discounts Feature also added are available to buy product from Shop for Home.



ShopForHome

localhost:4200/cart

Furniture Sofas & Recliners Beds & Mattresses Storage

Cart Wishlist Orders Sumana Sree Sign Out

### My Cart

Photo	Name	Price	Quantity	Subtotal	Action
	Bed V5 - Sheesham Wood Bed With Storage	₹9,500.00	1	₹9,500.00	Remove
	6 Seater LHS Sectional Sofa in Black & Grey Colour	₹40,000.00	1	₹40,000.00	Remove

flat50

Coupon Applied : flat50

Total: ₹39,600.00

Order Now





**Cart Services:** Here User can add the products in Cart As shown in figure Below.

ShopForHome

FurnitureSofas & ReclinersBeds & MattressesStorage

CartWishlistOrdersSumana SreeSign Out

My Cart

Photo	Name	Price	Quantity	Subtotal	Action
	Bed VS - Sheesham Wood Bed With Storage	₹9,500.00	1	₹9,500.00	<a href="#">Remove</a>
	6 Seater LHS Sectional Sofa in Black & Grey Colour	₹40,000.00	1	₹40,000.00	<a href="#">Remove</a>

Coupon Applied :

Total: ₹49,500.00

Order Now


**Wishlist:** Here user can see record of all the items in wish list.

ShopForHome

FurnitureSofas & ReclinersBeds & MattressesStorage

CartWishlistOrdersSumana SreeSign Out

My WishList

Photo	ID	Name	Price	Action
	AF002	6 Seater LHS Sectional Sofa in Black & Grey Colour	₹40,000.00	<a href="#">Remove</a>

localhost:4200/wishlist

77°F Mostly cloudy



ENG IN 09:29 25-08-2022

# Deploying in to GCP:

Create an instance - Compute Engine

console.cloud.google.com/compute/instances/Add?project=greatlear-1661338985446

Start your Free Trial with \$300 in credit. Don't worry—you won't be charged if you run out of credits. [Learn more](#)

DISMISS ACTIVATE

Google Cloud greatlear-1661338985446 Search Products, resources, docs (/)

Create an instance HELP ASSISTANT

To create a VM instance, select one of the options:

- New VM instance  
Create a single VM instance from scratch
- New VM instance from template  
Create a single VM instance from an existing template
- New VM instance from machine image  
Create a single VM instance from an existing machine image
- Marketplace  
Deploy a ready-to-go solution onto a VM instance

Name \*  
my-instance

Labels  
+ ADD LABELS

Region \*  
us-west2 (Los Angeles)  
Region is permanent

Zone \*  
us-west2-a  
Zone is permanent

Monthly estimate  
**\$30.58**  
That's about \$0.04 hourly  
Pay for what you use: No upfront costs and per second billing

Item	Monthly estimate
2 vCPU + 4 GB memory	\$29.38
10 GB balanced persistent disk	\$1.20
Sustained use discount	-\$0.00
Total	\$30.58

[Compute Engine pricing](#)  
[^ LESS](#)

Machine configuration

Machine family  
GENERAL-PURPOSE COMPUTE-OPTIMIZED MEMORY-OPTIMIZED GPU

Machine types for common workloads, optimized for cost and flexibility

Series  
E2

CPU platform selection based on availability

Machine type  
e2-medium (2 vCPU, 4 GB memory)

vCPU  
1-2 vCPU (1 shared core)

Memory  
4 GB

Create an instance - Compute Engine

console.cloud.google.com/compute/instances/Add?project=greatlear-1661338985446

Start your Free Trial with \$300 in credit. Don't worry—you won't be charged if you run out of credits. [Learn more](#)

DISMISS ACTIVATE

Google Cloud greatlear-1661338985446 Search Products, resources, docs (/)

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Create a single VM instance from an existing template
- New VM instance from machine image  
Create a single VM instance from an existing machine image
- Marketplace  
Deploy a ready-to-go solution onto a VM instance

Name  
my-instance

Type  
e2-medium

Size  
4 GB

License type  
Image

CHANGE

Identity and Access

Service accounts  
Compute Engine default service account

Access scopes  
☒ Allow default access to Cloud APIs and storage ☐ Allow full access to Cloud APIs and storage ☐ Set access for each API individually

Firewall

Boot disk

Select an image or snapshot to create a boot disk; or attach an existing disk. Can't find what you're looking for? Explore hundreds of VM solutions in [Marketplace](#)

Make sure all fields are correct to continue

PUBLIC IMAGES CUSTOM IMAGES SNAPSHOTS EXISTING DISKS

Operating system  
Ubuntu

Version \*  
Ubuntu 18.04 LTS  
x86\_64, amd64 bionic image built on 2022-08-10, supports Shielded VM features

Boot disk type \*  
Balanced persistent disk

Size (GB) \*  
10

SHOW ADVANCED CONFIGURATION

SELECT CANCEL

VM instances - Compute Engine

console.cloud.google.com/compute/instances?onCreate=true&project=greatlear-1661338985446

Google Cloud greatlear-1661338985446

Compute Engine VM instances

Virtual machines

- VM instances
- Instance templates
- Sole-tenant nodes
- Machine images
- TPUs
- Committed use discounts
- Migrate to Virtual Machin...

