CASE STUDY DOCUMENTATION ON

Deals and Coupons Finder App

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Synopsis:

This Project allows you to receive some cash back points on all products from members and easily use those point like real money at any location. Whether it's last-minute Cleaners, beverage food, beauty, bakery, you just name it, and this project will grab the best deals for you.

Application Functions:

1.Register Admin details to the Database.

2.Authenticate Admin details in the Database.

3.Find the Token in Postman.

4.Get the Token from Postman and perform operation

5.Get the token from postman.

6.Authenticate the admin using token.

7. Perform the Admin operation

8. User directly perform get operation only no need authentication.

Software Requirement:

1. JDK11

2. MongoDB

3. Junit

4. Spring Tool Suite 4

5. Web Server

6. Postman

7.JaCoCo

8. Git

Hardware Requirement:

1. Processor: - 1.2Ghz and above

2. Hard Disk: - 10GB and more

3. RAM: - Minimum 1 GB

Requirement:

1. User can retrieve the Deals and Coupons.
2. User can find the deals in particular product.
3. User also find   deals and coupons by id.

Stories:

1. This Application will have 8 microservices:

    a. Eureka Service
    b. API Gateway
    c. Deals Service
    d. Product Service
    e. Coupons Service
    f. Deals User Service
    g. Coupon User Service
    h. Product User Service

2. The Working of Deals Service is storing all the information about customer. Like as Deal no, Name, Deal name, deal details all those details save in user data.

3. The product Service is storing all the information about product. Like product no, product Name, product details Websites Name all those details save in this service.

4. The Coupons Service is storing all the information about product. Like Coupon no, Coupon Name, Coupon details Websites Name all those details save in this service.

Admin Service:

   1. Save Deals, Coupon, Product Data
   2. Fetch Deals, Coupon, Product Data

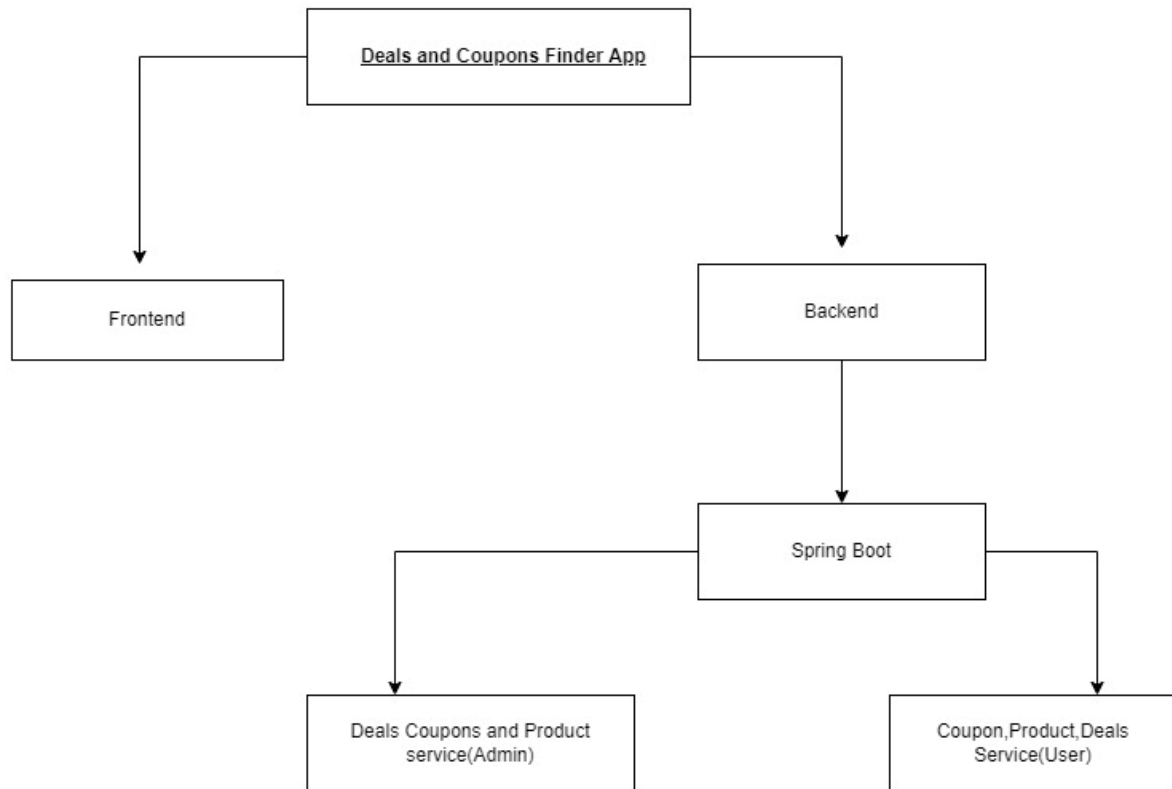Deals Service:

   1. Retrieve all details Deals Service

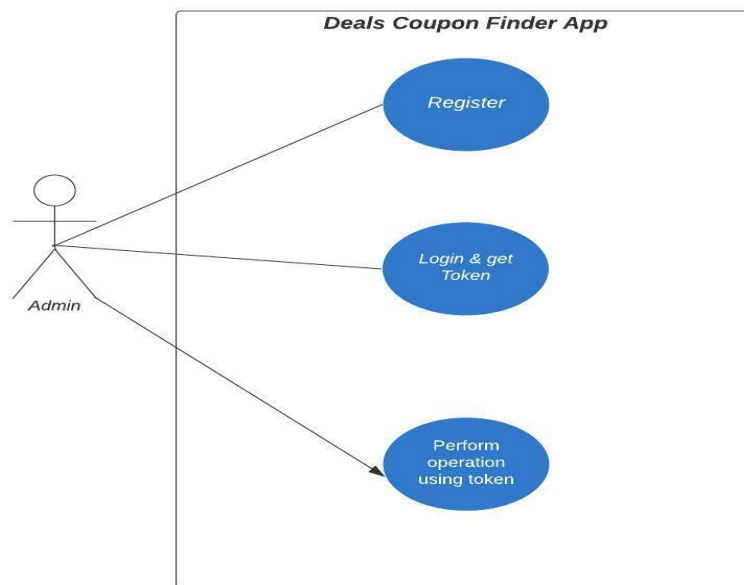 Product Service:

   1. Retrieve all details Product Service

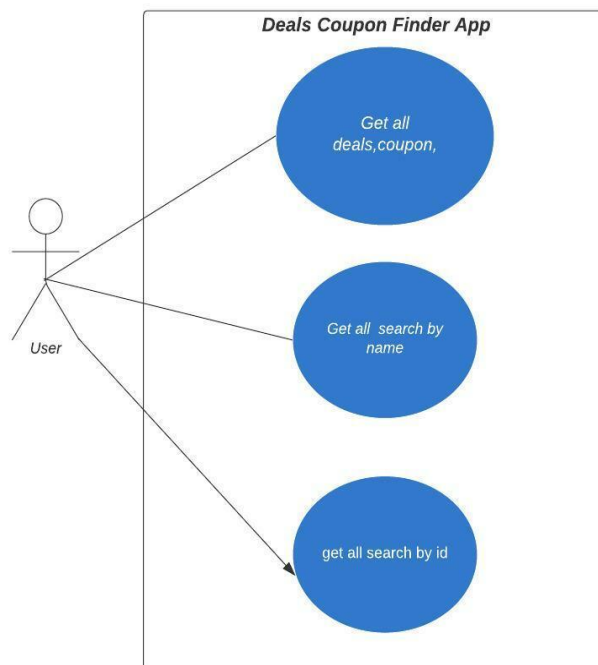 Coupon Service:

   1. Retrieve all details Coupon Service

Architecture for Deals and Coupons:
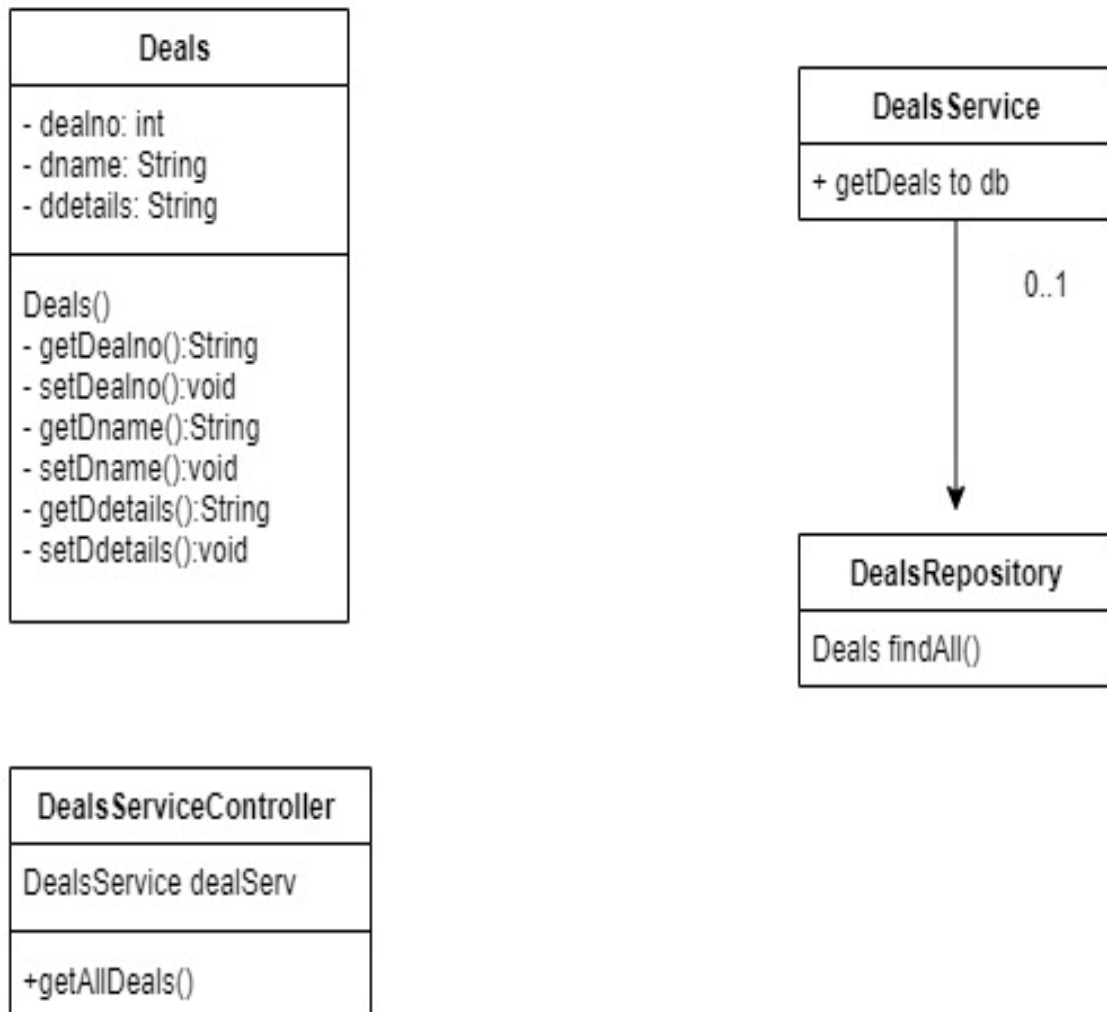
UseCase Diagram for Admin:

UseCase Diagram for User:

Class Diagrams:

Deals Service (User):

Deals

- dealno: int
- dname: String
- ddetails: String

Deals()
- getDealno():String
- setDealno():void
- getDname():String
- setDname():void
- getDdetails():String
- setDdetails():void

DealsService

+ getDeals to db

0..1

DealsRepository

Deals findAll()

DealsServiceController

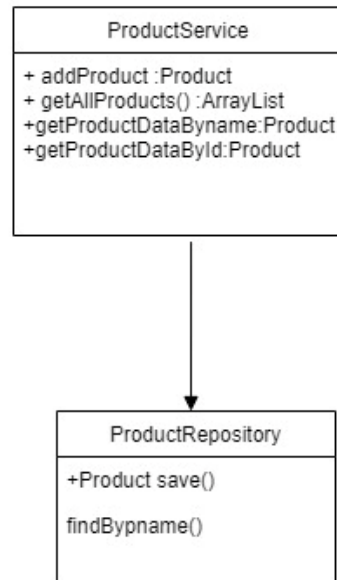DealsService dealServ
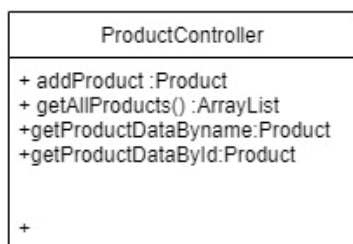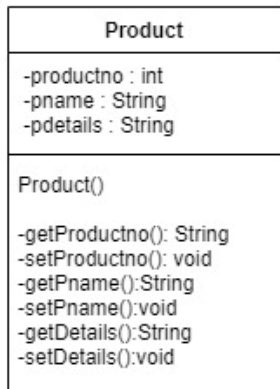
+getAllDeals()

Deal Service User & Admin-:

User-: User only access deal Search, deal search by id, deal search by name.

