SELL YOUR FURNITURE APPLICATION

A PROJECT REPORT

SUBMITTED BY

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IN PARTIAL FULFILLMENT FOR THE AWARD OF THE DEGREE OF

CGC-COE COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING.

MAY-2020

ACKNOWLEDGEMENT

The internship opportunity I had with MINDTREE LTD. was a great chance for learning and professional growth. Therefore, I consider myself as a very fortuitous individual to be a part of such reputed organization. I am also grateful for having a chance to meet so many wonderful people and professionals who led me though this internship period.

I am also thankful to all the staff members of our department, who helped us directly or indirectly in our endeavour and shown keen interest in our project by providing their encouragement.

I would like to thank Mr. Amarendra Gopalakrishna , Mr. Deepak Nagaraj and the management of Mindtree ltd for their opportunity and enlightening us with other aspects of project.

I perceive this opportunity as a big milestone in my career development. I will strive to use gained skills and knowledge in the best possible way, and I will continue to work on their improvement, in order to attain desired career objectives.

I want to give my thanks to my **COMPUTER SCIENCE DEPARTMENT** of CGC College of engineering for always supporting me. The knowledge which they have imparted in me allowed me to perform the actions in a smooth and efficient manner. Along with that their contribution towards self-development skills helped me a lot.

CERTIFICATE

This is to certify that the declaration statement made by the student is correct to the best of my knowledge and belief. He has completed his internship under my guidance and supervision. The present work is the result of his original investigation, effort and study. No part of the work has ever been submitted for any other degree at any University. The internship is fit for the submission and partial fulfilment of the conditions for the award of B.Tech degree in Computer Science and Engineering from CGC College Of Engineering, Punjab.

PREFACE

A student gets theoretical knowledge from classroom and gets practical knowledge from industrial training. When these two aspects of theoretical knowledge and practical experience are together then a student is fully equipped to secure his best.

In conducting the project study in an industry, students get exposed and have knowledge of real situation in the work field and gains experience from them. The objective of the Industrial Training is to provide an opportunity to experience the practical aspect of the technology in an organization. It provides a chance to get the feel of the organization and its function.

CONTENTS

I. INTRODUCTION

I.1. Mindtree Private Limited:

Mindtree is a global technology services company with a mission to engineer meaningful technology solutions to help businesses and societies flourish. Our culture is about collaboration, education and opportunity, and we are proud to be recognized as a great place to work. Mindtree is acquired on the 7th position in the list of top IT companies in India.

Mindtree
Welcome to possible

Mindtree deals in e-commerce, mobile applications, cloud computing, digital transformation, data analytics, enterprise application integration and enterprise resource planning, with more than 339 active clients and 43 offices in over 18 countries.
The works in Application Development and Maintenance, Data Analytics, Digital Services, Enterprise Application Integration and Business Process Management, Engineering R&D, Enterprise Application Services, Testing, and Infrastructure Management Services.

We Deliver Value to our Clients in Many Ways:

• Our experienced consultants understand current business challenges and how they manifest in a rapidly changing environment

• We put our clients' interests first and do not hesitate to offer candid opinions about solution designs or implementations

• Our proprietary process accelerators are born out of our diverse experience in implementing and integrating enterprise systems; these tools help compress the time required for our clients to realize tangible benefits

• We serve our smaller clients with the same dedication as our multi-billion dollar clients

• We are flexible about how we engage- we do not lock our clients into expensive, multi-year contracts

How We Are Different (and our clients agree!):

- Certainty of Outcome
- Better Anticipation, Better Implementation
- Trusted Advisors
- Cost-Effectiveness & Flexibility
- Knowledge Assets

Website:	https://www.mindtree.com
Industries:	Information Technology and Services
Company size:	20000-25000 employees
Headquarters:	Bengaluru, India
Type:	Privately Held
Founded:	1999
Revenue:	US$980 million

II. PROJECT

Project named as SELL YOUR FURNITURE is a web based project. Through this website user can sell or buy furniture. For the server side coding I have used spring boot and for the client side I have used angular 8.For storing the data in the database I have used MySQL.

In this application user can post the furniture details which the want to sell and the buyer can buy that furniture by choosing payment through two modes. These two modes are payment through card and payment on delivery. In this application we have authenticate users because I have enable login and signup through Facebook and Google. It will help the buyer who are looking for varieties by sitting at home and will also help the seller to sell the furniture without any hesitation.

Spring Boot- Spring Boot is an open source Java-based framework used to create a micro Service. It is developed by Pivotal Team and is used to build stand-alone and production ready spring applications.

Angular 8- It is used to create a single page application .In this I have also used the HTML, CSS and bootstrap. It works on Typescript language.

Bootstrap-I have used it to make by application attractive.

MySQL- I have used it as a local database for storing the data in the local database.

III. ***TECHNOLOGY***

III.1. OVERVIEW

With the help of Spring Boot framework of java I have completed the backend (server side) of my project and created some API"s which has to hit by the user Interface.

With the help of angular 8 using html,css,typescript and bootstrap I have completed the frontend(client side) part of my project and have made it responsive using some media query. To make my website attractive I have also used some courosels and the sliders using bootstrap. To store the data in the local database I have used MySQL.

It is website named as SELL YOUR FURNITURE through which its user can sell or buy any kind of furniture. For selling or buying furniture user should signup first in our website. User can also signup through Facebook or Google

Here I have used the social login user for login through Facebook and google. Reactive forms from **reactiveformsmodule** is also used for the validations of the various fields.

III.2 SNAPSHOTS AND CODE

Some of the snapshot of the websites are as follows:

