



greatlearning
Learning for Life

SHOP FOR HOME

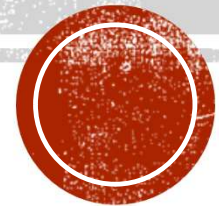
CAPSTONE PROJECT

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Batch no: G13-AWS SD APR CIII

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Objectives

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

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

Technologies required

We have developed this project using the below technology


- **HTML:** *Page layout has been designed in HTML*
- **CSS:** *CSS has been used for all the designing part*
- **JavaScript:** *All the validation task and animations has been developed by JavaScript*
- **Java Spring Boot:** *All the business and backend API logic has been implemented in Java Spring Boot*
- **MYSQL:** *.SQL files has been used as database for the project*
- **Angular:** *All the frontend logic has been implemented over the Angular and we used angular CLI for it & We have used this for calling all microservice API's*
- **Visual Studio Code-(VSS):** *For Angular IDE, we have used Visual Studio Code*

1. Cart option



Shop For Home

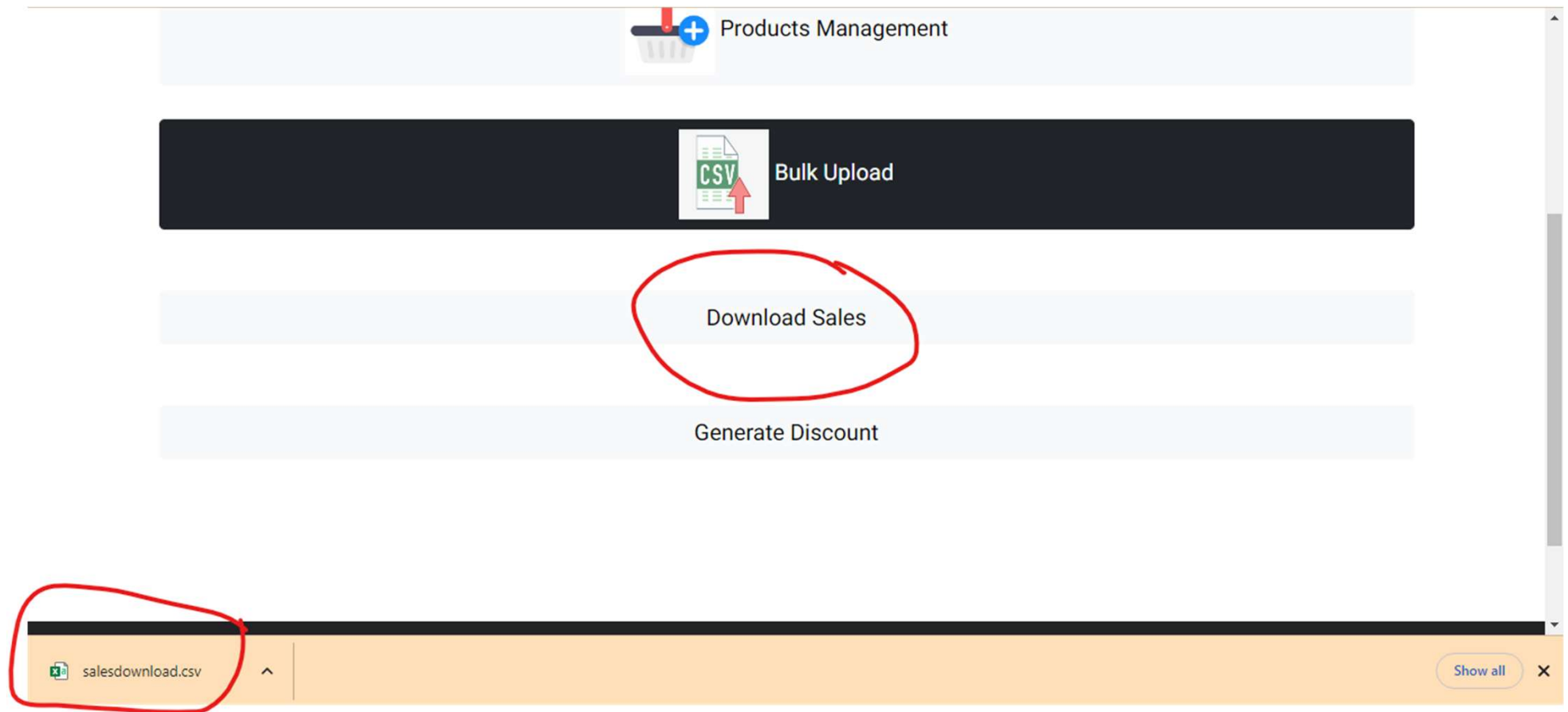
[Wishlist](#)



