E-commerce Website for Sporty Shoes

(Source Code)

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1. GitHub Link.

https://github.com/Sai153793/sportyshoeproject.git

2. Folder Structure:

Folder Structure

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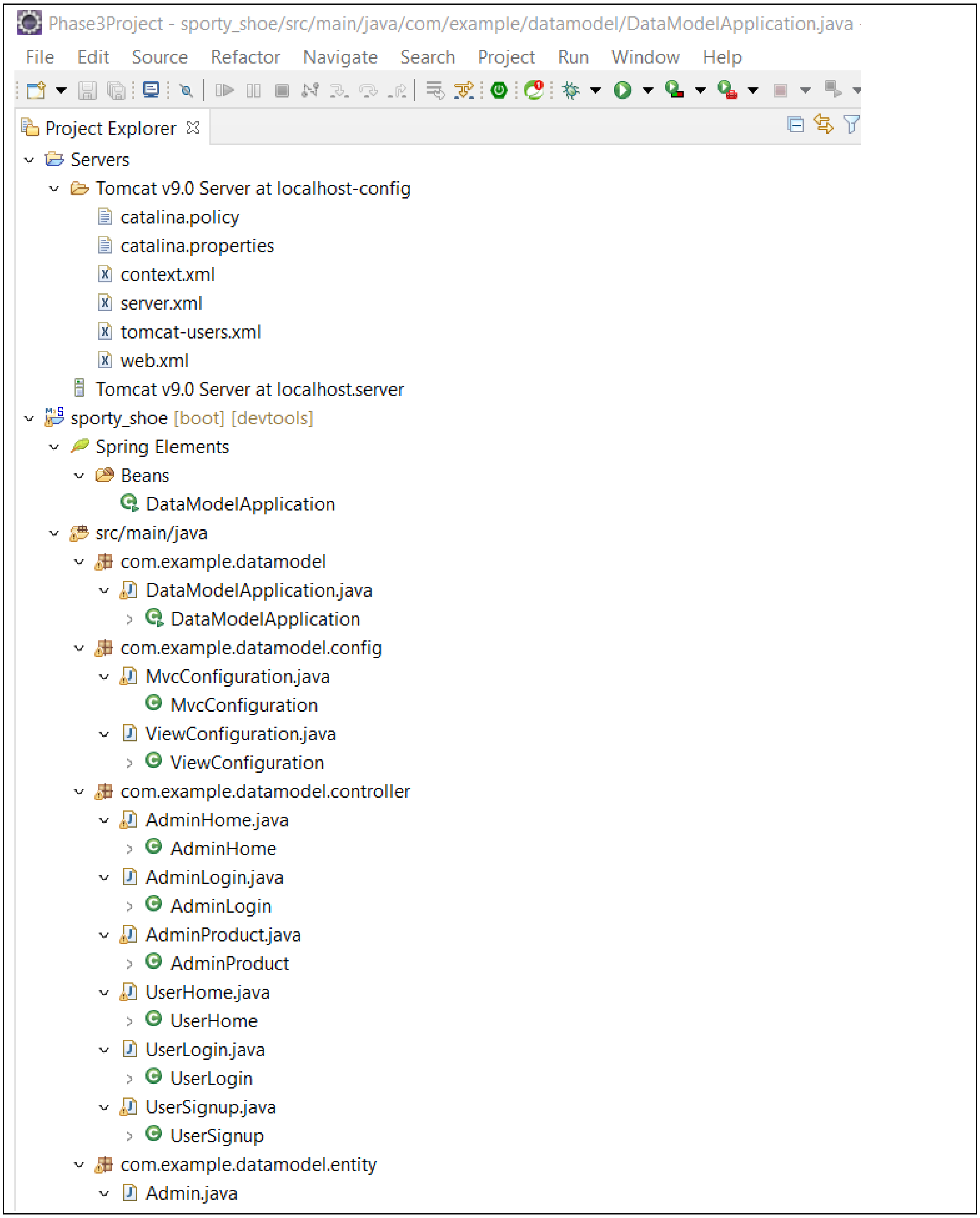
Phase3Project - sporty_shoe/src/main/java/com/example/datamodel/DataModelApplication.java

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    server.xml
    tomcat-users.xml
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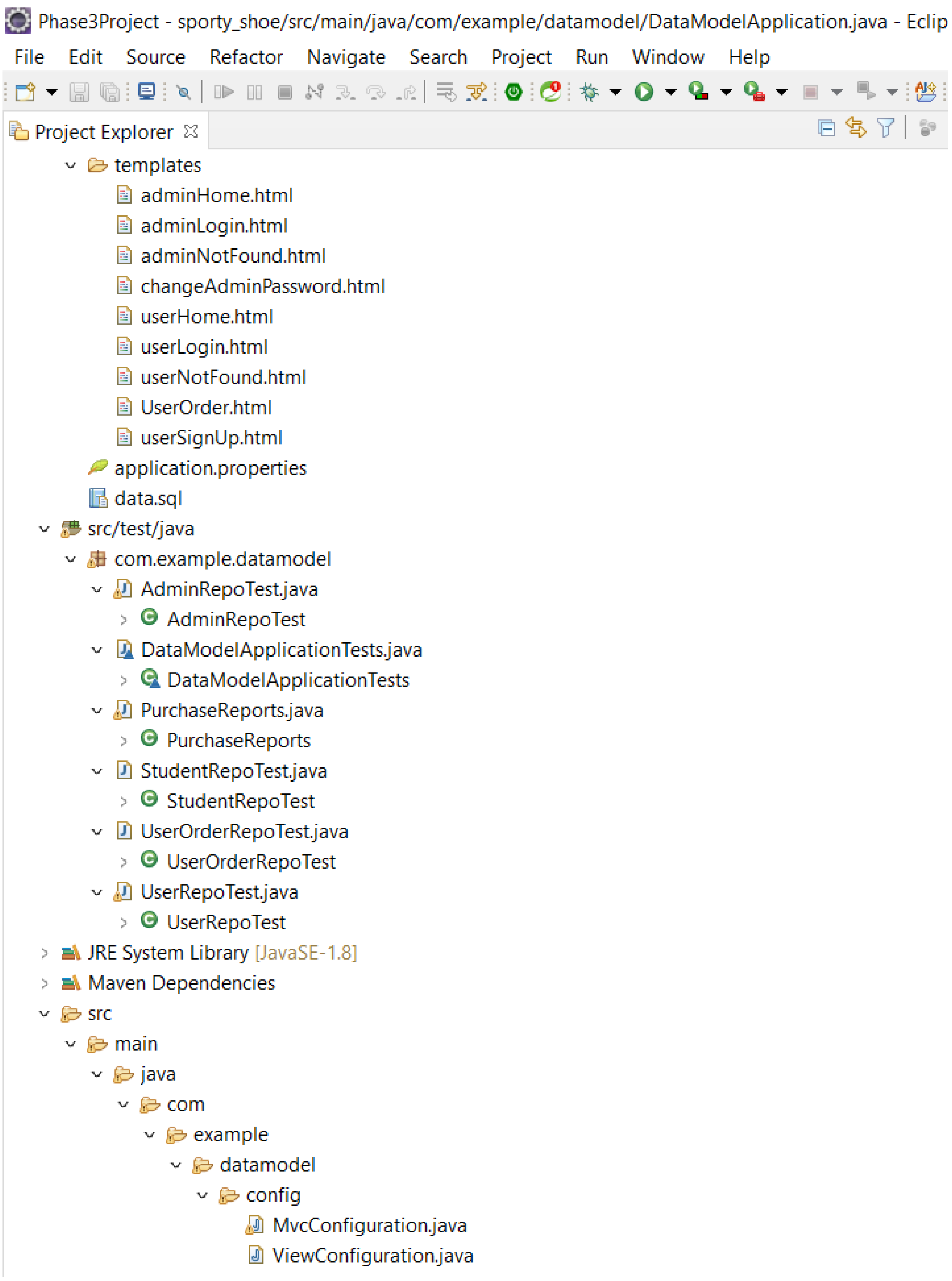
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```
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            DataModelApplicationTests
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    main
        java
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```