Storage

- Disks
- Marketplace
- Release Notes

INSTANCES INSTANCE SCHEDULES

VM instances are highly configurable virtual machines for running workloads on Google infrastructure. [Learn more](#)

Filter Enter property name or value

Status	Name	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input checked="" type="checkbox"/>	my-instance	us-west2-a			10.168.0.3 (nic0)	35.227.14.102	SSH

Related actions

Explore Actifio GO  
Back up your VMs and set up disaster recovery

Select an instance

PERMISSIONS LABELS MONITORING

Please select at least one resource.

91°F Cloudy

ENG IN 13:45 25-08-2022

https://ssh.cloud.google.com/v2/ssh/projects/greatlear-1661338985446/zones/us-west2-a/instances/my-instance?authuser=0&hl=en\_US&projectNumber=885094796639&nonAdminProxySessionReason=1&troubleshoot4005Enabled=true&troubleshoot255...

SSH-in-browser

Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 5.4.0-1086-gcp x86\_64)

\* Documentation: <https://help.ubuntu.com>  
\* Management: <https://landscape.canonical.com>  
\* Support: <https://ubuntu.com/advantage>

System information as of Thu Aug 25 09:10:19 UTC 2022

System load: 0.08 Processes: 109  
Usage of /: 20.8% of 9.51GB Users logged in: 0  
Memory usage: 6% IP address for ens4: 10.168.0.3  
Swap usage: 0%

6 updates can be applied immediately.  
4 of these updates are standard security updates.  
To see these additional updates run: apt list --upgradable

New release '20.04.4 LTS' available.  
Run 'do-release-upgrade' to upgrade to it.

Last login: Thu Aug 25 08:33:11 2022 from 172.253.211.63  
a\_sumana\_e3bc70d0\_8129\_4221\_8956my-instance:~\$ sudo apt update  
Hit:1 http://deb.nodesource.com/node\_14.x bionic InRelease  
Hit:2 http://us-west2.gce.archive.ubuntu.com/ubuntu bionic InRelease  
Get:3 http://us-west2.gce.archive.ubuntu.com/ubuntu bionic-updates InRelease [89.7 kB]  
Get:4 http://us-west2.gce.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]  
Hit:5 http://security.ubuntu.com/ubuntu bionic-security InRelease  
Fetched 163 kB in 0s (328 kB/s)  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
7 packages can be upgraded. Run 'apt list --upgradable' to see them.  
a\_sumana\_e3bc70d0\_8129\_4221\_8956my-instance:~\$