[logout](#)

[Shop More](#)**Grand Total : ₹111,998.00**[Proceed to Check Out](#)

2. Stock and Sales reports



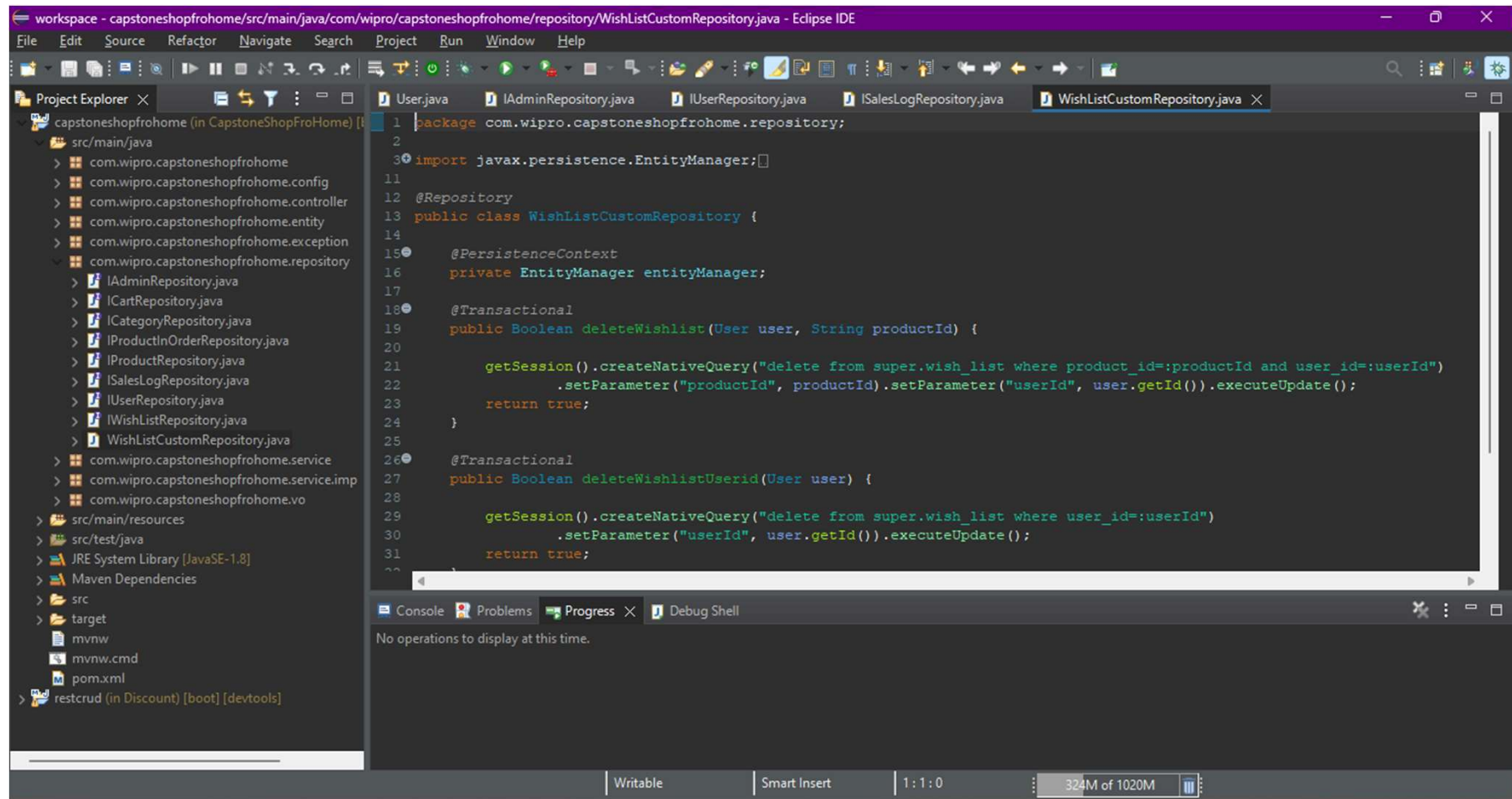
3. Create Data Transfer objects

The screenshot shows the Eclipse IDE interface. The Project Explorer on the left displays the project structure for 'capstoneshopfrohome'. The main editor window shows the 'User.java' file with the following code:

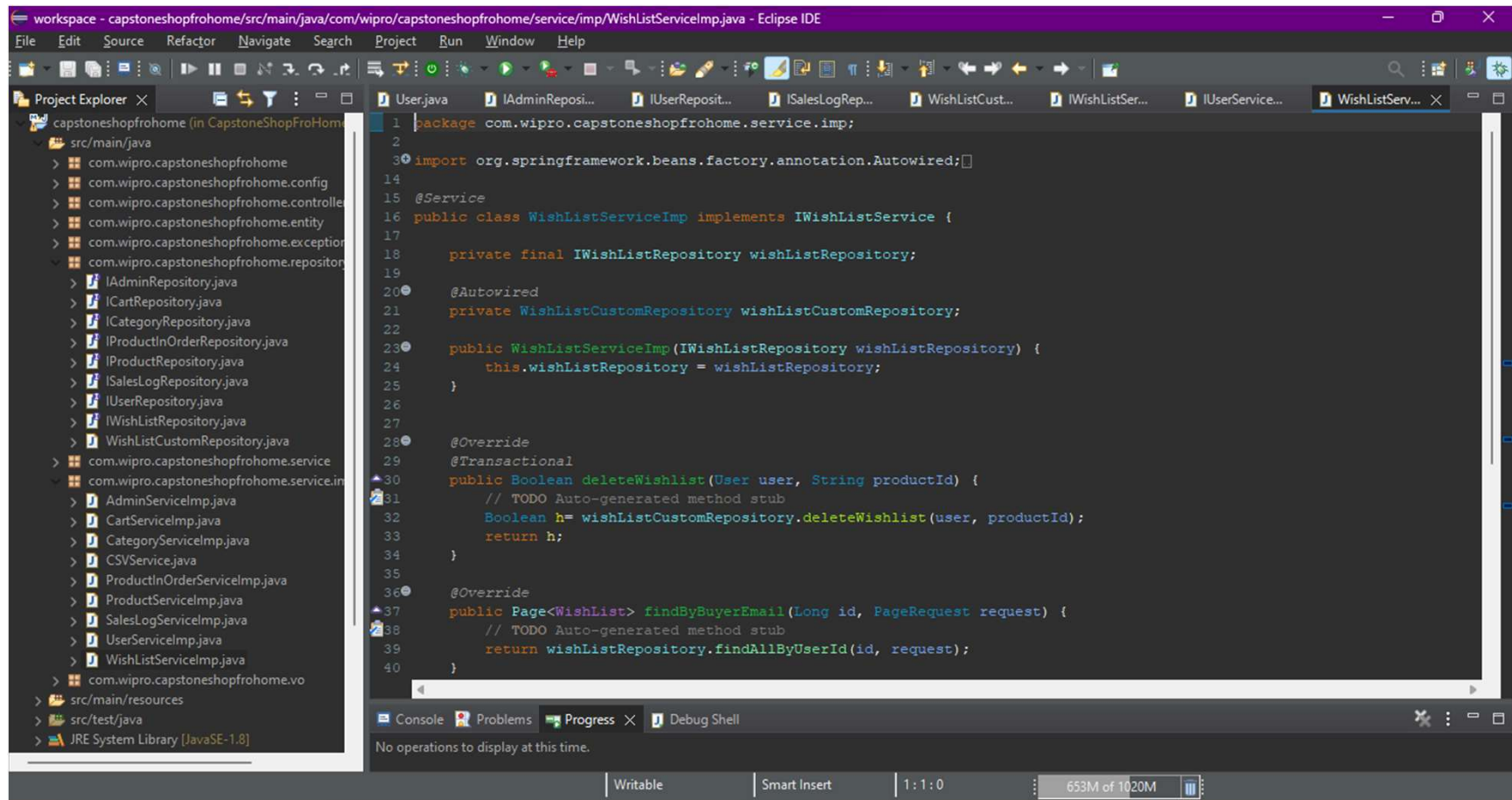
```
1 package com.wipro.capstoneshopfrohome.entity;
2
3 import javax.persistence.CascadeType;
4
5 @NoArgsConstructor
6 @AllArgsConstructor
7 @Data
8 @Entity
9 public class User {
10
11     @Id
12     @GeneratedValue(strategy = GenerationType.AUTO)
13     private Long id;
14     private String name;
15     @Email
16     private String email;
17     @NotNull
18     @Size(min = 7, message = "Length must be more than 7")
19     private String password;
20
21     @OneToOne(mappedBy = "user", cascade = CascadeType.ALL)
22     @JsonIgnore
23     private Cart cart;
24 }
```

The bottom of the IDE shows the Console, Problems, Progress, and Debug Shell tabs. The Console tab is active and displays the message: "No operations to display at this time."