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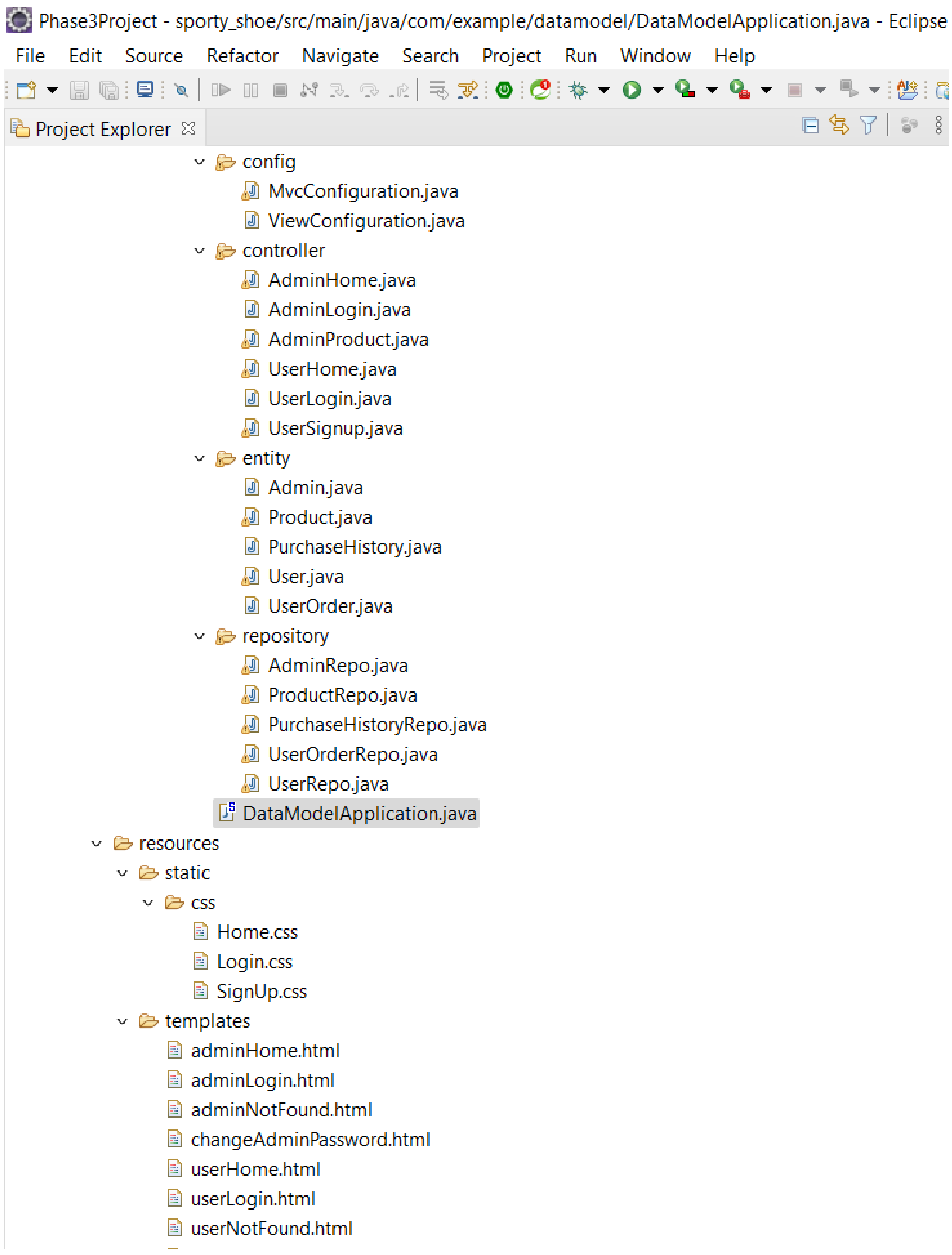
Phase3Project - sporty_shoe/src/main/java/com/example/datamodel/DataModelApplication.java - Eclipse

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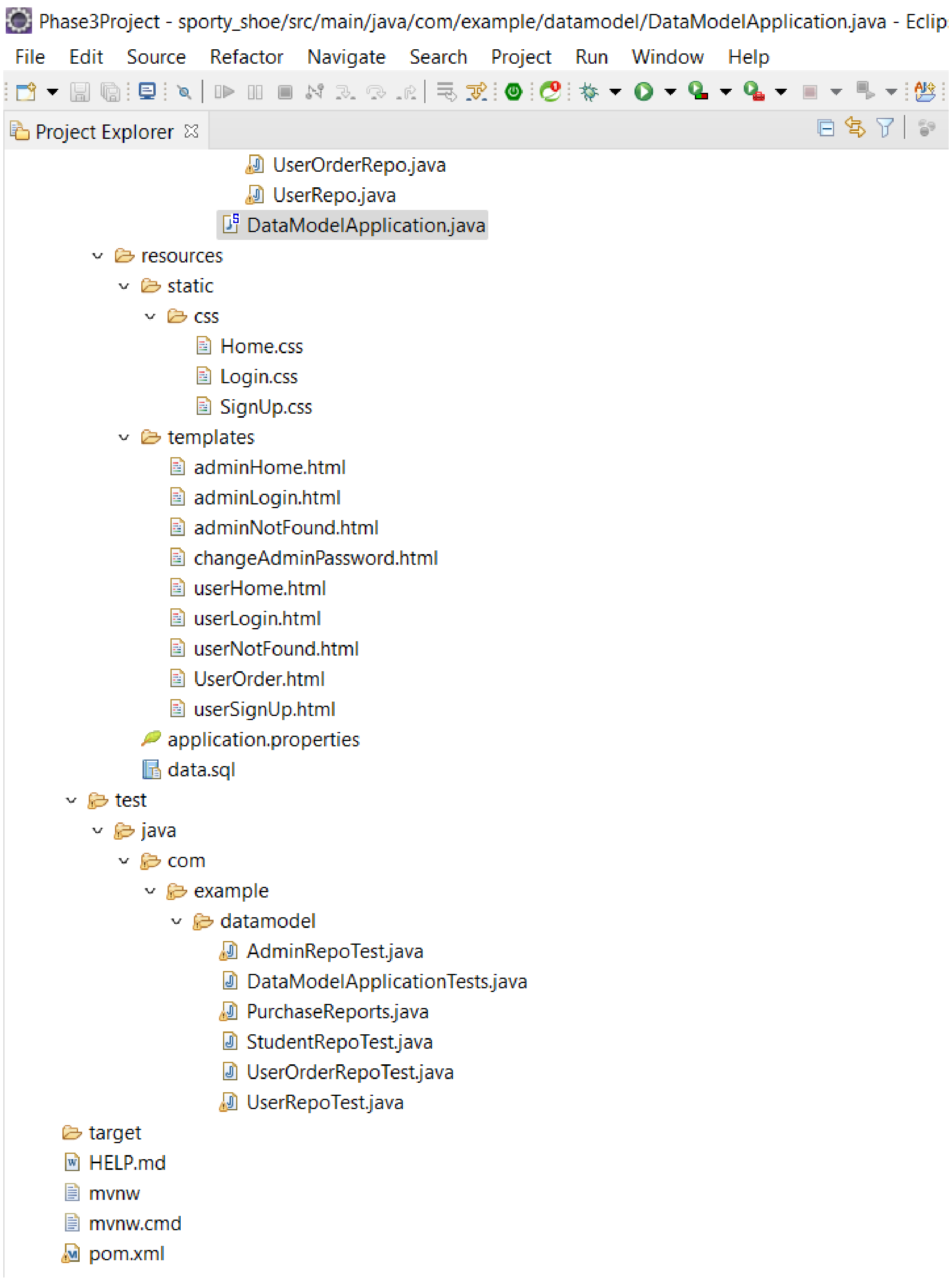
        adminHome.html
        adminLogin.html
        adminNotFound.html
        changeAdminPassword.html
        userHome.html
        userLogin.html
        userNotFound.html
```

SOURCE CODE



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          SignUp.css
      templates
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        adminNotFound.html
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HELP.md
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3. Project Code:

1. Pom.Xml

```
<?xml version="1.0" encoding="UTF-8"?>
<project
xmlns="http://maven.apache.org/POM/4.0.0"xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
	xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
	<modelVersion>4.0.0</modelVersion>
	<parent>
		<groupId>org.springframework.boot</groupId>
		<artifactId>spring-boot-starter-parent</artifactId>
		<version>2.5.6</version>
		<relativePath/><!-- lookup parent from repository -->
	</parent>
	<groupId>com.sportsshoes</groupId>
	<artifactId>sporty_shoe</artifactId>
	<version>0.0.1-SNAPSHOT</version>
	<name>sporty_shoe</name>
	<description>Demo project for Spring Boot</description>
	<properties>
		<java.version>1.8</java.version>
	</properties>
	<dependencies>
		<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-data-jdbc</artifactId>
</dependency>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-data-jpa</artifactId>
</dependency>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-jdbc</artifactId>
</dependency>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-web</artifactId>
```

```
</dependency>

<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-devtools</artifactId>
<scope>runtime</scope>
<optional>true</optional>
</dependency>
<dependency>
<groupId>mysql</groupId>
<artifactId>mysql-connector-java</artifactId>
<scope>runtime</scope>
</dependency>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-test</artifactId>
<scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/org.springframework.boot/spring-boot-starter-thymeleaf -->
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-thymeleaf</artifactId>
<version>2.5.6</version>
</dependency>
        </dependencies>

        <build>
                <plugins>
                        <plugin>
                                <groupId>org.springframework.boot</groupId>
                                <artifactId>spring-boot-maven-plugin</artifactId>
                        </plugin>
                </plugins>
        </build>