89°F Rain coming

ENG IN 14:56 25-08-2022

```
https://ssh.cloud.google.com/v2/ssh/projects/greatlear-1661338985446/zones/us-west2-a/instances/my-instance?authuser=0&hl=en_US&projectNumber=885094796639&nonAdminProxySessionReason=1&troubleshoot4005Enabled=true&troubleshoot255...
SSH-in-browser

Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 5.4.0-1086-gcp x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
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4 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

New release '20.04.4 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Thu Aug 25 08:33:11 2022 from 172.253.211.63
a_sumana_e3bc70d0_8129_4221_895@my-instance:~$ sudo apt update
Hit:1 https://deb.nodesource.com/node_14.x bionic InRelease
Hit:2 http://us-west2.gce.archive.ubuntu.com/ubuntu bionic InRelease
Get:3 http://us-west2.gce.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:4 http://us-west2.gce.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Hit:5 http://security.ubuntu.com/ubuntu bionic-security InRelease
Fetched 163 kB in 0s (328 kB/s)
Reading package lists... Done
Building dependency tree
Building dependency tree
Reading state information... Done
7 packages can be upgraded. Run 'apt list --upgradable' to see them.
a_sumana_e3bc70d0_8129_4221_895@my-instance:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
apache2 is already the newest version (2.4.29-1ubuntu4.25).
The following package was automatically installed and is no longer required:
  libnumal
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 7 not upgraded.
a_sumana_e3bc70d0_8129_4221_895@my-instance:~$
```

```
https://ssh.cloud.google.com/v2/ssh/projects/greatlear-1661338985446/zones/us-west2-a/instances/my-instance?authuser=0&hl=en_US&projectNumber=885094796639&nonAdminProxySessionReason=1&troubleshoot4005Enabled=true&troubleshoot255...
SSH-in-browser

libnumal
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 7 not upgraded.
a_sumana_e3bc70d0_8129_4221_895@my-instance:~$ sudo apt-get install nodejs
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libc-ares2 libhttp-parser2.7-1 libnumal
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  libpython-stdlib libpython2.7-minimal libpython2.7-stdlib python python-minimal python2.7 python2.7-minimal
Suggested packages:
  python-doc python-tk python2.7-doc binutils binfmt-support
The following packages will be REMOVED:
  nodejs-doc
The following NEW packages will be installed:
  libpython-stdlib libpython2.7-minimal libpython2.7-stdlib python python-minimal python2.7 python2.7-minimal
The following packages will be upgraded:
  nodejs
1 upgraded, 7 newly installed, 1 to remove and 6 not upgraded.
Need to get 29.5 MB of archives.
After this operation, 116 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 https://deb.nodesource.com/node_14.x bionic/main amd64 nodejs amd64 14.20.0-1nodesource1 [25.5 MB]
Get:2 http://us-west2.gce.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython2.7-minimal amd64 2.7.17-1-18.04ubuntu1.8 [336 kB]
Get:3 http://us-west2.gce.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python2.7-minimal amd64 2.7.17-1-18.04ubuntu1.8 [1289 kB]
Get:4 http://us-west2.gce.archive.ubuntu.com/ubuntu bionic/main amd64 python-minimal amd64 2.7.15-rc1-1 [28.1 kB]
Get:5 http://us-west2.gce.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython2.7-stdlib amd64 2.7.17-1-18.04ubuntu1.8 [1916 kB]
Get:6 http://us-west2.gce.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python2.7 amd64 2.7.17-1-18.04ubuntu1.8 [248 kB]
Get:7 http://us-west2.gce.archive.ubuntu.com/ubuntu bionic/main amd64 libpython-stdlib amd64 2.7.15-rc1-1 [7620 B]
Get:8 http://us-west2.gce.archive.ubuntu.com/ubuntu bionic/main amd64 python amd64 2.7.15-rc1-1 [140 kB]
Fetched 29.5 MB in 1s (51.3 MB/s)
(Reading database ... 67399 files and directories currently installed.)
Removing nodejs-doc (8.10.0-dfsg-2ubuntu0.4) ...
Selecting previously unselected package libpython2.7-minimal:amd64.
(Reading database ... 67285 files and directories currently installed.)
Preparing to unpack .../0-libpython2.7-minimal_2.7.17-1-18.04ubuntu1.8_amd64.deb ...
Unpacking libpython2.7-minimal:amd64 (2.7.17-1-18.04ubuntu1.8) ...
Selecting previously unselected package python2.7-minimal.
Preparing to unpack .../1-python2.7-minimal_2.7.17-1-18.04ubuntu1.8_amd64.deb ...
Unpacking python2.7-minimal (2.7.17-1-18.04ubuntu1.8) ...
Selecting previously unselected package python-minimal.