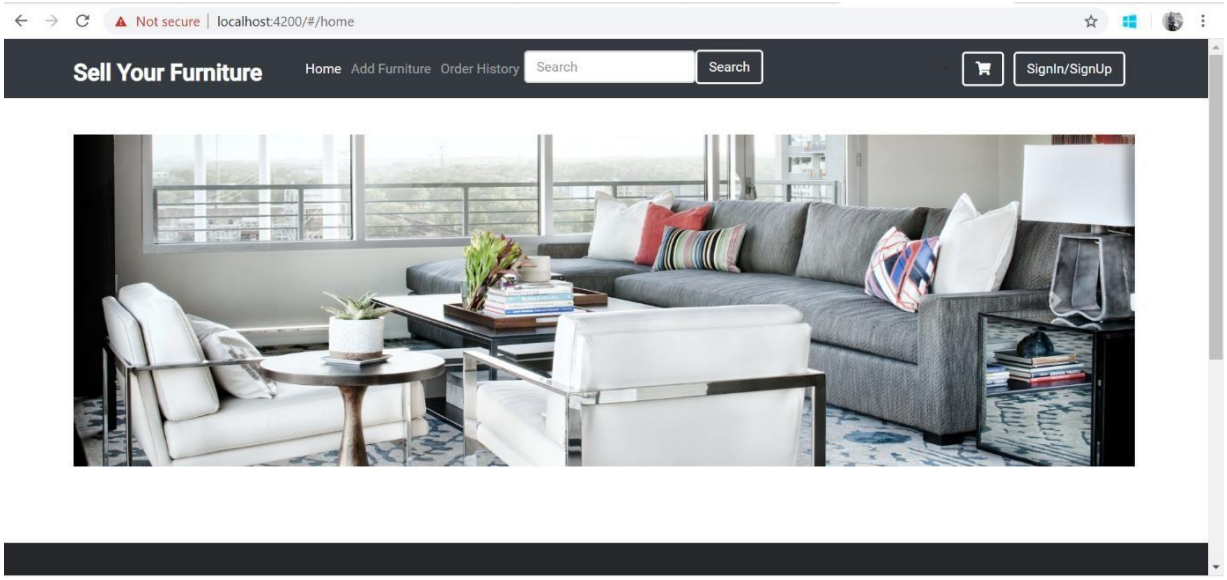


Fig:3.1

This is the home view of the application user should not be logined for accessing the home page of the application but for the further selection user should be logined.

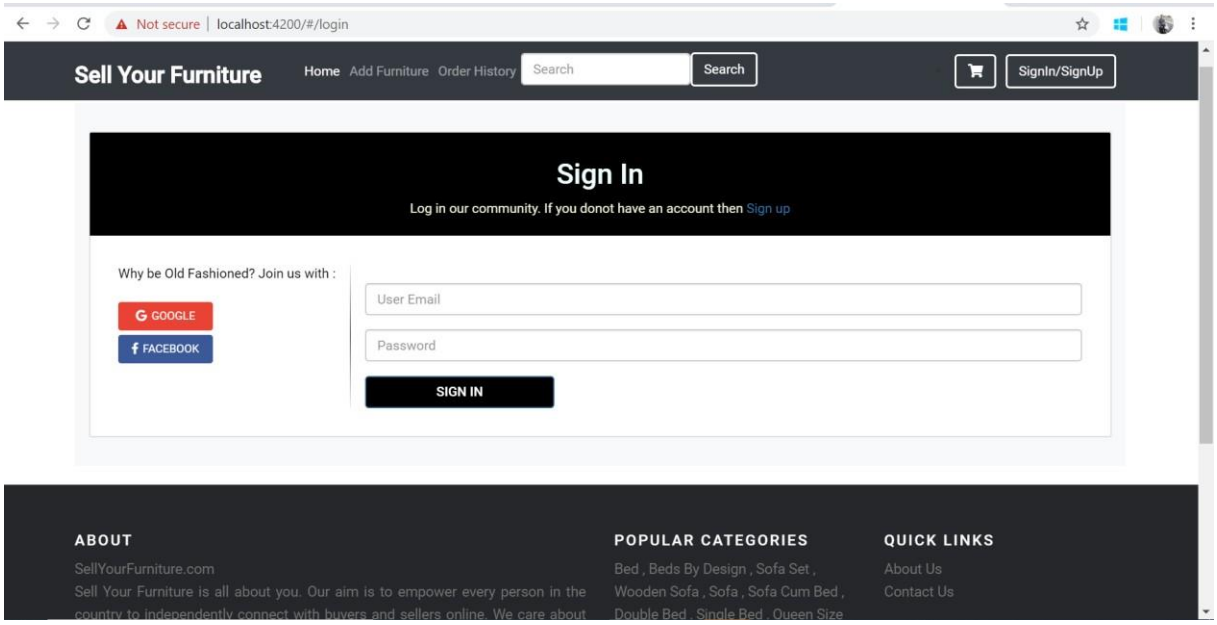


Fig: 3.2

This is the view of the login page where user should enter their credentials or can login through Facebook or Google.

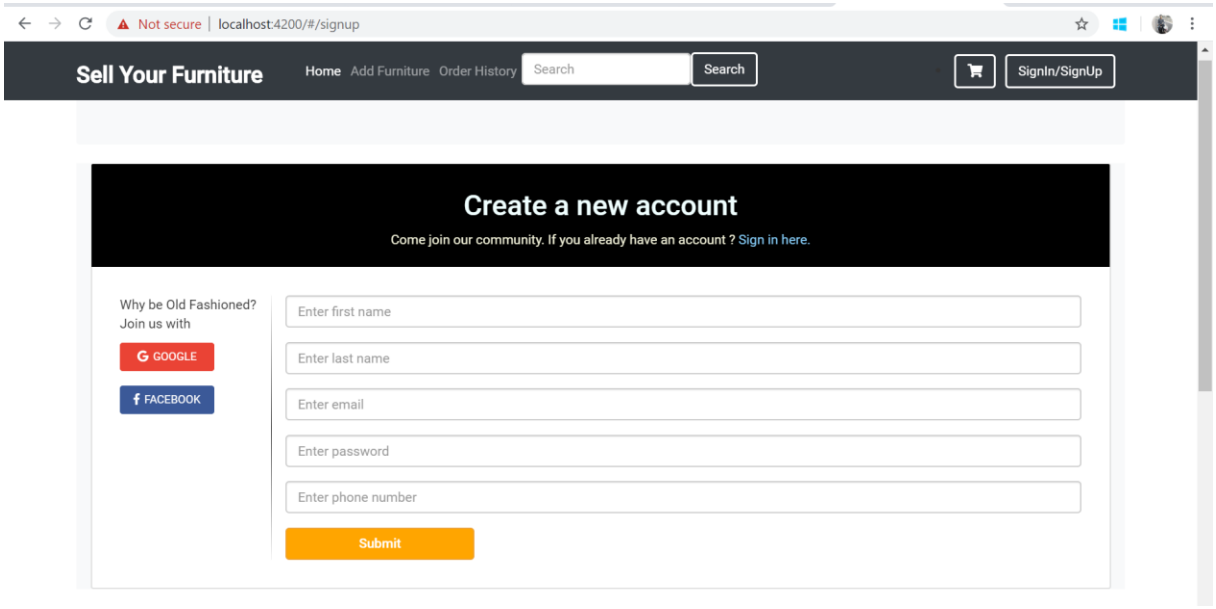


Fig: 3.3

This is the view of the signup page. If the user is not signed up before so he/she have to sign up before login. User can sign up through google or Facebook as well. Here every field is validated.