</project>
```

2. DataModelApplication.java

```
package com.example.datamodel;
```

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```
import com.example.datamodel.repository.*;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.CommandLineRunner;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

import java.util.Date;

@SpringBootApplication
public class DataModelApplication implements CommandLineRunner {

  @Autowired
  private UserOrderRepouserOrderRepo;

  @Autowired
  private ProductRepoproductRepo;

  @Autowired
   private AdminRepoadminRepo;

  @Autowired
  private UserRepouserRepo;

  @Autowired
  private PurchaseHistoryRepopurchaseHistoryRepo;

   private Logger logger  =LoggerFactory.getLogger(this.getClass());


   public static void main(String[] args) {

SpringApplication.run(DataModelApplication.class, args);
   }


   @Override
   public void run(String... args) throws Exception {
      //purchaseHistoryRepo.

//          logger.info("list result -> {}",adminRepo.filterByDateAndCategory());
//          logger.info("gotcha -> {}", userOrderRepo.insert());
   }
}
```

3. MvcConfiguration.java.

```
package com.example.datamodel.config;

import org.springframework.context.annotation.Configuration;
import org.springframework.web.servlet.config.annotation.EnableWebMvc;


@Configuration
public class MvcConfiguration {
}
```

4. ViewConfiguration.java

```
package com.example.datamodel.config;

import org.springframework.context.ApplicationContext;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.web.servlet.ViewResolver;
import org.thymeleaf.spring5.SpringTemplateEngine;
import org.thymeleaf.spring5.templateresolver.SpringResourceTemplateResolver;
import org.thymeleaf.spring5.view.ThymeleafViewResolver;
import org.thymeleaf.templateresolver.ITemplateResolver;

@Configuration
public class ViewConfiguration {
    private final ApplicationContextapplicationContext;

    public ViewConfiguration(ApplicationContextapplicationContext) {
this.applicationContext = applicationContext;
    }
```

```
   @Bean
   public ITemplateResolvertemplateResolver() {
SpringResourceTemplateResolvertemplateResolver = new SpringResourceTemplateResolver();
templateResolver.setApplicationContext(applicationContext);
templateResolver.setPrefix("classpath:/templates/");
templateResolver.setSuffix(".html");
templateResolver.setTemplateMode("HTML");
templateResolver.setCharacterEncoding("UTF-8");
       return templateResolver;

   }

   @Bean
   public SpringTemplateEnginetemplateEngine() {
SpringTemplateEnginetemplateEngine = new SpringTemplateEngine();
templateEngine.setEnableSpringELCompiler(true);
templateEngine.setTemplateResolver(templateResolver());
       return templateEngine;
   }

   @Bean
   public ViewResolverviewResolver() {
ThymeleafViewResolverviewResolver = new ThymeleafViewResolver();
viewResolver.setTemplateEngine(templateEngine());
       return viewResolver;
   }
}
```

5. AdminHome.java

```
package com.example.datamodel.controller;

import com.example.datamodel.entity.*;
import com.example.datamodel.repository.AdminRepo;
import com.example.datamodel.repository.ProductRepo;
import com.example.datamodel.repository.PurchaseHistoryRepo;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

@Controller
public class AdminHome {

   @Autowired
   private AdminRepoadminRepo;

   @Autowired
   private ProductRepoproductRepo;

   @Autowired
   private PurchaseHistoryRepopurchaseHistoryRepo;

   @RequestMapping("/change")
   public String change() {
      return "changeAdminPassword";
   }

   @PostMapping("/changePassword")
   public String changePassword(@RequestParam Map<String,String>maps) {
      String email = maps.get("email");
      String oldPassword = maps.get("oldPassword");
      String newPassword = maps.get("newPassword");
      Admin admin = adminRepo.changePasswordByEmail(email,oldPassword,newPassword);
if(admin == null) {
         return "adminNotFound";
      } else {
         return "adminLogin";
      }
   }

   @RequestMapping("/getUsers")
   public String getUsers(Model model) {
      List<User> users = adminRepo.getAllUsersForAdmin();
model.addAttribute("users",users);
      return "adminHome";
   }

   @RequestMapping("/searchUser")
   public String searchUserByName(Model model, @RequestParam Map<String, String> maps) {
      String name = maps.get("name");
      List<User> users = adminRepo.searchUser(name);
model.addAttribute("users",users);
```

```
        return "adminHome";
    }

    @RequestMapping("/purchaseHistory")
    public String purchaseReports(Model model) {
        List<PurchaseHistory>purchaseHistories = purchaseHistoryRepo.getPurchaseHistory();
model.addAttribute("purchaseHistory",purchaseHistories);
        return "adminHome";
    }

}
```

6. AdminLogoin.java

```
package com.example.datamodel.controller;

import com.example.datamodel.repository.AdminRepo;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;

import java.util.Map;

@Controller
public class AdminLogin {

    @Autowired
    private AdminRepoadminRepo;

    @RequestMapping("/admin")
    public String admin() {
        return "adminLogin";
    }


    @PostMapping("/adminLogin")
    public String adminLogin(@RequestParam Map<String, String> maps) {
        String email = maps.get("email");
        String password = maps.get("password");
if(adminRepo.verifyAdmin(email,password) ==null) {
            return "adminNotFound";
        }
else  {
            return "adminHome";
        }
    }

}
```

7. AdminProduct.java

```
package com.example.datamodel.controller;

import com.example.datamodel.repository.AdminRepo;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;

import java.util.Map;

@Controller
public class AdminLogin {

    @Autowired
    private AdminRepoadminRepo;

    @RequestMapping("/admin")
    public String admin() {
        return "adminLogin";
    }


    @PostMapping("/adminLogin")
    public String adminLogin(@RequestParam Map<String, String> maps) {
        String email = maps.get("email");
        String password = maps.get("password");
if(adminRepo.verifyAdmin(email,password) ==null) {
            return "adminNotFound";
        }
else  {
            return "adminHome";
        }
    }

}
```

8. UserHome.java

```
package com.example.datamodel.controller;

import com.example.datamodel.entity.Product;
import com.example.datamodel.entity.User;
import com.example.datamodel.entity.UserOrder;
import com.example.datamodel.repository.ProductRepo;
import com.example.datamodel.repository.UserOrderRepo;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.web.servlet.server.Session;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
import java.util.List;
import java.util.Map;

@Controller
public class UserHome {
   @Autowired
   private ProductRepoproductRepo;

   @Autowired
   private UserOrderRepouserOrderRepo;

   @RequestMapping("/add")
   public String addProduct(Model model,  HttpServletRequest request, HttpServletResponse response)
{
      List<Product> products = productRepo.getAllProducts();
model.addAttribute("products",products);
      return "userHome";
   }

   @RequestMapping("/addProducts")
   public String addProductToOrder(Model model, @RequestParam("id") Long id, HttpServletRequest
request, HttpServletResponse response) {
      User user = (User)request.getSession().getAttribute("user");
      Long userId = user.getId();
UserOrderuserOrder = productRepo.addProductToUserOrder(id,userId);
      Long orderId = userOrder.getId();
      Long price = userOrderRepo.addTotalCostToOrder(orderId);
model.addAttribute("order",userOrder);
model.addAttribute("price",price);
      return "UserOrder";
   }
}
```

9. UserLogin.java

```
package com.example.datamodel.controller;

import com.example.datamodel.entity.User;
import com.example.datamodel.repository.UserRepo;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.*;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
import java.util.Map;

@Controller
@SessionAttributes({"user"})
public class UserLogin {

   @Autowired
   private UserRepouserRepo;

   @Autowired
HttpSession session;

   @RequestMapping("/")
   public String loginPage() {
      return "userLogin";
   }
```

```
    @PostMapping("/userLogin")
    public String loginUser(Model model, @RequestParam Map<String, String> maps, HttpServletRequest
request, HttpServletResponse response) throws Exception {
        String email = maps.get("email");
        String password = maps.get("password");
     User user = userRepo.verifyUser(email,password);
request.getSession().setAttribute("user",user);

if(userRepo.verifyUser(email,password) ==null) {
            return "userNotFound";
        }
        else {

            return "userHome";
        }
    }
}
```

10. UserSignup.java

```
package com.example.datamodel.controller;

import com.example.datamodel.entity.User;
import com.example.datamodel.repository.UserRepo;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;

@Controller
public class UserSignup {

    @Autowired
    private UserRepouserRepo;


    @RequestMapping("/signup")
    public String signUp() {
        return "userSignUp";
```

```
   }


   @RequestMapping("/UserSignUp")
   public String createUser(@ModelAttribute User user) {
      User u = userRepo.addNewUser(user);
      return "userLogin";
   }
}
```