```



```
https://ssh.cloud.google.com/v2/ssh/projects/greatlear-1661338985446/zones/us-west2-a/instances/my-instance?authuser=0&hl=en_US&projectNumber=885094796639&nonAdminProxySessionReason=1&troubleshoot4005Enabled=true&troubleshoot255...
ssh.cloud.google.com/v2/ssh/projects/greatlear-1661338985446/zones/us-west2-a/instances/my-instance?authuser=0&hl=en_US&projectNumber=885094796639&nonAdminProxySessionReason=1&troubleshoot4005Enabled=true&troub...
SSH-in-browser

Did you mean one of these?
  install
  uninstall
a_sumana_e3bc70d0_8129_4221_895@my-instance:~$ y
y: command not found
a_sumana_e3bc70d0_8129_4221_895@my-instance:~$ install
install: missing file operand
Try 'install --help' for more information.
a_sumana_e3bc70d0_8129_4221_895@my-instance:~$ install
install: missing file operand
Try 'install --help' for more information.
a_sumana_e3bc70d0_8129_4221_895@my-instance:~$ sudo npm install -g @angular/cli
/usr/bin/ng -> /usr/lib/node_modules/@angular/cli/bin/ng.js
+ @angular/cli@14.1.3
updated 1 package in 8.16s
a_sumana_e3bc70d0_8129_4221_895@my-instance:~$ git clone https://github.com/Sumanasree/shopforhome-wiprocapstone.git
fatal: destination path 'shopforhome-wiprocapstone' already exists and is not an empty directory.
a_sumana_e3bc70d0_8129_4221_895@my-instance:~$ cd project/
-bash: cd: project/: No such file or directory
a_sumana_e3bc70d0_8129_4221_895@my-instance:~$ ls
shopforhome-wiprocapstone
a_sumana_e3bc70d0_8129_4221_895@my-instance:~$ cd
a_sumana_e3bc70d0_8129_4221_895@my-instance:~$ cd shopforhome-wiprocapstone
a_sumana_e3bc70d0_8129_4221_895@my-instance:~/shopforhome-wiprocapstone$ ls
data.sql  discountapi  frontend  microservice  shopapi
a_sumana_e3bc70d0_8129_4221_895@my-instance:~/shopforhome-wiprocapstone$ cd frontend
a_sumana_e3bc70d0_8129_4221_895@my-instance:~/shopforhome-wiprocapstone/frontend$ ng serve
Your global Angular CLI version (14.1.3) 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".
** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **

Date: 2022-08-25T09:53:31.058Z
Hash: ba5def06a7016c61f7f
Time: 17154ms
chunk (main) main.js, main.js.map (main) 798 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) 032 kB [initial] [rendered]
chunk (vendor) vendor.js, vendor.js.map (vendor) 4.91 MB [initial] [rendered]
webpack: Compiled successfully.
```

```
VM instances - Compute Engine x Cloud Shell x +
shell.cloud.google.com/?hl=en_US&fromcloudshell=true&show=terminal
Gmail YouTube Maps wipro velocity upgr... GRE material - Goo... OneCognizant Mail - Sumana Sree... Dashboard Dropbox - The Data... The Data Science C...
Cloud Shell Editor
(greatlear-1661338985446) x +
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to greatlear-1661338985446.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~ (greatlear-1661338985446) $ cd
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~ (greatlear-1661338985446) $ gcloud config set project greatlear-1661338985446
Updated property [core/project].
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~ (greatlear-1661338985446) $ echo $GOOGLE_CLOUD_PROJECT
greatlear-1661338985446
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~ (greatlear-1661338985446) $ git clone https://github.com/Sumanasree/shopforhome-wiprocapstone.git
fatal: destination path 'shopforhome-wiprocapstone' already exists and is not an empty directory.
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~ (greatlear-1661338985446) $ ls
RENAME@cloudshell.txt  shopforhome-wiprocapstone
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~ (greatlear-1661338985446) $ cd
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~ (greatlear-1661338985446) $ cd shopforhome-wiprocapstone
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone (greatlear-1661338985446) $ ls
data.sql  discountapi  frontend  microservice  shopapi
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone (greatlear-1661338985446) $ cd frontend
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone/frontend (greatlear-1661338985446) $ node -v
v16.4.0
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone/frontend (greatlear-1661338985446) $ npm -v
-bash: npm-v: command not found
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone/frontend (greatlear-1661338985446) $ npm -v
8.18.0
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone/frontend (greatlear-1661338985446) $ npm install -g @angular/cli
```

```
VM instances - Compute Engine x Cloud Shell x +
shell.cloud.google.com/?hl=en_US&fromcloudshell=true&show=terminal
Gmail YouTube Maps wipro velocity upgr... GRE material - Goo... OneCognizant Mail - Sumana Sree... Dashboard Dropbox - The Data... The Data Science C...

Cloud Shell Editor
(greatlear-1661338985446) x + -

npm WARN EBADENGINE   npm: '^6.11.0 || ^7.5.6 || >=8.0.0',
npm WARN EBADENGINE   yarn: '>= 1.13.0'
npm WARN EBADENGINE },
npm WARN EBADENGINE   current: { node: 'v16.4.0', npm: '8.18.0' }