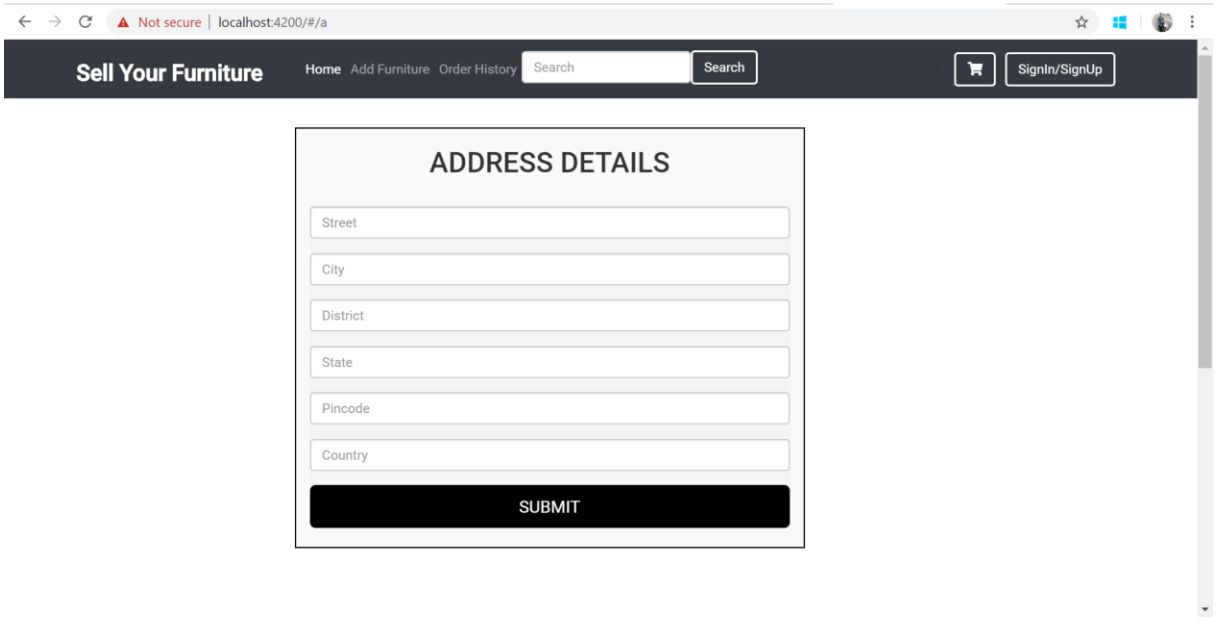


Fig: 3.4

This is address page where user should add the address for the delivery of the product.

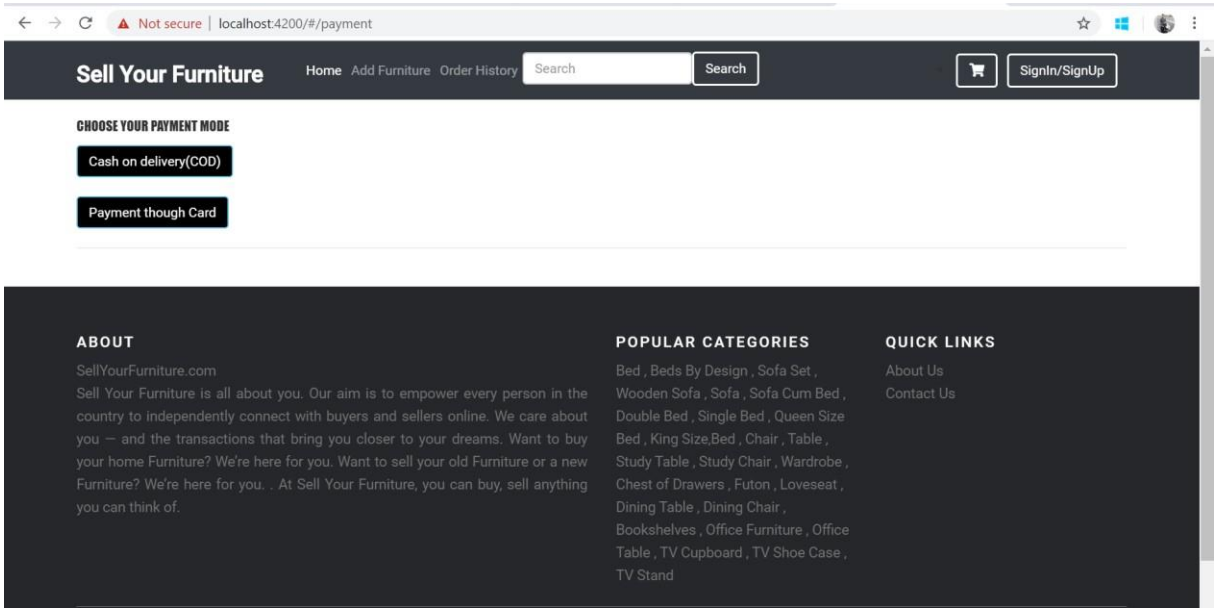


Fig: 3.5

This is the payment page where user can choose payment modes.

And some of the database images as are as follow:-

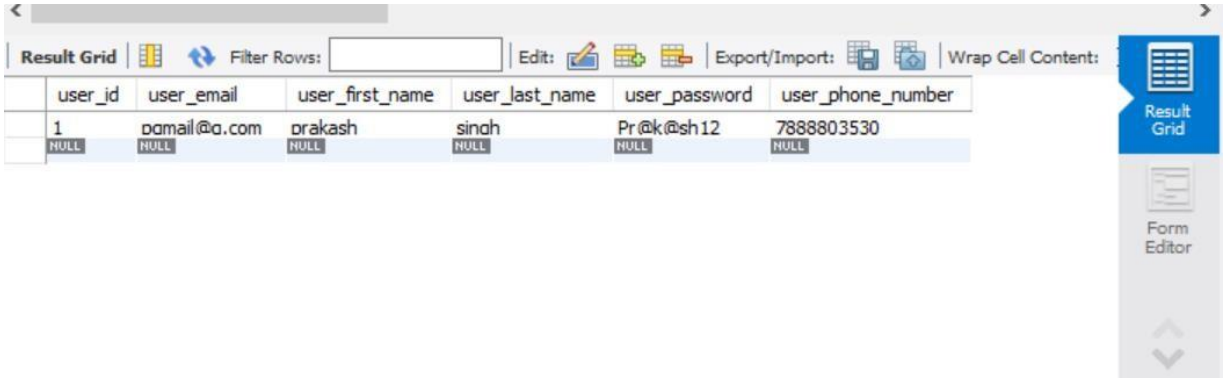


Fig: 3.6

This is the image of the user table which is present in the local database.