11. Admin.java

```
packagecom.example.datamodel.entity;

importjavax.persistence.*;

/*
* STORES ADMIN DETAILS TO DATABASE
* */
@Entity
@NamedQuery(name = "get_all_admins", query = "select a from Admin a")
publicclass Admin {


   @Id
   @GeneratedValue(strategy = GenerationType.IDENTITY)
   @Column(name = "id", updatable = false, nullable = false)
privateLong id;

private String password;

private String adminName;

private String email;

publicAdmin(String password, String adminName, String email) {
this.password = password;
this.adminName = adminName;
this.email = email;
   }
   /*
   * Empty constructor to make JPA happy
   * so any kind of data can be acceptable*/
publicAdmin() {

   }
   /*
   * getter & setter for fetching and updating the data*/
public Long getId() {
return id;
   }

publicvoidsetId(Long id) {
this.id = id;
   }

public String getPassword() {
return password;
   }

publicvoidsetPassword(String password) {
this.password = password;
   }

public String getAdminName() {
returnadminName;
   }

publicvoidsetAdminName(String adminName) {
this.adminName = adminName;
   }

public String getEmail() {
return email;
   }

publicvoidsetEmail(String email) {
this.email = email;
   }

   @Override
public String toString() {
return "Admin{" +
            "id=" + id +
            ", password='" + password + '\'' +
            ", adminName='" + adminName + '\'' +
            ", email='" + email + '\'' +
            '}';
```

```
    }
}
```

12. Product.java

```
package com.example.datamodel.entity;

import javax.persistence.*;
import java.util.ArrayList;
import java.util.Date;
import java.util.List;

@Entity
@NamedQueries(value =  {
        @NamedQuery(name = "get_all_products", query = "Select p FROM Product p")
})
public class Product {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Column(name = "id", updatable = false, nullable = false)
    private Long id;

    private String category;

    private String productName;




    private Long cost;



    @ManyToMany(fetch = FetchType.EAGER)
    @JoinTable(name="order_product",
joinColumns = @JoinColumn(name="product_id"),
inverseJoinColumns = @JoinColumn(name = "order_id")
    )
    private List<UserOrder>userOrders = new ArrayList<>();

    public Product() {
    }
    public Product(String productName,String category, Long cost, List<UserOrder>userOrders) {
this.productName = productName;

this.category = category;
this.cost = cost;
this.userOrders = userOrders;
    }

    public Product(String productName,String category, Long cost) {
this.productName = productName;
this.category = category;
this.cost = cost;
    }

    public String getCategory() {
        return category;
    }

    public void setCategory(String category) {
this.category = category;
    }

    public Long getCost() {
        return cost;
    }

    public void setCost(Long cost) {
this.cost = cost;
    }

    public Product(String productName) {
this.productName = productName;

    }

    public Long getId() {
        return id;
    }

    public void setId(Long id) {
        this.id = id;
    }

    public String getProductName() {
        return productName;
    }
```

```
   public void setProductName(String productName) {
this.productName = productName;
   }

   public List<UserOrder>getUserOrders() {
      return userOrders;
   }

   public void addUserOrders(UserOrderuserOrder) {
this.userOrders.add(userOrder);
   }

   public void delUserOrders(UserOrderuserOrder) {
this.userOrders.remove(userOrder);
   }


   @Override
   public String toString() {
      return "Product{" +
            "id=" + id +
            ", productName='" + productName + '\'' +
            '}';
   }
}
```

PurchaseHistory.java

```
package com.example.datamodel.entity;

import javax.persistence.*;
import java.util.Date;

@Entity
public class PurchaseHistory {



   @Id
   @GeneratedValue(strategy = GenerationType.IDENTITY)
   @Column(name = "id", updatable = false, nullable = false)
   private Long id;

   private Long productId;

   private Long orderId;

   private Long cost;

   private Long total;

   private Long UserId;

   private String category;

   private String productName;

   private Date date;

   public PurchaseHistory() {
   }

   public PurchaseHistory(Long productId, Long orderId, Long cost, Long total, Long userId, String
category, String productName, Date date) {
this.productId = productId;
this.orderId = orderId;
this.cost = cost;
this.total = total;
UserId = userId;
this.category = category;
this.productName = productName;
this.date = date;
   }

   public Long getId() {
      return id;
   }

   public void setId(Long id) {
      this.id = id;
   }

   public Long getProductId() {
      return productId;
   }
```

```
    public void setProductId(Long productId) {
this.productId = productId;
    }

    public Long getOrderId() {
        return orderId;
    }

    public void setOrderId(Long orderId) {
this.orderId = orderId;
    }

    public Long getCost() {
        return cost;
    }

    public void setCost(Long cost) {
this.cost = cost;
    }

    public Long getTotal() {
        return total;
    }

    public void setTotal(Long total) {
this.total = total;
    }

    public Long getUserId() {
        return UserId;
    }

    public void setUserId(Long userId) {
UserId = userId;
    }

    public String getCategory() {
        return category;
    }

    public void setCategory(String category) {
this.category = category;
    }

    public String getProductName() {
        return productName;
    }
    public void setProductName(String productName) {
this.productName = productName;
    }

    public Date getDate() {
        return date;
    }

    public void setDate(Date date) {
this.date = date;
    }

    @Override
    public String toString() {
        return "PurchaseHistory{" +
                "id=" + id +
                ", productId=" + productId +
                ", orderId=" + orderId +
                ", cost=" + cost +
                ", total=" + total +
                ", UserId=" + UserId +
                ", category='" + category + '\'' +
                ", productName='" + productName + '\'' +
                ", date=" + date +
                '}';
    }
}
```

13. User.java

```
package com.example.datamodel.entity;

import org.springframework.web.context.annotation.SessionScope;

import javax.persistence.*;

@Entity
@NamedQueries(
        value = {
                @NamedQuery(name="get_all_users", query = "select u from User u")
```

```
    }
)
public class User {
  @Id
  @GeneratedValue(strategy = GenerationType.IDENTITY)
  @Column(name = "id", updatable = false, nullable = false)
  private Long id;

  private String userName;

  private String email;

  private String name;

  private String password;

  @OneToOne(cascade = {CascadeType.ALL})
  private UserOrderuserOrder;

  public UserOrdergetUserOrder() {
    return userOrder;
  }


  public void setUserOrder(UserOrderuserOrder) {
this.userOrder = userOrder;
  }

  public User() {
  }

  public User(String userName, String email, String name, String password) {
this.userName = userName;
this.email = email;
    this.name = name;
this.password = password;
  }

  public Long getId() {
    return id;
  }

  public void setId(Long id) {
    this.id = id;
  }

  public String getUserName() {
    return userName;
  }

  public void setUserName(String userName) {
this.userName = userName;
  }

  public String getEmail() {
    return email;
  }

  public void setEmail(String email) {
this.email = email;
  }

  public String getName() {
    return name;
  }

  public void setName(String name) {
    this.name = name;
  }

  public String getPassword() {
    return password;
  }

  public void setPassword(String password) {
this.password = password;
  }

  @Override
  public String toString() {
    return "User{" +
        "id=" + id +
        ", userName='" + userName + '\'' +
        ", email='" + email + '\'' +
        ", name='" + name + '\'' +
        ", password='" + password + '\'' +
        '}';
  }
}
```

14. UserOrder.java

```
package com.example.datamodel.entity;

import javax.persistence.*;
import java.util.ArrayList;
import java.util.Date;
import java.util.List;

@Entity
@NamedQueries(value =  {
    @NamedQuery(name = "get_all_orders", query = "Select u FROM UserOrder u")
})
public class UserOrder {
  @Id
  @GeneratedValue(strategy = GenerationType.IDENTITY)
  @Column(name = "id", updatable = false, nullable = false)
  private Long id;

  private Long total;

  public User getUser() {
    return user;
  }

  public void setUser(User user) {
this.user = user;
  }

  @OneToOne(cascade = {CascadeType.ALL})
  private User user;

  private Date date;

  @ManyToMany(mappedBy = "userOrders",fetch = FetchType.EAGER)
  private List<Product> products = new ArrayList<>();

  public UserOrder() {
  }

  public UserOrder(Long total, Date date) {
this.total = total;
this.date = date;
   }

   public UserOrder(Date date) {
this.date = date;
      this.id= user.getId();
   }

   public UserOrder(Date date,Long id) {
this.date = date;
   }

   public UserOrder(Long total, Date date, List<Product> products) {
this.total = total;
this.date = date;
this.products = products;
   }

   public UserOrder(Long total) {
this.total = total;

   }

   public Date getDate() {
      return date;
   }

   public void setDate(Date date) {
this.date = date;
   }

   public Long getId() {
      return id;
   }

   public void setId(Long id) {
      this.id = id;
   }

   public Long getTotal() {
      return total;
   }

   public void setTotal(Long total) {
this.total = total;
   }
```

```
    public List<Product>getProducts() {
        return products;
    }

    public void addProducts(Product product) {
this.products.add(product);
    }
    public void delProducts(Product product) {
this.products.remove(product);
    }

    @Override
    public String toString() {
        return "UserOrder{" +
                "id=" + id +
                ", total=" + total +
                ", date=" + date +
                ", products=" + products +
                '}';
    }
}
```