4. Create repository



5. Create Service layer logic

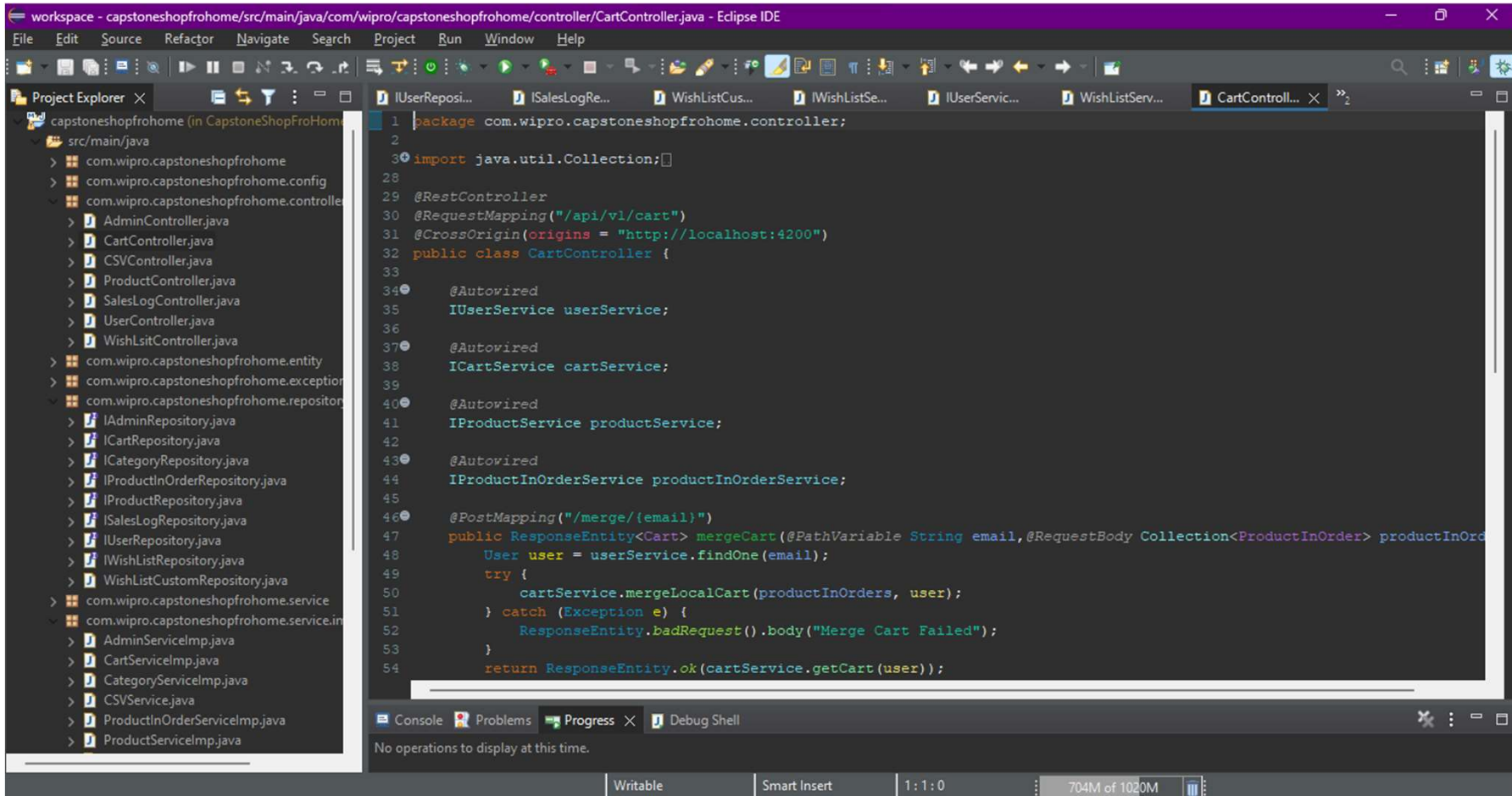


The screenshot shows the Eclipse IDE with the file `WishListServiceImp.java` open. The Project Explorer on the left shows the project structure, including the `com.wipro.capstoneshopfrohome.service` package. The main editor displays the following Java code:

```
1 package com.wipro.capstoneshopfrohome.service.imp;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4
5 @Service
6 public class WishListServiceImp implements IWishListService {
7
8     private final IWishListRepository wishListRepository;
9
10    @Autowired
11    private WishListCustomRepository wishListCustomRepository;
12
13    public WishListServiceImp(IWishListRepository wishListRepository) {
14        this.wishListRepository = wishListRepository;
15    }
16
17    @Override
18    @Transactional
19    public Boolean deleteWishlist(User user, String productId) {
20        // TODO Auto-generated method stub
21        Boolean h = wishListCustomRepository.deleteWishlist(user, productId);
22        return h;
23    }
24
25    @Override
26    public Page<WishList> findByBuyerEmail(Long id, PageRequest request) {
27        // TODO Auto-generated method stub
28        return wishListRepository.findAllByUserId(id, request);
29    }
30}
```

The bottom of the IDE shows the Console, Problems, Progress, and Debug Shell tabs. The status bar at the bottom indicates the file is writable, smart insert is enabled, and the cursor is at line 1, column 10. The memory usage is 653M of 1020M.

6. Create Controller to direct rest api

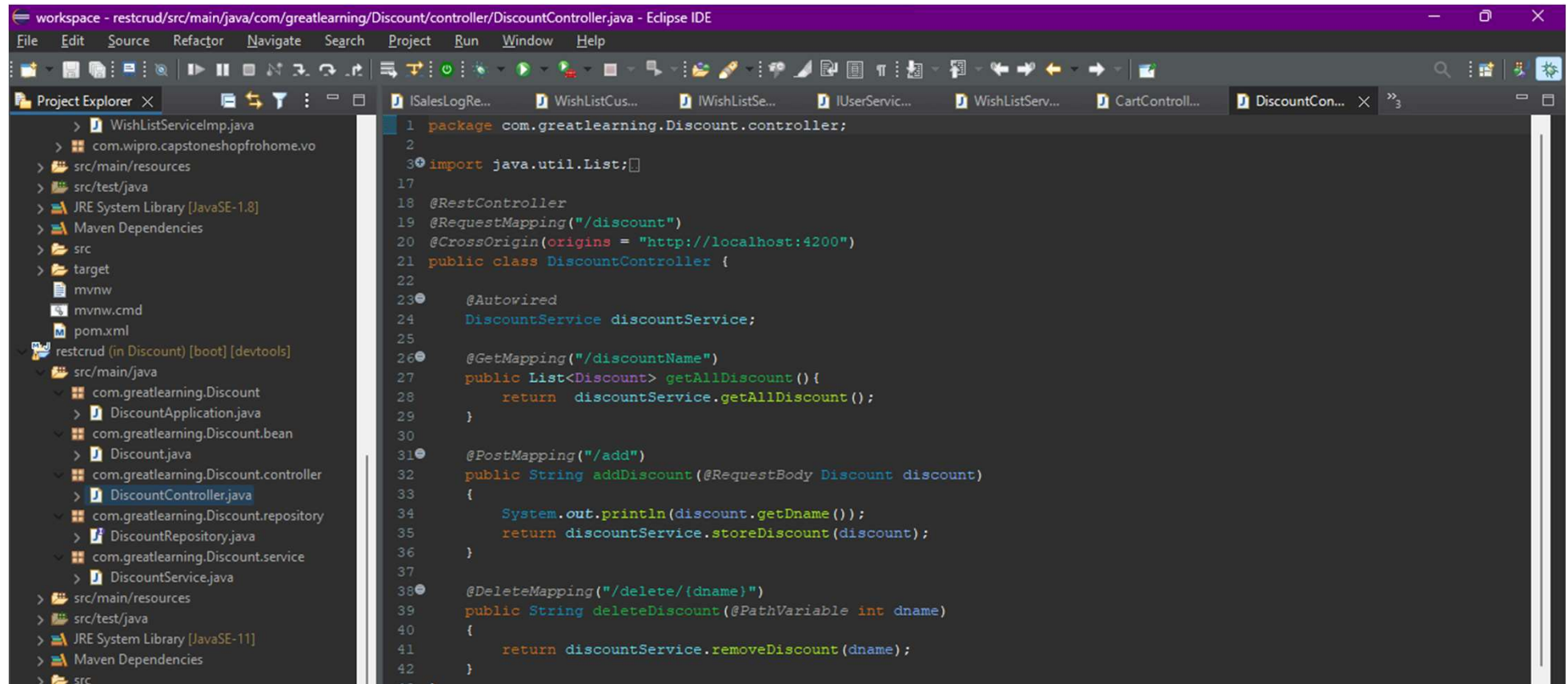


```
workspace - capstoneshopfrohome/src/main/java/com/wipro/capstoneshopfrohome/controller/CartController.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer
capstoneshopfrohome (in CapstoneShopFroHome)