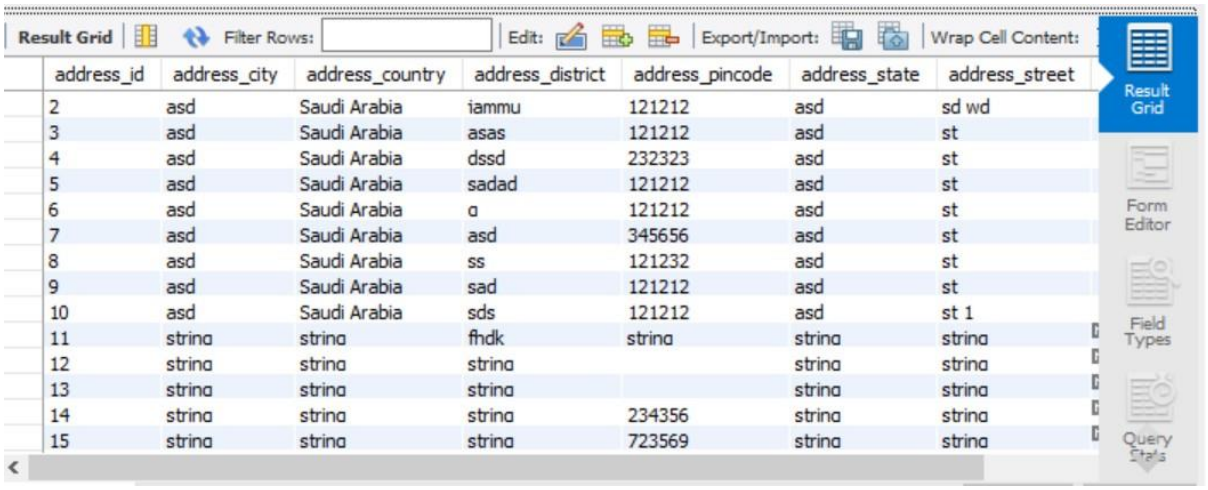


Fig: 3.7

This the address table where address of every user is stored.

Some snapshot of the spring boot packages:

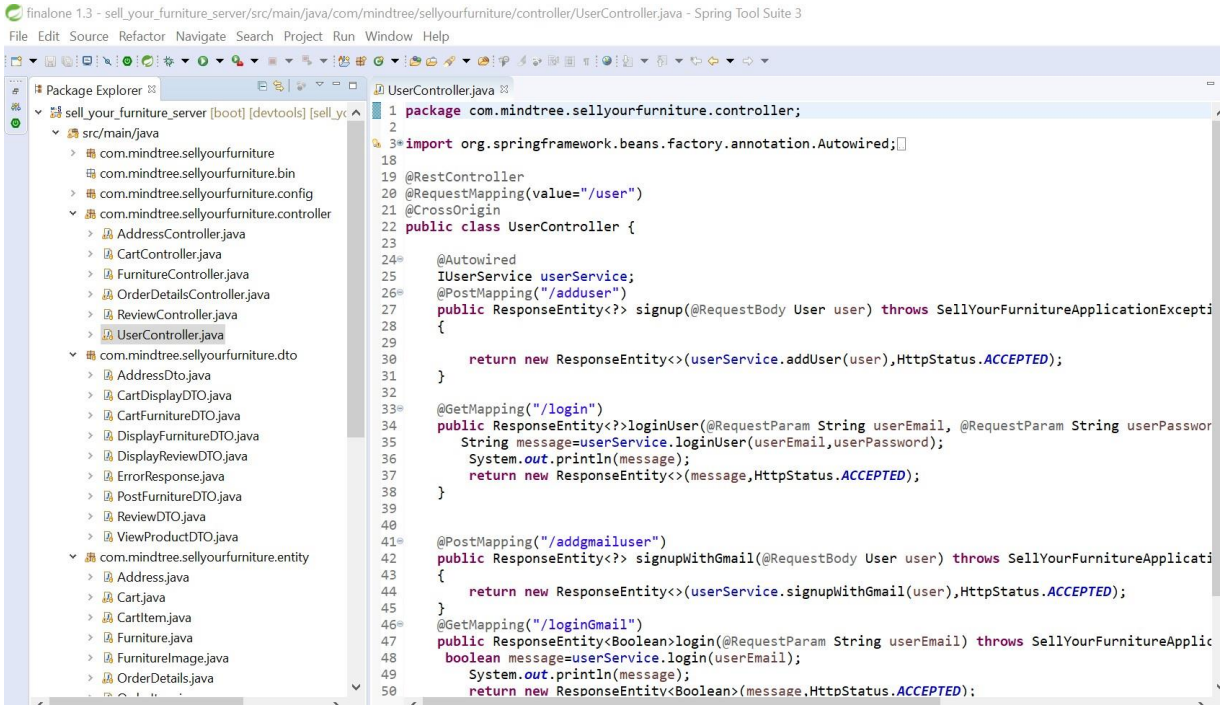


Fig: 3.8

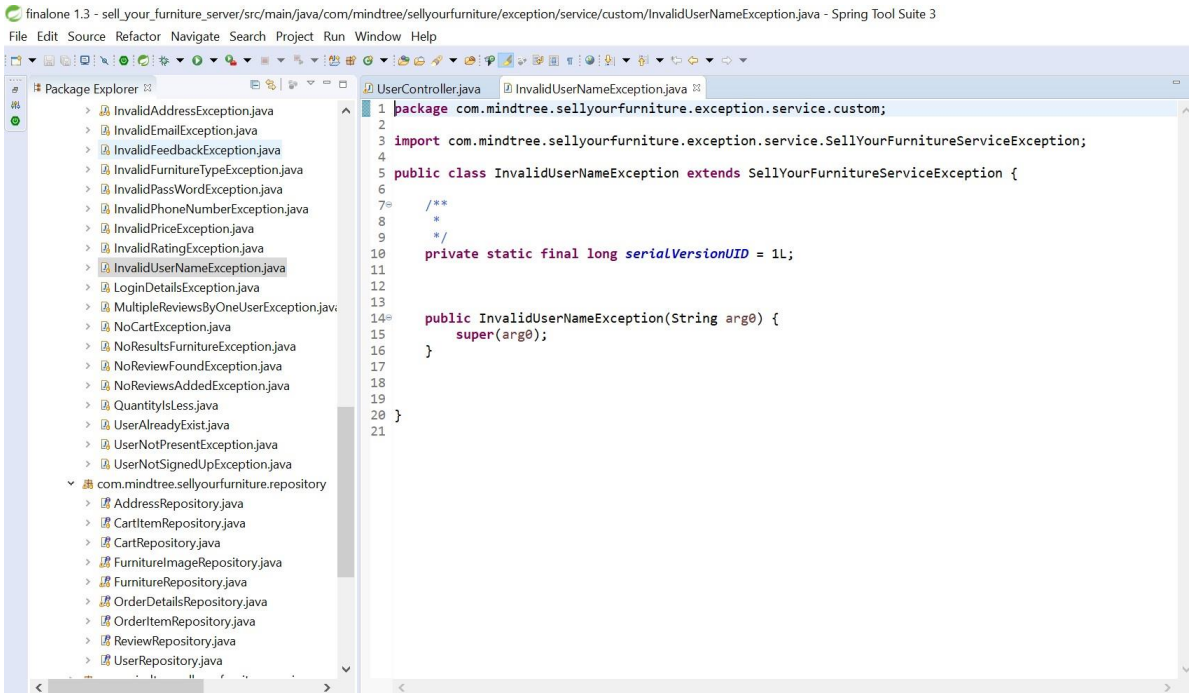


Fig: 3.9

Some snapshots of the angular component:

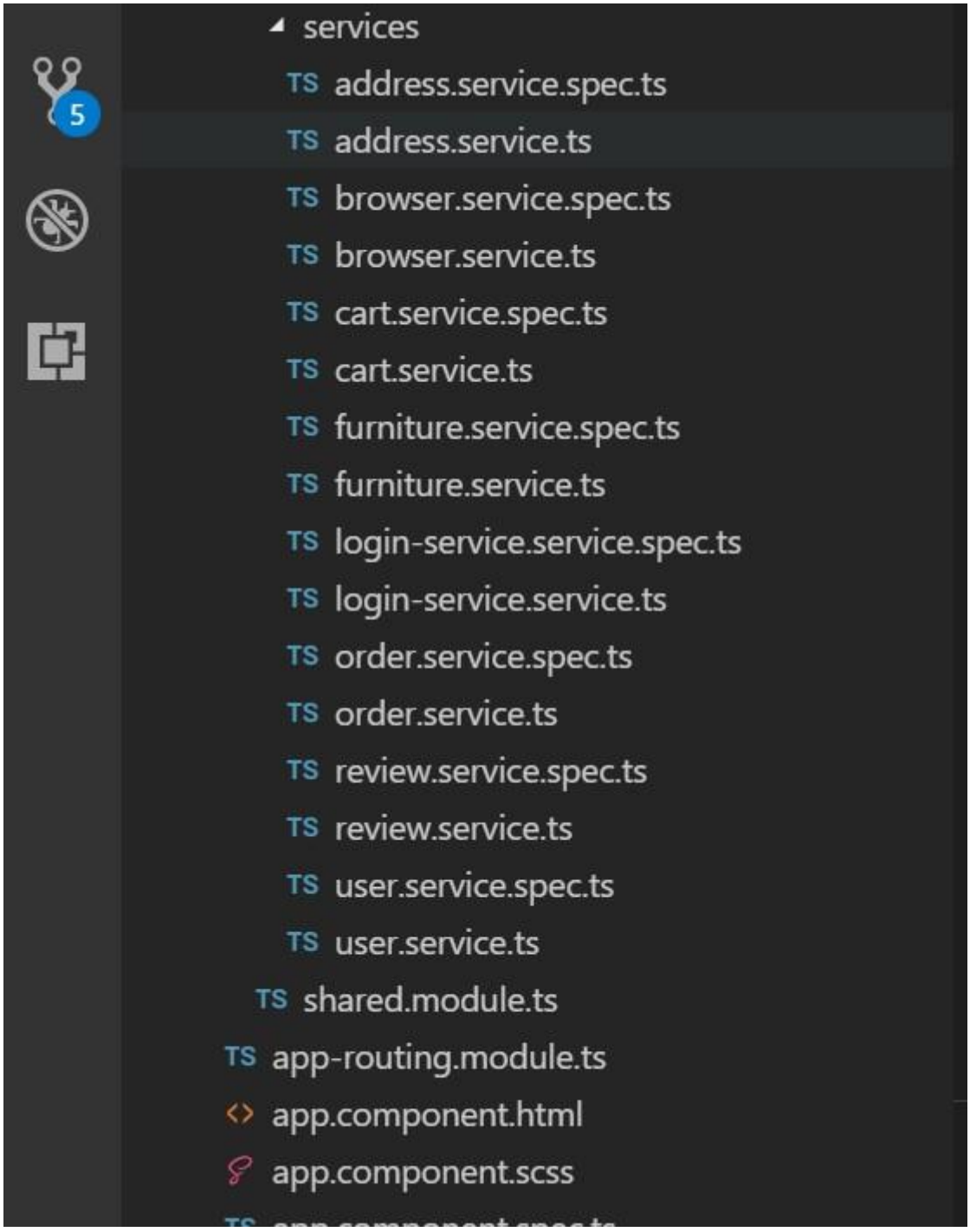
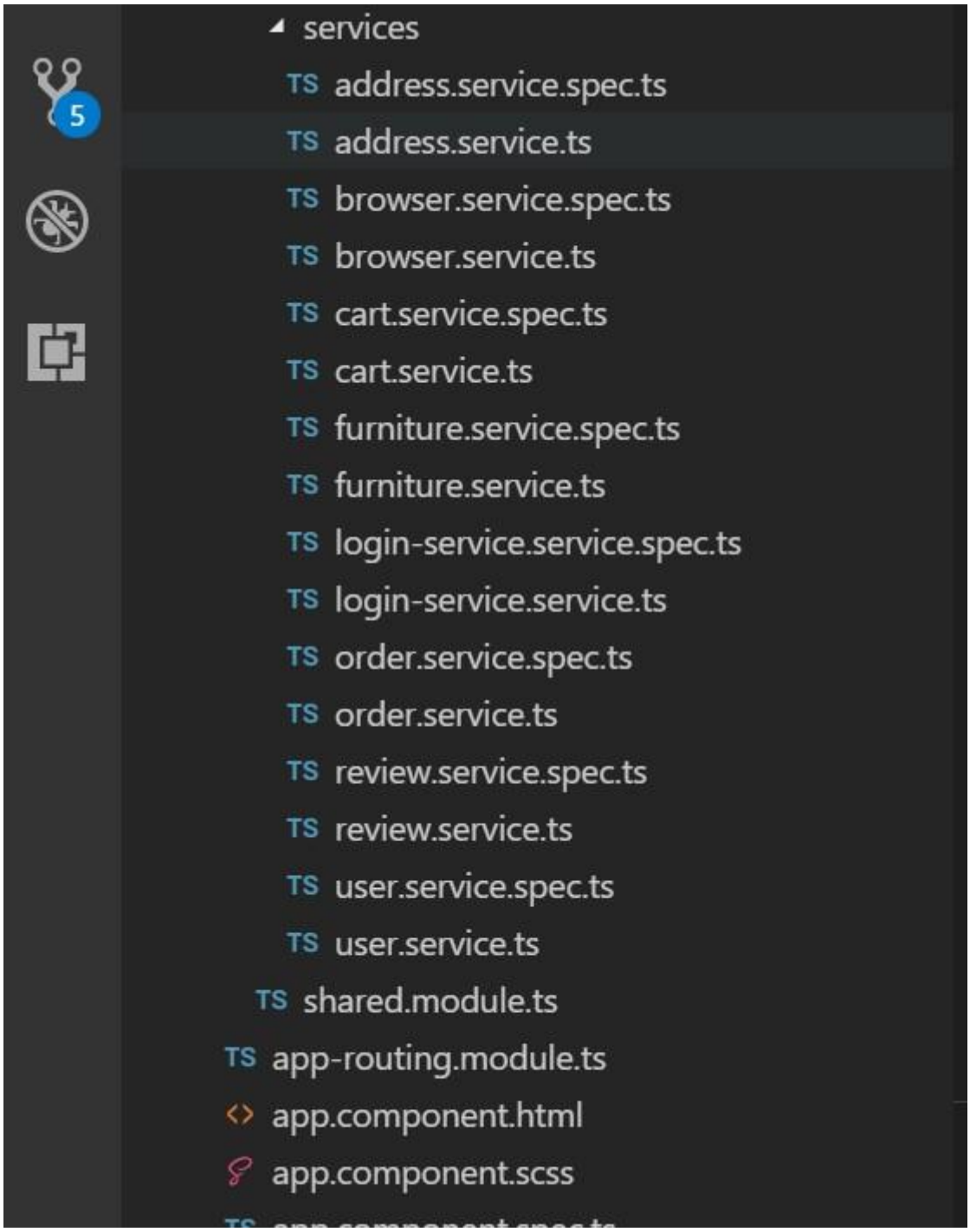