15. AdminRepo.java

```
package com.example.datamodel.repository;


import com.example.datamodel.entity.Admin;
import com.example.datamodel.entity.User;
import com.example.datamodel.entity.UserOrder;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Repository;

import javax.persistence.EntityManager;
import javax.persistence.TypedQuery;
import javax.transaction.Transactional;
import java.util.ArrayList;
import java.util.List;

@Repository
@Transactional
```

```
public class AdminRepo {

   @Autowired
EntityManagerem;

   private Logger log = LoggerFactory.getLogger(this.getClass());

   @Autowired
   private UserOrderRepouserOrderRepo;

   @Autowired
   private ProductRepoproductRepo;

   @Autowired
   private UserRepouserRepo;


   /*
   * Add a new admin if not exists already
   * Using persist of Entity Manager
   * if exist used merge to update the admin data
   * */
   public Admin saveAdmin(Admin admin) {
      if(admin.getId() == null) {
em.persist(admin);
      } else {
em.merge(admin);
      }
      return admin;
   }

   /*
   * find a admin using id
   * used Entity manager's find method
   * which returns the admin object*/
   public Admin findById(Long adminId) {
      Admin admin =em.find(Admin.class, adminId);
log.info("admin retrieved -> {}",admin);
      return admin;
   }

   /*
   * update admin password
   * first find user using findById
   * then verify with oldPassword
   * then update newPassword*/
   public String changePassword(Long adminId, String oldPassword, String newPassword) {
        Admin admin = findById(adminId);
        if(admin.getPassword() == oldPassword) {
admin.setPassword(newPassword);
            return "Password change successfull";
        } else {
            return "Password mismatch";
        }
    }

    public void filterByDateAndCategory() {
        List<UserOrder> orders = userOrderRepo.getAllOrders();
        List<List>ordersWithProducts = new ArrayList<>();
for(Long i = 0L; i<orders.size(); i++) {
UserOrderuserOrder = em.find(UserOrder.class,i);
ordersWithProducts.add(userOrder.getProducts());
        }

    }

    public List<Admin>getAdmins() {
TypedQuery<Admin> query = em.createNamedQuery("get_all_admins",Admin.class);
        List<Admin> result =  query.getResultList();
        return result;
    }

    public Admin verifyAdmin(String email, String password) {
        Admin admin = null;
        List<Admin> admins = getAdmins();
for(int i = 0; i<admins.size();i++) {
            admin = admins.get(i);
            if(admin.getEmail().equals(email)) {
if( admin.getPassword().equals(password) ) {
                    break;
                }
            }
        }
log.info("admin -> {}",admin);
        return admin;
    }

    public Admin changePasswordByEmail(String email, String oldPassword, String newPassword) {
        Admin admin = verifyAdmin(email,oldPassword);
if(admin == null) {
            return null;
        } else {
            Long id = admin.getId();
changePassword(id,oldPassword,newPassword);
```

```
            return admin;
        }
    }
    public List<User>getAllUsersForAdmin() {
        List<User> users = userRepo.getUsers();
        return users;
    }
    public List<User>searchUser(String name) {
        List users = userRepo.searchUserByName(name);
        return users;
    }


}
```

16. ProductRepo.java

```
package com.example.datamodel.repository;


import com.example.datamodel.entity.Product;
import com.example.datamodel.entity.User;
import com.example.datamodel.entity.UserOrder;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Repository;

import javax.persistence.EntityManager;
import javax.persistence.Query;
import javax.persistence.TypedQuery;
import javax.transaction.Transactional;
import java.util.List;

@Repository
@Transactional
public class ProductRepo {
   @Autowired
EntityManagerem;


   @Autowired
   private UserRepouserRepo;

   @Autowired
   private UserOrderRepouserOrderRepo;


   private Logger log = LoggerFactory.getLogger(this.getClass());

   public Product searchProduct(Long id) {
      Product product = em.find(Product.class, id);
      return product;
   }

   public List<Product>getAllProducts() {
TypedQuery<Product> query = em.createNamedQuery("get_all_products", Product.class);
      List<Product> result = query.getResultList();
      return result;
   }

   public String delProduct(Long id) {
      Product product = searchProduct(id);
em.remove(product);
      return "deleted Successfully";
   }

   public Product addProduct(Product product) {
em.persist(product);
      return product;
   }

   public Product updateProduct(Long id, Product product) {
      Product p1 = searchProduct(id);
      if (p1.getId() == null) {
em.persist(product);
      } else {
em.merge(product);

      }
      return product;
   }
```

```
    public UserOrderaddProductToOrder(Long orderId, Long productId) {
UserOrderuserOrder = em.find(UserOrder.class, orderId);
        Product product = em.find(Product.class, productId);
userOrder.addProducts(product);
product.addUserOrders(userOrder);
em.persist(userOrder);
        return userOrder;

    }

    public UserOrderaddProductToUserOrder(Long ProductId, Long userId) {
UserOrderuserOrder = userOrderRepo.createNewOrder(userId);
        Long orderId = userOrder.getId();
UserOrder userOrder1 = addProductToOrder(orderId, ProductId);
        return userOrder1;
    }


    public List<Object[]>testPurchaseRepoQuery() {
        Query q = em.createQuery("select uo,p from UserOrderuo JOIN uo.products p order by
p.categorydesc ");
        List<Object[]>resultList = q.getResultList();
        return resultList;
    }
}
```

17. PurchaseHistory.java

```
package com.example.datamodel.repository;

import com.example.datamodel.entity.Product;
import com.example.datamodel.entity.PurchaseHistory;
import com.example.datamodel.entity.UserOrder;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Repository;

import javax.persistence.*;
import javax.transaction.Transactional;
import java.util.*;

@Repository
@Transactional
public class PurchaseHistoryRepo {

   @Autowired
EntityManagerem;

   @Autowired
   private ProductRepoproductRepo;


   public void save(PurchaseHistorypurchaseHistory) {
em.persist(purchaseHistory);
   }

   public void addDataToPurchaseHistory() {

em.createNativeQuery("TRUNCATE TABLE purchase_history;").executeUpdate();

      List<Object[]>resultlist = productRepo.testPurchaseRepoQuery();
for(Object[] result:resultlist) {
         Product product = (Product) result[1];
UserOrderuserOrder = (UserOrder) result[0];
         Long productId= product.getId();
         Long orderId = userOrder.getId();
         Long cost = product.getCost();
         Long total = userOrder.getTotal();
         Long userId=userOrder.getUser().getId();
         String category = product.getCategory();
         String productName = product.getProductName();
         Date date = userOrder.getDate();
PurchaseHistorypurchaseHistory = new
PurchaseHistory(productId,orderId,cost,total,userId,category,productName,date);
         save(purchaseHistory);

      }
   }

   public List<PurchaseHistory>getPurchaseHistory() {
addDataToPurchaseHistory();
TypedQuery<PurchaseHistory> query = (TypedQuery<PurchaseHistory>)
em.createNativeQuery("SELECT * FROM datamodel.purchase_history order by category and date
desc;",PurchaseHistory.class);
      List<PurchaseHistory> result = query.getResultList();
      return result;
```

```
    }


}
```

18. UserOrderRepo.java

```
package com.example.datamodel.repository;

import com.example.datamodel.entity.Product;
import com.example.datamodel.entity.User;
import com.example.datamodel.entity.UserOrder;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.context.annotation.Lazy;
import org.springframework.stereotype.Repository;

import javax.persistence.EntityManager;
import javax.persistence.TypedQuery;
import javax.transaction.Transactional;
import java.util.Date;
import java.util.List;


@Repository
@Transactional
public class UserOrderRepo {

    @Autowired
EntityManagerem;




    private UserRepouserRepo;

    @Autowired
    public UserOrderRepo(@Lazy UserRepouserRepo) {
this.userRepo = userRepo;
```

```
  }


  private Logger log = LoggerFactory.getLogger(this.getClass());

  public UserOrderinsert() {
UserOrderuserOrder = new UserOrder(700L);
      Product product = new Product("rahu");
em.persist(userOrder);
em.persist(product);

userOrder.addProducts(product);
product.addUserOrders(userOrder);
em.persist(userOrder);
      return userOrder;
  }

  public Long totalCost(Long orderId) {
UserOrderuserOrder = em.find(UserOrder.class,orderId);
      List<Product> products = userOrder.getProducts();
      Long sum = 0L;
for(int i = 0; i<products.size(); i++) {
          sum += products.get(i).getCost();
      }
      return sum;
  }

  public Long addTotalCostToOrder(Long orderId) {
      Long sum = totalCost(orderId);
UserOrderuserOrder = em.find(UserOrder.class,orderId);
userOrder.setTotal(sum);
em.persist(userOrder);
em.flush();
      return userOrder.getTotal();
  }

  public List<UserOrder>getAllOrders() {
TypedQuery<UserOrder> query = em.createNamedQuery("get_all_orders",UserOrder.class);
      List<UserOrder> result =  query.getResultList();
      return result;
  }

  public UserOrdercreateNewOrder(Long id) {
      User user = em.find(User.class,id);
UserOrderuserOrder = user.getUserOrder();
      if(userOrder==null) {
userOrder = new UserOrder(new Date(),id);
em.persist(userOrder);
userRepo.addUserOrderToUser(id,userOrder);
userOrder.setUser(em.find(User.class,id));
em.persist(userOrder);
            return userOrder;
        } else {
            return userOrder;
        }
    }

    public UserOrdergetOrder(Long orderId) {
UserOrderuserOrder = em.find(UserOrder.class,orderId);
        return userOrder;
    }

}
```