src/main/java
com.wipro.capstoneshopfrohome
com.wipro.capstoneshopfrohome.config
com.wipro.capstoneshopfrohome.controller
AdminController.java
CartController.java
CSVController.java
ProductController.java
SalesLogController.java
UserController.java
WishListController.java
com.wipro.capstoneshopfrohome.entity
com.wipro.capstoneshopfrohome.exception
com.wipro.capstoneshopfrohome.repository
IAdminRepository.java
ICartRepository.java
ICategoryRepository.java
IProductInOrderRepository.java
IProductRepository.java
ISalesLogRepository.java
IUserRepository.java
IWishListRepository.java
WishListCustomRepository.java
com.wipro.capstoneshopfrohome.service
com.wipro.capstoneshopfrohome.service.impl
AdminServiceImpl.java
CartServiceImpl.java
CategoryServiceImpl.java
CSVService.java
ProductInOrderServiceImpl.java
ProductServiceImpl.java

1 package com.wipro.capstoneshopfrohome.controller;
2
3 import java.util.Collection;
4
5 @RestController
6 @RequestMapping("/api/v1/cart")
7 @CrossOrigin(origins = "http://localhost:4200")
8 public class CartController {
9
10     @Autowired
11     IUserService userService;
12
13     @Autowired
14     ICartService cartService;
15
16     @Autowired
17     IProductService productService;
18
19     @Autowired
20     IProductInOrderService productInOrderService;
21
22     @PostMapping("/merge/{email}")
23     public ResponseEntity<Cart> mergeCart(@PathVariable String email, @RequestBody Collection<ProductInOrder> productInOrders) {
24         User user = userService.findOne(email);
25         try {
26             cartService.mergeLocalCart(productInOrders, user);
27         } catch (Exception e) {
28             ResponseEntity.badRequest().body("Merge Cart Failed");
29         }
30         return ResponseEntity.ok(cartService.getCart(user));
31     }
32 }
```