Fig 3.10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services
address.service.spec.ts
address.service.ts
browser.service.spec.ts
browser.service.ts
cart.service.spec.ts
cart.service.ts
furniture.service.spec.ts
furniture.service.ts
login-service.service.spec.ts
login-service.service.ts
order.service.spec.ts
order.service.ts
review.service.spec.ts
review.service.ts
user.service.spec.ts
user.service.ts
shared.module.ts
app-routing.module.ts
app.component.html
app.component.scss

Fig: 3.11

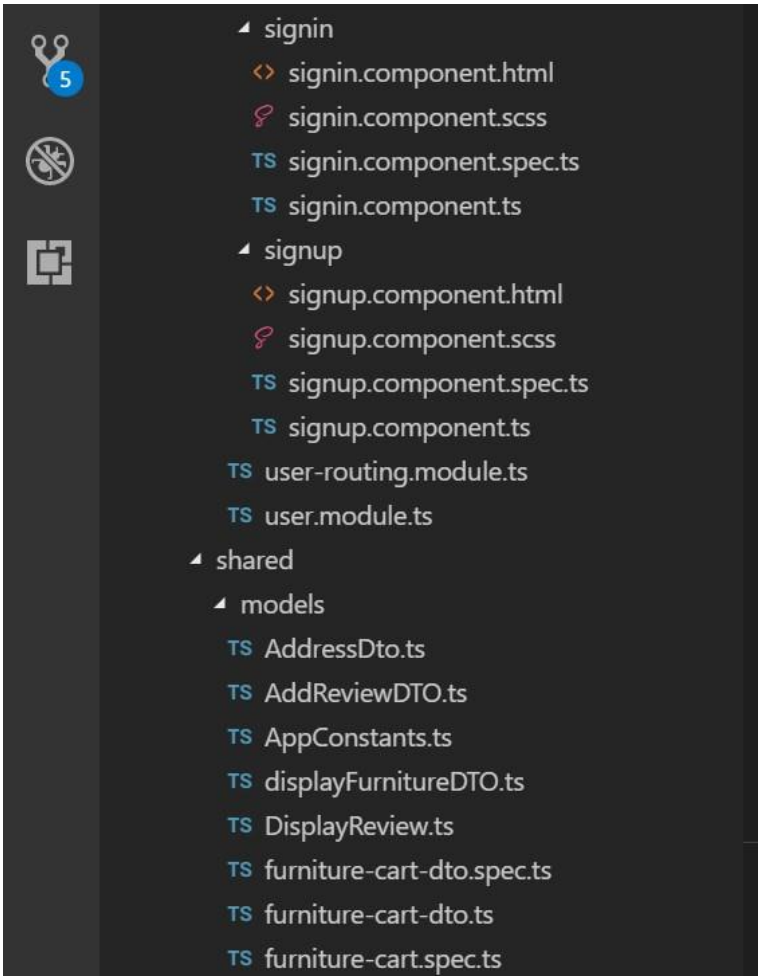

signin
signin.component.html
signin.component.scss
signin.component.spec.ts
signin.component.ts
signup
signup.component.html
signup.component.scss
signup.component.spec.ts
signup.component.ts
user-routing.module.ts
user.module.ts
shared
models
AddressDto.ts
AddReviewDTO.ts
AppConstants.ts
displayFurnitureDTO.ts
DisplayReview.ts
furniture-cart-dto.spec.ts
furniture-cart-dto.ts
furniture-cart.spec.ts

Fig: 3.12

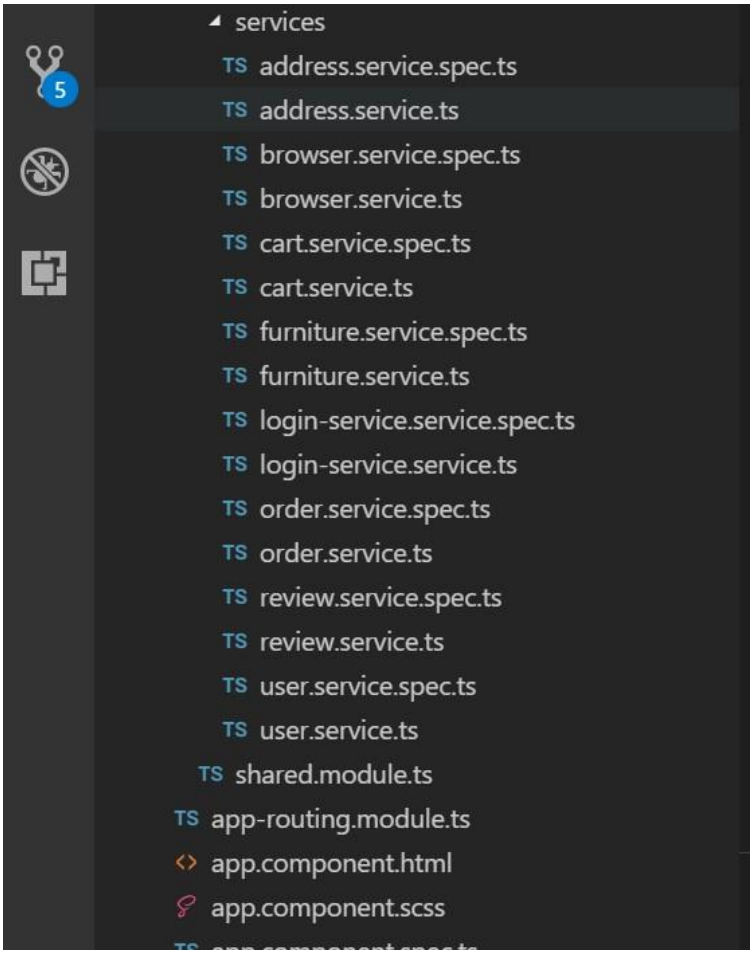

5
services
address.service.spec.ts
address.service.ts
browser.service.spec.ts
browser.service.ts
cart.service.spec.ts
cart.service.ts
furniture.service.spec.ts
furniture.service.ts
login-service.service.spec.ts
login-service.service.ts
order.service.spec.ts
order.service.ts
review.service.spec.ts
review.service.ts
user.service.spec.ts
user.service.ts
shared.module.ts
app-routing.module.ts
app.component.html
app.component.scss

Fig: 3.13

RESPONSE ENTITY:-

In this application I have also used the response entity for the desired output.