19. UserRepo.java

```
package com.example.datamodel.repository;

import com.example.datamodel.entity.User;
import com.example.datamodel.entity.UserOrder;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Repository;


import javax.persistence.EntityManager;
import javax.persistence.Query;
import javax.persistence.TypedQuery;
import javax.transaction.Transactional;
import java.util.List;
import java.util.Queue;

@Repository
@Transactional
public class UserRepo {

    @Autowired
```

```
EntityManagerem;


    private Logger log = LoggerFactory.getLogger(this.getClass());

    /*
     * find user by user id
     * using entity manager's find method
     * return type is user object*/
    public User findUserById(Long userId) {
        User user = em.find(User.class, userId);
log.info("user object returned -> {}", user);
        return user;

    }

    public User userUpdate(Long userId, String oldPassword, String newPassword) {
        User user=  em.find(User.class, userId);

        if (user.getPassword() == oldPassword) {
user.setPassword(newPassword);
            if (user.getPassword() == newPassword) {
                return user;
            } else {
                return null;
            }
        } else {
            return null;
        }
    }

    public User addNewUser(User user) {
em.persist(user);
        return user;
    }

    public List<User>getUsers() {
TypedQuery<User> query = em.createNamedQuery("get_all_users",User.class);
        List<User> result =  query.getResultList();
        return result;
    }

    public User verifyUser(String email, String password) {
        User user = null;

        List<User> users = getUsers();
        User newuser = null;
        for (int i = 0; i<users.size(); i++) {
            user = users.get(i);
            if (user.getEmail().equals(email)) {
                if (user.getPassword().equals(password)) {
newuser = user;
                    break;
                }

            }
        }
log.info("user -> {}", user);
        return newuser;
    }

    public List<User>searchUserByName(String name) {
        Query query = em.createNativeQuery("Select * from user where name = :name",User.class);
query.setParameter("name",name);
        List result = query.getResultList();
        return result;
    }

    public void addUserOrderToUser(Long id, UserOrderuserOrder) {
        User user = em.find(User.class,id);
user.setUserOrder(userOrder);
em.merge(user);

    }

    public UserOrderverifyUserToOrder(Long userId) {
        User user = em.find(User.class,userId);
            return user.getUserOrder();

    }



}
```

20. Home.css

```
@charset "ISO-8859-1";
ul {
   list-style-type: none;
   margin: 0;
   padding: 0;
   width: 100%;
   top: 0;
   overflow: hidden;
   position: -webkit-sticky; /* Safari */
   position: sticky;
   background-color: #333;

}
li {

   float: left;
}
lia {
   display: block;
color: white;
   text-align: center;
   padding: 14px16px;
   text-decoration: none;
}
li:last-child {
   border-bottom: none;
}
lia:hover {
   background-color: #111;
color: white;
}
.active {
   background-color: #04AA6D;
color: white;
}

* {
   padding: 0;
   margin: 0;
   box-sizing: border-box;
}

body {
   background: #fefefe;
   font-family: sans-serif;
}
```

```
.container {
   width: 90%;
   margin: 50pxauto;
}
.heading {
   text-align: center;
   font-size: 30px;
   margin-bottom: 50px;
}
.row{
   display: flex;
   flex-direction: row;
   justify-content: space-around;
}

.card {
   width: 20%;
   background: #fff;
   border: 1pxsolid#ccc;
   margin-bottom: 50px;
   margin-left: 5%;
   border-radius: 20px;
   transition: 0.3s;

}

.card-header {
   text-align: center;
   padding: 50px10px;
   background: linear-gradient(toright,#ff416c,#2bbefd);
color: #fff;
   border-radius: 20px;
}

.card-body {
   padding: 30px20px;
   align-content: center;
   text-align: center;
   font-size: 18px;

}

.card-body.btn {
   display: block;
color: #fff;
   text-align: center;
   background: linear-gradient(toright,#045159,#24f3f3);
   margin-top: 30px;
   text-decoration: none;
   padding:10px5px;
}

.card:hover {
   transform: scale(1.05);
   box-shadow: 0040px-10pxrgba(0,0,0,0.75);
}

@media screen and (max-width:1000px) {
.card {
      width: 40%;
   }
}


@media screen and (max-width:620px) {
.container {
      width: 100%;

   }

.heading {
      padding: 20px;
      font-size: 20px;
   }
.card {
      width: 80%;
   }
}
.link {
   display: flex;

   text-decoration: none;
   outline: none;
   border: none;
   cursor: pointer;
   width: 100%;
   height: 60px;
   border-radius: 30px;
   font-weight: 700;
   font-family: "Lato",sans-serif;
color: #fff;
   align-items: center;
   justify-content: center;
   text-align: center;
```

```
    background-color: #4a8f83;
    box-shadow: 3px3px8px#b1b1b1,-3px-3px8px#fff;
    font-size: 18px;

}
.link:hover {
    transform: scale(1.02);
    box-shadow: 0040px-10pxrgba(0,0,0,0.75);
}
.ticket {


    width: 600px;
    height: 400px;
    margin-left:30%;
    margin-top:10%;

    justify-content: center;
    padding: 60px35px35px35px;
    border-radius: 40px;
    background-color: #ecf0f3;
    box-shadow: 13px13px20px#cbced1,
-13px-13px20px#fff;
}
.row {
display:flex;
    flex-direction: row;
    justify-content: space-between;
    border-radius: 30px;
    margin-left: 5px;
    margin-right: 5px;
}
.ticket:hover {
    transform: scale(1.02);
    box-shadow: 0040px-10pxrgba(0,0,0,0.75);
}
.row:hover {
    transform: scale(1.02);
    box-shadow: 0040px-10pxrgba(0,0,0,0.75);
}
a:hover {
    transform: scale(1.02);
    outline: none;
text-underline: none;
    outline-color: #04AA6D;
    box-shadow: 0040px-10pxrgba(0,0,0,0.75);
}
```

```
a {
   display: flex;
   text-decoration: none;
   outline: none;
   border: none;
   cursor: pointer;
   width: 100%;
   height: 60px;
   border-radius: 30px;
   font-weight: 700;
   font-family: "Lato",sans-serif;
color: #fff;
   align-items: center;
   justify-content: center;
   text-align: center;
   background-color: #4a8f83;
   box-shadow: 3px3px8px#b1b1b1,-3px-3px8px#fff;

}
h1 {
   display: flex;

   text-decoration: none;
   outline: none;
   border: none;
   cursor: pointer;
   width: 100%;
   height: 60px;
   border-radius: 30px;
   font-weight: 700;
   font-family: "Lato",sans-serif;
color: #fff;
   align-items: center;
   justify-content: center;
   text-align: center;
   background-color: #4a8f83;
   box-shadow: 3px3px8px#b1b1b1,-3px-3px8px#fff;
   font-size: 18px;

}
h1:hover {
   transform: scale(1.02);
   box-shadow: 0040px-10pxrgba(0,0,0,0.75);
}
.loginBox {
   width: 400px;
   height: 700px;
   padding: 60px35px35px35px;
   border-radius: 40px;
   background-color: #ecf0f3;
   box-shadow: 13px13px20px#cbced1,
-13px-13px20px#fff;

}
.logo {
   background: url(https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQN59jZY3e-
DGR0qDhobXi5vhnlVUv1-qw8aQ&usqp=CAU);
   width: 100px;
   height: 100px;
   border-radius: 50%;
   margin: 0auto;
   box-shadow: 0px0px2px#5f5f5f,
0px0px0px5px#ecf0f3,
8px8px15px#a7aaaf,
-8px-8px15px#fff;

}
.title {
   text-align: center;
   font-size: 28px;
   padding-top: 24px;
   letter-spacing: 0.5px;
}
.fields {
   width: 100%;
   padding: 75px5px5px5px;
}
.fieldsinput {
   border: none;
   outline: none;
   background: none;
   font-size: 18px;
   text-align: center;
color: #555;
   padding: 20px10px20px5px;

}
.username,
.password {
   margin-bottom: 30px;
   border-radius: 25px;
   text-decoration-color: #04AA6D;
color: #2bbefd;
   background: linear-gradient(toright,#ff416c,#2bbefd);
   box-shadow: 3px3px8px#b1b1b1,-3px-3px8px#fff;
}
::placeholder { /* Chrome, Firefox, Opera, Safari 10.1+ */
color: white;
   text-align: center;
   opacity: 1; /* Firefox */
}
.fieldssvg {
   height: 22px;
   margin: 010px-3px25px;
}
.signin-button {
   outline: none;
   border: none;
   cursor: pointer;
   width: 100%;
   height: 60px;
   border-radius: 30px;
   font-weight: 700;
   font-family: "Lato",sans-serif;
color: #fff;
   text-align: center;
   background: linear-gradient(toright,#ff416c,#2bbefd);
   box-shadow: 3px3px8px#b1b1b1,-3px-3px8px#fff;

}
a {
   display: flex;
   text-decoration: none;
   outline: none;
   border: none;
   cursor: pointer;
   width: 100%;
   height: 60px;
   border-radius: 30px;
   font-weight: 700;
   font-family: "Lato",sans-serif;
color: #fff;
   align-items: center;
   justify-content: center;
   text-align: center;
   background-color: gray;
   box-shadow: 3px3px8px#b1b1b1,-3px-3px8px#fff;

}
```