Admin: - Admin can access all CRUD operation also search operation too.
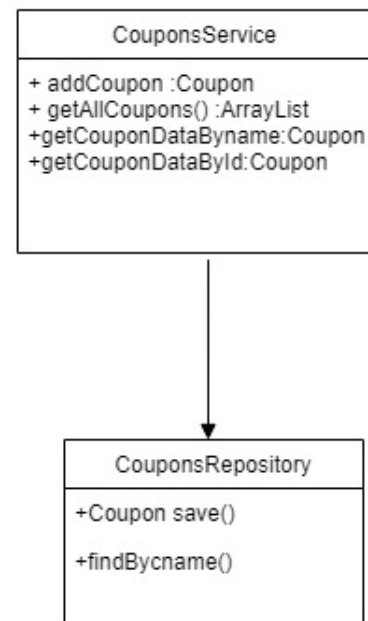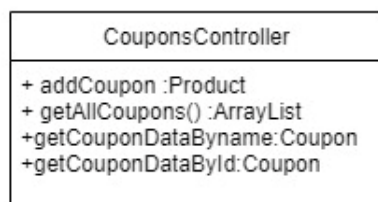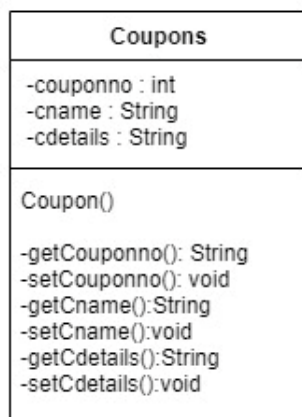
Product Service:

Product Service(Admin)

ProductService

+ addProduct :Product
+ getAllProducts() :ArrayList
+getProductDataByname:Product
+getProductDataById:Product

Product

-productno : int
-pname : String
-pdetails : String

Product()
-getProductno(): String
-setProductno(): void
-getPname():String
-setPname():void
-getDetails():String
-setDetails():void

ProductRepository

+Product save()
findBypname()

ProductController

+ addProduct :Product
+ getAllProducts() :ArrayList
+getProductDataByname:Product
+getProductDataById:Product
+

Product Service User & Admin-:

User-: User only access deal Search, deal search by id, deal search by name.

Admin: - Admin can access all CRUD operation also search operation too.

Coupon Service:

Coupon Service(Admin)

Coupons

-couponno : int
-cname : String
-cdetails : String

Coupon()

-getCouponno(): String
-setCouponno(): void
-getCname():String
-setCname():void
-getCdetails():String
-setCdetails():void

CouponsService

+ addCoupon :Coupon
+ getAllCoupons() :ArrayList
+getCouponDataByname:Coupon
+getCouponDataById:Coupon

CouponsRepository

+Coupon save()

+findBycname()

CouponsController

+ addCoupon :Product
+ getAllCoupons() :ArrayList
+getCouponDataByname:Coupon
+getCouponDataById:Coupon

Product Service User & Admin-:

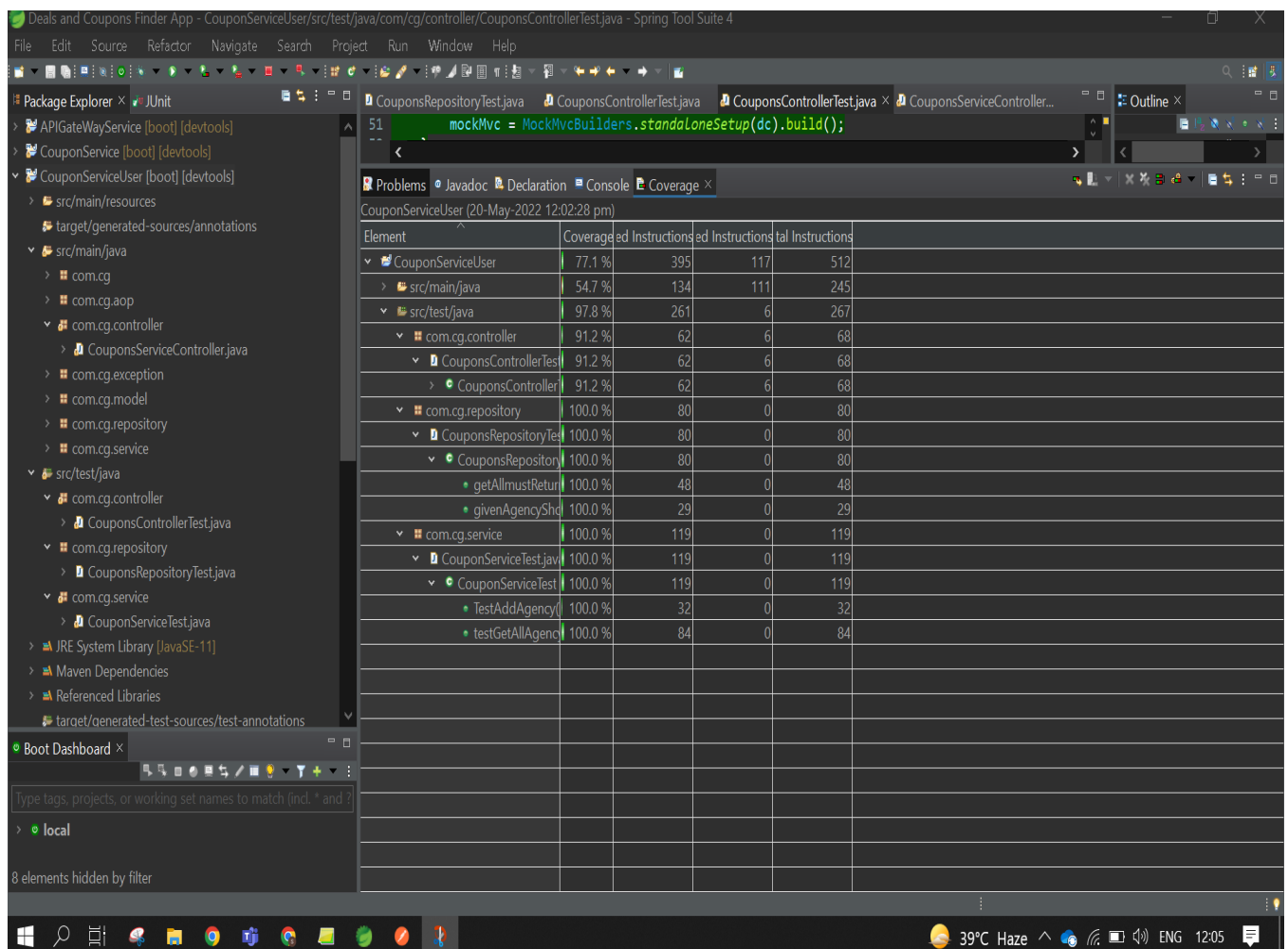**User-:**user only access deal Search, deal search by id, deal search by name.

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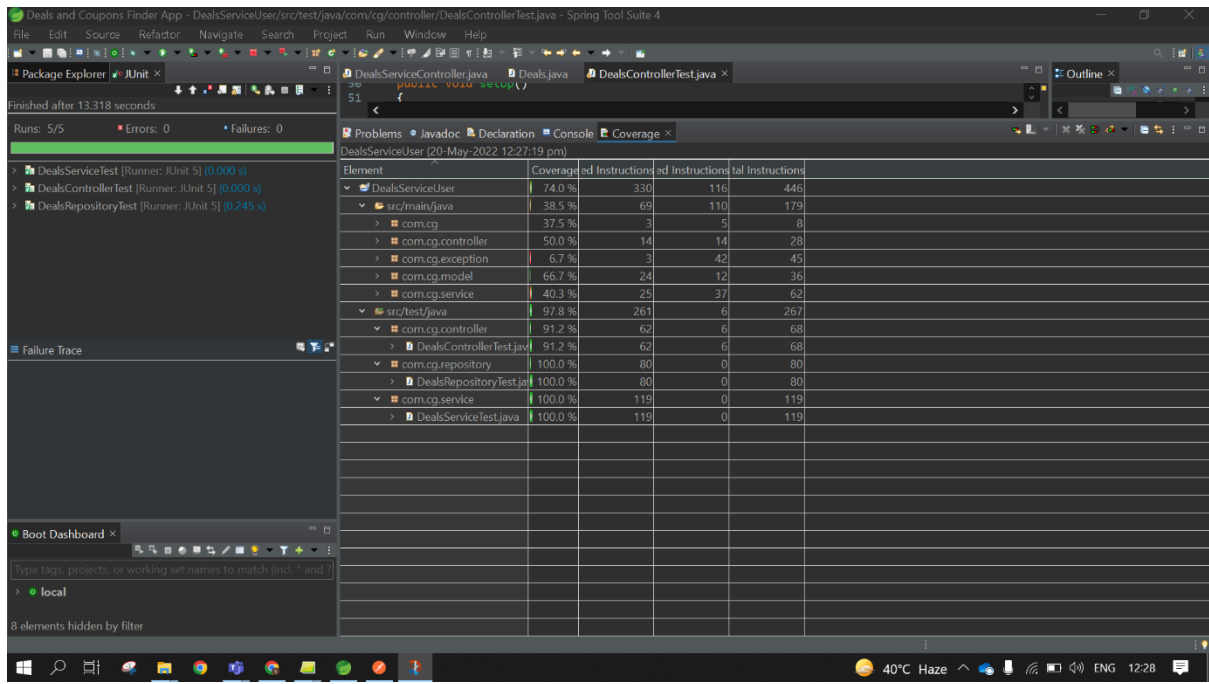
Features:

1. Drive more traffic to your store and increase sales.

2. Attract new customers by letting users share coupons with friends.

3. Offer exclusive app-based discounts to encourage customers and prospective customers to download my app.
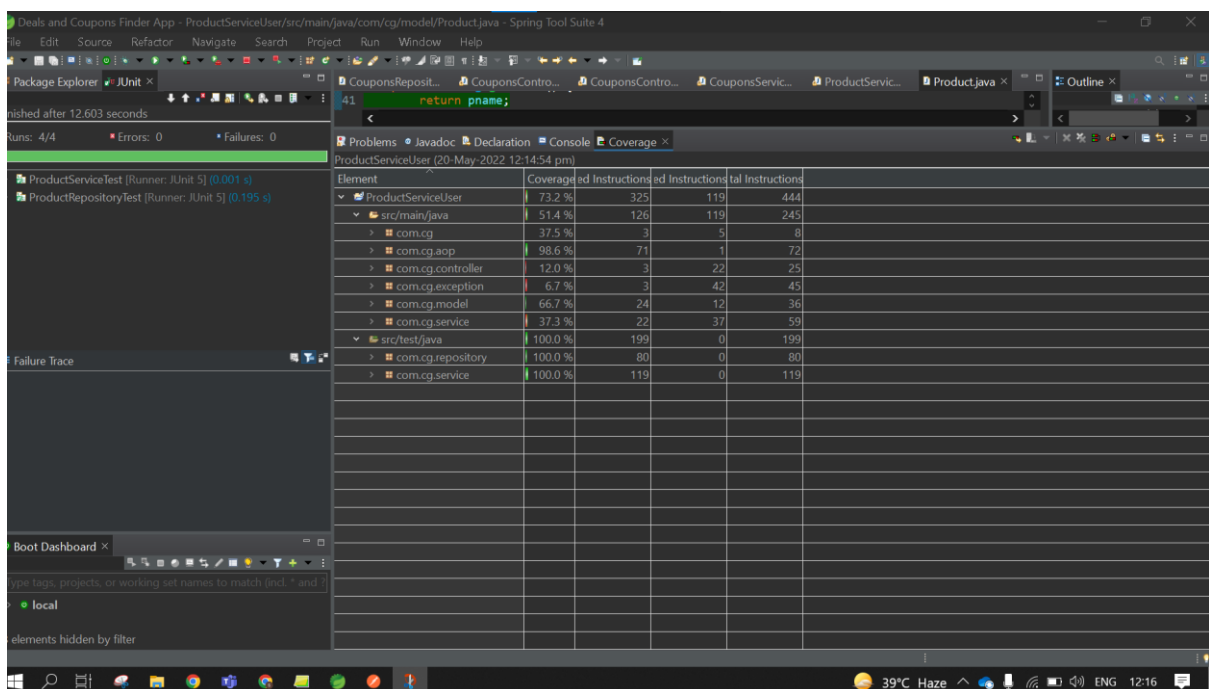
Jacoco Code Courage: (Coupon Service)

jacoco code courage is 77.1%

Jacoco Code Courage: (Deal Service)

jacoco code courage is 74.0%

Jacoco Code Courage: (Product Service)

jacoco code courage is 73.2%

Conclusion:

We have divided the project into many milestones having various stories in it. By doing this, we can calculate the average time taken and testing can be done easily.