Some of the examples of the usages of response entity is as in following code:

```
package com.mindtree.sellyourfurniture.controller;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.http.HttpStatus;

import org.springframework.http.ResponseEntity;

import org.springframework.web.bind.annotation.CrossOrigin;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.ModelAttribute;

import org.springframework.web.bind.annotation.PostMapping;

import org.springframework.web.bind.annotation.RequestBody;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestParam;

import org.springframework.web.bind.annotation.RestController;


import com.mindtree.sellyourfurniture.entity.User;

import com.mindtree.sellyourfurniture.exception.SellYourFurnitureApplicationException;
```

```
import com.mindtree.sellyourfurniture.service.IUserService;


@RestController
@RequestMapping(value="/user")
@CrossOrigin
public class UserController {
	@Autowired
	IUserService userService;
	@PostMapping("/adduser")
	public ResponseEntity<?> signup(@RequestBody User user) throws SellYourFurnitureApplicationException
{
return new ResponseEntity<>(userService.addUser(user),HttpStatus.ACCEPTED);
	}


	@GetMapping("/login")
   public ResponseEntity<?>loginUser(@RequestParam String userEmail, @RequestParam String userPassword) throws SellYourFurnitureApplicationException {
      String message=userService.loginUser(userEmail,userPassword);
       System.out.println(message);
```

```
        return new ResponseEntity<>(message,HttpStatus.ACCEPTED);
    }



        @PostMapping("/addgmailuser")
        public ResponseEntity<?> signupWithGmail(@RequestBody User user) throws
SellYourFurnitureApplicationException
        {
Return new ResponseEntity<>(userService.signupWithGmail(user),HttpStatus.ACCEPTED);
        }
        @GetMapping("/loginGmail")
    public ResponseEntity<Boolean>login(@RequestParam String userEmail) throws
SellYourFurnitureApplicationException {
     Boolean message=userService.login(userEmail);
        System.out.println (message);
        return new ResponseEntity<Boolean>(message,HttpStatus.ACCEPTED);
    }
}
```

As the above code is of the controller package where I have used response entity. Like this only , I have use the response entity in every controller.

```
package com.mindtree.sellyourfurniture.controller;


import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.http.HttpStatus;

import org.springframework.http.ResponseEntity;

import org.springframework.web.bind.annotation.CrossOrigin;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.PostMapping;

import org.springframework.web.bind.annotation.RequestBody;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestParam;

import org.springframework.web.bind.annotation.RestController;


import com.mindtree.sellyourfurniture.dto.CartFurnitureDTO;

import com.mindtree.sellyourfurniture.service.ICartService;


@RestController

@RequestMapping("/cart")
```

```
@CrossOrigin(origins = "*")

public class CartController {



@Autowired

private ICartService cartService;



@PostMapping("/addfurniture")

public ResponseEntity<?> addFurnitureToCart(@RequestBody CartFurnitureDTO
cartFurniture){

return new ResponseEntity<>(cartService.addToCart(cartFurniture),HttpStatus.OK);

}

@PostMapping("/changequantity")

public ResponseEntity<?> changeQuantityOfCart(@RequestBody CartFurnitureDTO
cartFurniture){

return new ResponseEntity<>(cartService.addToCart(cartFurniture),HttpStatus.OK);

}

@GetMapping("/getfurniture")

public ResponseEntity<?> getFurnituresOfCart(@RequestParam("email") String
email){

return new ResponseEntity<>(cartService.getCartDetails(email),HttpStatus.OK);

}
```

```
@PostMapping("/removecart")

public ResponseEntity<?> deleteFurnitureOfCart(@RequestBody CartFurnitureDTO
cartFurniture){

return new
ResponseEntity<>(cartService.deleteFurnitureFromCart(cartFurniture),HttpStatus.OK
);

}

@GetMapping("/getfurnitureids")

public ResponseEntity<?> allFunitureIdOfCart(@RequestParam("email") String
email){

return new
ResponseEntity<>(cartService.getFurnitureIdsOfCart(email),HttpStatus.OK);

}



}
```

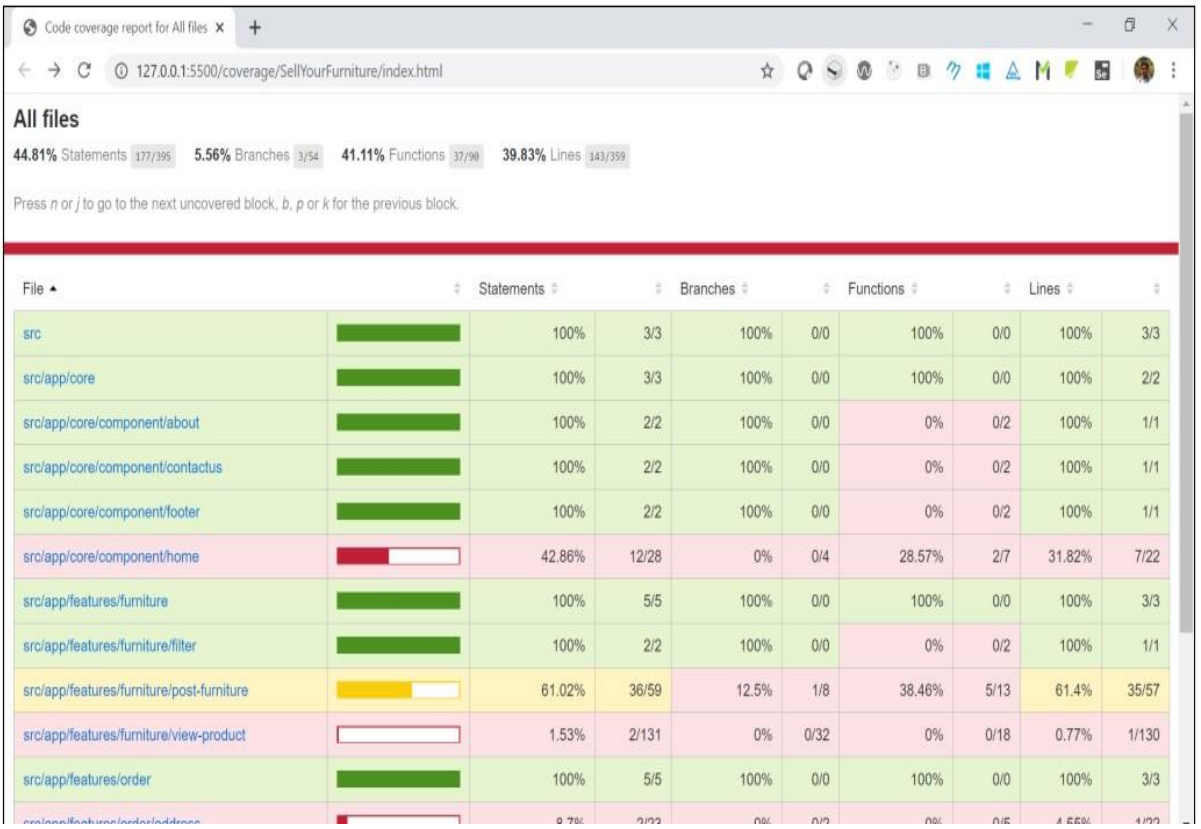
This is of the cart controller.