7. Create Discount Microservice



```
workspace - restcrud/src/main/java/com/greatlearning/Discount/controller/DiscountController.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer
> WishlistServiceImpl.java
> com.wipro.capstoneshopfrohome.vo
> src/main/resources
> src/test/java
> JRE System Library [JavaSE-1.8]
> Maven Dependencies
> src
> target
> mvnw
> mvnw.cmd
> pom.xml
restcrud (in Discount) [boot] [devtools]
  > src/main/java
    > com.greatlearning.Discount
      > DiscountApplication.java
      > com.greatlearning.Discount.bean
        > Discount.java
      > com.greatlearning.Discount.controller
        > DiscountController.java
      > com.greatlearning.Discount.repository
        > DiscountRepository.java
      > com.greatlearning.Discount.service
        > DiscountService.java
    > src/main/resources
    > src/test/java
    > JRE System Library [JavaSE-11]
    > Maven Dependencies
    > src

1 package com.greatlearning.Discount.controller;
2
3 import java.util.List;
17
18 @RestController
19 @RequestMapping("/discount")
20 @CrossOrigin(origins = "http://localhost:4200")
21 public class DiscountController {
22
23     @Autowired
24     DiscountService discountService;
25
26     @GetMapping("/discountName")
27     public List<Discount> getAllDiscount() {
28         return discountService.getAllDiscount();
29     }
30
31     @PostMapping("/add")
32     public String addDiscount(@RequestBody Discount discount)
33     {
34         System.out.println(discount.getDname());
35         return discountService.storeDiscount(discount);
36     }
37
38     @DeleteMapping("/delete/{dname}")
39     public String deleteDiscount(@PathVariable int dname)
40     {
41         return discountService.removeDiscount(dname);
42     }
43 }
```

Fig- search funaction

THANK YOU