21. Login.css

```
@charset "ISO-8859-1";
* {
   box-sizing: border-box;
}
body {
   margin: 0;
   height: 100vh;
   width: 100vw;
   overflow: hidden;
   font-family: "Lato",sans-serif;
   font-weight: 700;
   display: flex;
   align-items: center;
   justify-content: center;
color: #555;
   background-color: #ecf0f3;
}
.loginBox {
   width: 400px;
   height: 700px;
   padding: 60px35px35px35px;
   border-radius: 40px;
   background-color: #ecf0f3;
   box-shadow: 13px13px20px#cbced1,
-13px-13px20px#fff;

}
.logo {
   background: url(https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQN59jZY3e-
DGR0qDhobXi5vhnlVUv1-qw8aQ&usqp=CAU);
   width: 100px;
   height: 100px;
   border-radius: 50%;
   margin: 0auto;
   box-shadow: 0px0px2px#5f5f5f,
0px0px0px5px#ecf0f3,
8px8px15px#a7aaaf,
-8px-8px15px#fff;

}
.title {
   text-align: center;
   font-size: 28px;
   padding-top: 24px;
   letter-spacing: 0.5px;
}
.fields {
   width: 100%;
   padding: 75px5px5px5px;
}
.fieldsinput {
   border: none;
   outline: none;
   background: none;
   font-size: 18px;
color: #555;
   padding: 20px10px20px5px;

}
.username,
.password {
   margin-bottom: 30px;
   border-radius: 25px;
   box-shadow: inset8px8px8px#cbced1,inset
-8px-8px8px#fff;
}
.fieldssvg {
   height: 22px;
   margin: 010px-3px25px;
}
.signin-button {
   outline: none;
   border: none;
   cursor: pointer;
   width: 100%;
   height: 60px;
   border-radius: 30px;
   font-weight: 700;
   font-family: "Lato",sans-serif;
color: #fff;
   text-align: center;
```

```
    background-color: #FD8469;
    box-shadow: 3px3px8px#b1b1b1,-3px-3px8px#fff;

}
a {
    display: flex;
    text-decoration: none;
    outline: none;
    border: none;
    cursor: pointer;
    width: 100%;
    height: 60px;
    border-radius: 30px;
    font-weight: 700;
    font-family: "Lato",sans-serif;
color: #fff;
    align-items: center;
    justify-content: center;
    text-align: center;
    background-color: gray;
    box-shadow: 3px3px8px#b1b1b1,-3px-3px8px#fff;

}
```

22. SignUp.css

```
@charset "ISO-8859-1";
* {
    box-sizing: border-box;
}
body {
    margin: 0;
    height: 100vh;
    width: 100vw;
    overflow: hidden;
    font-family: "Lato",sans-serif;
    font-weight: 700;
    display: flex;
```

```
   align-items: center;
   justify-content: center;
color: #555;
   background-color: #ecf0f3;
}
.loginBox {
   width: 400px;
   height: 900px;
   padding: 60px35px35px35px;
   border-radius: 40px;
   background-color: #ecf0f3;
   box-shadow: 13px13px20px#cbced1,
-13px-13px20px#fff;

}
.logo {
   background: url(https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQN59jZY3e-
DGR0qDhobXi5vhnlVUv1-qw8aQ&usqp=CAU);
   width: 100px;
   height: 100px;
   border-radius: 50%;
   margin: 0auto;
   box-shadow: 0px0px2px#5f5f5f,
0px0px0px5px#ecf0f3,
8px8px15px#a7aaaf,
-8px-8px15px#fff;

}
.title {
   text-align: center;
   font-size: 28px;
   padding-top: 24px;
   letter-spacing: 0.5px;
}
.fields {
   width: 100%;
   padding: 75px5px5px5px;
}
.fieldsinput {
   border: none;
   outline: none;
   background: none;
   font-size: 18px;
color: #555;
   padding: 20px10px20px5px;

}
```

```
.username,
.password {
   margin-bottom: 30px;
   border-radius: 25px;
   box-shadow: inset8px8px8px#cbced1,inset
-8px-8px8px#fff;
}
.fieldssvg {
   height: 22px;
   margin: 010px-3px25px;
}
.signin-button {
   outline: none;
   border: none;
   cursor: pointer;
   width: 100%;
   height: 60px;
   border-radius: 30px;
   font-weight: 700;
   font-family: "Lato",sans-serif;
color: #fff;
   text-align: center;
   background-color: #FD8469;
   box-shadow: 3px3px8px#b1b1b1,-3px-3px8px#fff;

}
a {
   display: flex;
   text-decoration: none;
   outline: none;
   border: none;
   cursor: pointer;
   width: 100%;
   height: 60px;
   border-radius: 30px;
   font-weight: 700;
   font-family: "Lato",sans-serif;
color: #fff;
   align-items: center;
   justify-content: center;
   text-align: center;
   background-color: gray;
   box-shadow: 3px3px8px#b1b1b1,-3px-3px8px#fff;

}
```

23. adminHome.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Title</title>
<link rel="stylesheet" type="text/css"href="/css/Home.css">
<!-- Latest compiled and minified CSS -->
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">

<!-- jQuery library -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<!-- Latest compiled JavaScript -->
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<nav>
<ul>
<li><a class ="active"href="change">Change admin password</a></li>
<li><a href="getUsers">Get All the users</a></li>
<li><a href="getProducts">Get All the Products</a></li>
<li style="float:right"><a href="purchaseHistory">Get All the Purchase records</a></li>
</ul>
</nav>
<div class="row">
<div class="card text-center">
<h2  class="card-header">Search User</h2>
<form action="searchUser">
<input class="username" type="text" name="name" placeholder="Enter name of user">
<Button class="signin-button" type="submit" value="click">Search</Button>
</form>
</div>

<div class="card text-center">
```

```
<h2  class="card-header">Add product</h2>
<form action="addProduct" method="post">
<input class="username" type="text" name="productName" placeholder="product name">
<input class="username" type="text" name="category" placeholder="category">
<input class="username" type="number" name="cost" placeholder="cost">
<Button class="signin-button" type="submit" value="click">Add Product</Button>
</form>
</div>




</div>
<div class="row">
<div class="card text-center">
<h2 class="card-header">Delete Product</h2>

<form action="delProduct" method="post">
<input class="username" type="number" name="id" placeholder="Enter Product Id">
<Button class="signin-button" type="submit" value="click">Delete Product</Button>
</form>
</div>
<div class="card text-center">
<h2 class="card-header">Update product</h2>
<form action="updateProduct" method="post">

<input class="username" type="number" name="id" placeholder="Product Id">
<input class="username" type="text" name="productName" placeholder="product name">
<input class="username" type="text" name="category" placeholder="category">
<input class="username" type="number" name="cost" placeholder="cost">
<Button class="signin-button" type="submit" value="click">Update Product</Button>
</form>
</div>
</div>



<div class="container">


<div th:if="${not #lists.isEmpty(users)}">
<h2>user list</h2>

<table class="table table-stripped">
<tr>
<th>User_Id</th>
<th>User_Email</th>
```

```
<th>Name</th>
<th>Password</th>
<th>User_Name</th>
</tr>
<tr th:each="user : ${users}">
<td th:text="${user.id}"></td>
<td th:text="${user.email}"></td>
<td th:text="${user.name}"></td>
<td th:text="${user.password}"></td>
<td th:text="${user.userName}"></td>
</tr>
</table>


</div>
</div>

<div class="container">


<div th:if="${not #lists.isEmpty(products)}">
<h2>Product List</h2>

<table class="table table-stripped">
<tr>
<th>Product_Id</th>
<th>Product_Name</th>
<th>Category</th>
<th>Cost</th>

</tr>
<tr th:each="product : ${products}">
<td th:text="${product.id}"></td>
<td th:text="${product.productName}"></td>
<td th:text="${product.category}"></td>
<td th:text="${product.cost}"></td>

</tr>
</table>


</div>
</div>



<div class="container">
```

```
<div th:if="${not #lists.isEmpty(purchaseHistory)}">
<h2>Purchase History List</h2>