npm WARN EBADENGINE }
npm WARN EBADENGINE Unsupported engine {
npm WARN EBADENGINE   package: '@schematics/angular@14.1.3',
npm WARN EBADENGINE   required: {
npm WARN EBADENGINE     node: '^14.15.0 || >=16.10.0',
npm WARN EBADENGINE     npm: '^6.11.0 || ^7.5.6 || >=8.0.0',
npm WARN EBADENGINE     yarn: '>= 1.13.0'
npm WARN EBADENGINE   },
npm WARN EBADENGINE   current: { node: 'v16.4.0', npm: '8.18.0' }
npm WARN EBADENGINE }

changed 208 packages, and audited 209 packages in 12s

25 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone/frontend (greatlear-1661338985446) $ npm fund
shop@0.0.0

a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone/frontend (greatlear-1661338985446) $ npm install -g typescript

changed 1 package, and audited 2 packages in 2s

found 0 vulnerabilities
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone/frontend (greatlear-1661338985446) $ nvm 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)
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone/frontend (greatlear-1661338985446) $ npm install
( ) reify:-- audit bulk request (

89°F
Haze
```

```
VM instances - Compute Engine x Cloud Shell x 35.253.125.155 x +
shell.cloud.google.com/?hl=en_US&fromcloudshell=true&show=terminal
Gmail YouTube Maps wipro velocity upgr... GRE material - Goo... OneCognizant Mail - Sumana Sree... Dashboard Dropbox - The Data... The Data Science C...

Cloud Shell Editor
(greatlear-1661338993304) x + -

npm WARN EBADENGINE   required: {
npm WARN EBADENGINE     node: '^14.15.0 || >=16.10.0',
npm WARN EBADENGINE     npm: '^6.11.0 || ^7.5.6 || >=8.0.0',
npm WARN EBADENGINE     yarn: '>= 1.13.0'
npm WARN EBADENGINE   },
npm WARN EBADENGINE   current: { node: 'v16.4.0', npm: '8.18.0' }
npm WARN EBADENGINE }

added 209 packages, and audited 210 packages in 13s

25 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone/frontend (greatlear-1661338993304) $ npm fund
shop@0.0.0
├─┬ https://www.patreon.com/kzrfaisal
├─┬ angular-file-uploader@7.1.1
├─┬ https://opencollective.com/browserslist
├─┬ browserslist@4.21.2, update-browserslist-db@1.0.30001367
├─┬ https://github.com/sponsors/isaacs
├─┬ glob@7.2.3
├─┬ https://github.com/sponsors/feross
└─┬ safe-buffer@5.2.1

a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone/frontend (greatlear-1661338993304) $ npm install -g typescript

added 1 package, and audited 2 packages in 2s

found 0 vulnerabilities
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone/frontend (greatlear-1661338993304) $ nvm 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)
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone/frontend (greatlear-1661338993304) $

80°F
Mostly cloudy
```

```
VM instances - Compute Engine x Cloud Shell x 35.235.125.155 x + x - x  
shell.cloud.google.com/?hl=en_US&fromcloudshell=true&show-terminal Incognito  
Gmail YouTube Maps wipro velocity upgr... GRE material - Goo... OneCognizant Mail - Sumana Sree... Dashboard Dropbox - The Data... The Data Science C...  
Cloud Shell Editor  
(greatlear-1661338993304) x + x  
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone/frontend [greatlear-1661338993304]$ npm install --g typescript  
added 1 package, and audited 2 packages in 2s  
  
found 0 vulnerabilities  
  
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone/frontend [greatlear-1661338993304]$ 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...  
##### 100.0%  
Computing checksum with sha256sum  
Checksums matched!  
Now using node v16.10.0 (npm v7.24.0)  
  
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone/frontend [greatlear-1661338993304]$ npm install  
t reify:node-sass: timing reifyNode:node_modules/node-gyp: Completed in 1658ms  
t reify:node-sass: timing reifyNode:node_modules/node-gyp: Completed in 1658ms  
t reify:node-sass: timing reifyNode:node_modules/node-gyp: Completed in 1658ms  
t reify:node-sass: timing reifyNode:node_modules/node-gyp: Completed in 1658ms  
t reify:node-sass: timing reifyNode:node_modules/node-gyp: Completed in 1658ms  
[!]+ Stopped npm install  
a_sumana_e3bc70d0_8129_4221_895@cloudshell:~/shopforhome-wiprocapstone/frontend [greatlear-1661338993304]$ ng serve  
Your global Angular CLI version (14.2.0) 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:1681) [DEP0111] 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/ **  
  
Date: 2022-08-26T04:38:56.157Z  
Hash: ba5defd86a7016c61f7f  
Time: 26140ms  
chunk (main) main.js, main.js.map (main) 790 kB [initial] [rendered]  
chunk (polyfills) polyfills.js, polyfills.js.map (polyfills) 223 kB [initial] [rendered]  
chunk (runtime) runtime.js, runtime.js.map (runtime) 6.00 kB [entry] [rendered]  
chunk (scripts) scripts.js, scripts.js.map (scripts) 133 kB [rendered]  
chunk (styles) styles.js, styles.js.map (styles) 832 kB [initial] [rendered]  
chunk (vendor) vendor.js, vendor.js.map (vendor) 4.91 MB [initial] [rendered]  
+ [web]: Compiled successfully.
```