III.3 UNIT TESTING:

As I have also done the joint testing for the server side code and unit testing using jasmine and karma for the client side code.

From this testing I got the following output:

Frontend code coverage :



File	Statements		Branches		Functions		Lines	
src	100%	3/3	100%	0/0	100%	0/0	100%	3/3
src/app/core	100%	3/3	100%	0/0	100%	0/0	100%	2/2
src/app/core/component/about	100%	2/2	100%	0/0	0%	0/2	100%	1/1
src/app/core/component/contactus	100%	2/2	100%	0/0	0%	0/2	100%	1/1
src/app/core/component/footer	100%	2/2	100%	0/0	0%	0/2	100%	1/1
src/app/core/component/home	42.86%	12/28	0%	0/4	28.57%	2/7	31.82%	7/22
src/app/features/furniture	100%	5/5	100%	0/0	100%	0/0	100%	3/3
src/app/features/furniture/filter	100%	2/2	100%	0/0	0%	0/2	100%	1/1
src/app/features/furniture/post-furniture	61.02%	36/59	12.5%	1/8	38.46%	5/13	61.4%	35/57
src/app/features/furniture/view-product	1.53%	2/131	0%	0/32	0%	0/18	0.77%	1/130
src/app/features/order	100%	5/5	100%	0/0	100%	0/0	100%	3/3

Fig: 3.14

As the required code coverage must be above 30%.so mine was 44.8%.

Backend Code Coverage:

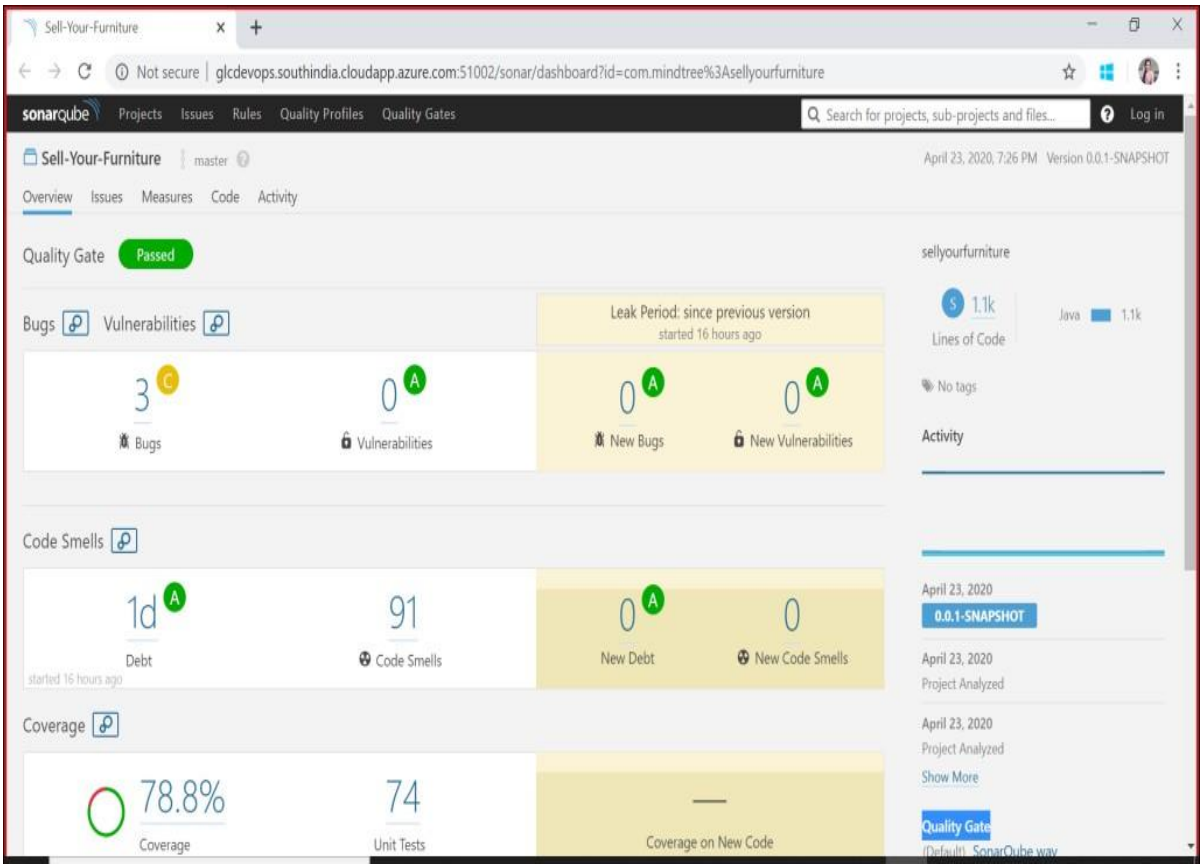


Fig: 3.15

As the backend code coverage must ne 70 %.Mine was 78.8%.

IV. CONCLUSION

- As a person who want to sell his/her furniture can sell in on this website without roaming and searching for the buyer.
- So it will save the time for both of the seller as well as for the buyer.
- Buyer can also give reviews.
- Authenticated users.
- Time Saving

V. BIBLOGRAPHY

1. https://angular.io/
2. https://www.tutorialspoint.com/spring_boot/spring_boot_introduction.htm
3. https://en.wikipedia.org/wiki/Mindtree