<table class="table table-stripped">
<tr>
<th>id</th>
<th>category</th>
<th>product_id</th>
<th>order_id</th>
<th>cost</th>
<th>total</th>
<th>user_id</th>
<th>product_name</th>
<th>date</th>
</tr>
<tr th:each="purchaseHistories : ${purchaseHistory} ">
<td th:text="${purchaseHistories.id}"></td>
<td th:text="${purchaseHistories.category}"></td>
<td th:text="${purchaseHistories.productId}"></td>
<td th:text="${purchaseHistories.orderId}"></td>
<td th:text="${purchaseHistories.cost}"></td>
<td th:text="${purchaseHistories.total}"></td>
<td th:text="${purchaseHistories.UserId}"></td>
<td th:text="${purchaseHistories.productName}"></td>
<td th:text="${purchaseHistories.date}"></td>



</tr>
</table>


</div>
</div>

</body>
</html>
```

24. adminLogin.html

SOURCE CODE

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
<link rel="preconnect"href="https://fonts.googleapis.com">
<link rel="preconnect"href="https://fonts.gstatic.com"crossorigin>
<link href="https://fonts.googleapis.com/css2?family=Lato:wght@300&display=swap"rel="stylesheet">
<link href="/css/Login.css"rel="stylesheet" type="text/css">
</head>
<body>

<div class="loginBox">
<div class="logo"></div>
<div class="title">Login</div>
<form action="adminLogin" method="post">
<div class="fields">
<div class="username">
<svg class="svg-icon"viewBox="0 0 20 20">
<pathd="M12.075,10.812c1.358-0.853,2.242-2.507,2.242-4.037c0-2.181-1.795-4.618-4.198-
4.618S5.921,4.594,5.921,6.775c0,1.53,0.884,3.185,2.242,4.037c-3.222,0.865-5.6,3.807-
5.6,7.298c0,0.23,0.189,0.42,0.42,0.42h14.273c0.23,0,0.42-0.189,0.42-
0.42C17.676,14.619,15.297,11.677,12.075,10.812 M6.761,6.775c0-2.162,1.773-3.778,3.358-
3.778s3.359,1.616,3.359,3.778c0,2.162-1.774,3.778-3.359,3.778S6.761,8.937,6.761,6.775
M3.415,17.69c0.218-3.51,3.142-6.297,6.704-6.297c3.562,0,6.486,2.787,6.705,6.297H3.415z"></path>
</svg>
<input class="user-input" type="email" placeholder="Enter Your Email" name="email" required>
</div>
<div class="password">
<svg class="svg-icon"viewBox="0 0 20 20">
<pathd="M17.308,7.564h-1.993c0-2.929-2.385-5.314-5.314-5.314S4.686,4.635,4.686,7.564H2.693c-
0.244,0-0.443,0.2-0.443,0.443v9.3c0,0.243,0.199,0.442,0.443,0.442h14.615c0.243,0,0.442-0.199,0.442-
0.442v-9.3C17.75,7.764,17.551,7.564,17.308,7.564
M10,3.136c2.442,0,4.43,1.986,4.43,4.428H5.571C5.571,5.122,7.558,3.136,10,3.136
M16.865,16.864H3.136V8.45h13.729V16.864z M10,10.664c-0.854,0-1.55,0.696-
1.55,1.551c0,0.699,0.467,1.292,1.107,1.485v0.95c0,0.243,0.2,0.442,0.443,0.442s0.443-0.199,0.443-
0.442V13.7c0.64-0.193,1.106-0.786,1.106-1.485C11.55,11.36,10.854,10.664,10,10.664 M10,12.878c-
0.366,0-0.664-0.298-0.664-0.663c0-0.366,0.298-0.665,0.664-
0.665c0.365,0,0.664,0.299,0.664,0.665C10.664,12.58,10.365,12.878,10,12.878"></path>
</svg>
<input class="user-input" type="password" placeholder="Enter Your password" name="password"
required>
</div>
<div class="signin-button">
<input class="user-input" type="submit" value="Login">
</div>
</div>
```

```
</form>
<a href="change">Change Password</a>

</div>
</body>
</html>
```

adminNotFound.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Title</title>
</head>
<body>
Admin not found
</body>
</html>
```

changeAdminPassword.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
<link rel="preconnect"href="https://fonts.googleapis.com">
<link rel="preconnect"href="https://fonts.gstatic.com"crossorigin>
<link href="https://fonts.googleapis.com/css2?family=Lato:wght@300&display=swap"rel="stylesheet">
<link href="/css/SignUp.css"rel="stylesheet" type="text/css">
</head>
<body>

<div class="loginBox">
<div class="logo"></div>
<div class="title">Change Password</div>
<form action="changePassword" method="post">
```

```
<div class="fields">
<div class="username">
<svg class="svg-icon"viewBox="0 0 20 20">
<pathd="M12.075,10.812c1.358-0.853,2.242-2.507,2.242-4.037c0-2.181-1.795-4.618-4.198-
4.618S5.921,4.594,5.921,6.775c0,1.53,0.884,3.185,2.242,4.037c-3.222,0.865-5.6,3.807-
5.6,7.298c0,0.23,0.189,0.42,0.42,0.42h14.273c0.23,0,0.42-0.189,0.42-
0.42C17.676,14.619,15.297,11.677,12.075,10.812 M6.761,6.775c0-2.162,1.773-3.778,3.358-
3.778s3.359,1.616,3.359,3.778c0,2.162-1.774,3.778-3.359,3.778S6.761,8.937,6.761,6.775
M3.415,17.69c0.218-3.51,3.142-6.297,6.704-6.297c3.562,0,6.486,2.787,6.705,6.297H3.415z"></path>
</svg>
<input class="user-input" type="email" placeholder="Enter Your Email Id" name="email" required>
</div>
<div class="password">
<svg class="svg-icon"viewBox="0 0 20 20">
<pathd="M17.308,7.564h-1.993c0-2.929-2.385-5.314-5.314-5.314S4.686,4.635,4.686,7.564H2.693c-
0.244,0-0.443,0.2-0.443,0.443v9.3c0,0.243,0.199,0.442,0.443,0.442h14.615c0.243,0,0.442-0.199,0.442-
0.442v-9.3C17.75,7.764,17.551,7.564,17.308,7.564
M10,3.136c2.442,0,4.43,1.986,4.43,4.428H5.571C5.571,5.122,7.558,3.136,10,3.136
M16.865,16.864H3.136V8.45h13.729V16.864z M10,10.664c-0.854,0-1.55,0.696-
1.55,1.551c0,0.699,0.467,1.292,1.107,1.485v0.95c0,0.243,0.2,0.442,0.443,0.442s0.443-0.199,0.443-
0.442V13.7c0.64-0.193,1.106-0.786,1.106-1.485C11.55,11.36,10.854,10.664,10,10.664 M10,12.878c-
0.366,0-0.664-0.298-0.664-0.663c0-0.366,0.298-0.665,0.664-
0.665c0.365,0,0.664,0.299,0.664,0.665C10.664,12.58,10.365,12.878,10,12.878"></path>
</svg>
<input class="user-input" type="password" placeholder="Enter Your Old Password"
name="oldPassword" required>
</div>
<div class="password">
<svg class="svg-icon"viewBox="0 0 20 20">
<pathd="M17.308,7.564h-1.993c0-2.929-2.385-5.314-5.314-5.314S4.686,4.635,4.686,7.564H2.693c-
0.244,0-0.443,0.2-0.443,0.443v9.3c0,0.243,0.199,0.442,0.443,0.442h14.615c0.243,0,0.442-0.199,0.442-
0.442v-9.3C17.75,7.764,17.551,7.564,17.308,7.564
M10,3.136c2.442,0,4.43,1.986,4.43,4.428H5.571C5.571,5.122,7.558,3.136,10,3.136
M16.865,16.864H3.136V8.45h13.729V16.864z M10,10.664c-0.854,0-1.55,0.696-
1.55,1.551c0,0.699,0.467,1.292,1.107,1.485v0.95c0,0.243,0.2,0.442,0.443,0.442s0.443-0.199,0.443-
0.442V13.7c0.64-0.193,1.106-0.786,1.106-1.485C11.55,11.36,10.854,10.664,10,10.664 M10,12.878c-
0.366,0-0.664-0.298-0.664-0.663c0-0.366,0.298-0.665,0.664-
0.665c0.365,0,0.664,0.299,0.664,0.665C10.664,12.58,10.365,12.878,10,12.878"></path>
</svg>
<input class="user-input" type="password" placeholder="Enter Your new password"
name="newPassword" required>
</div>
<div class="signin-button">
<input class="user-input" type="submit" value="Change Password">
</div>
</div>
</form>
```

```
<a href="">Login</a>

</div>
</body>
</html>
```

25. userHome.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>User Home</title>
<link rel="stylesheet" type="text/css"href="/css/Home.css">
<!-- Latest compiled and minified CSS -->
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">

<!-- jQuery library -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<!-- Latest compiled JavaScript -->
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<nav>
<ul>
<li><a class ="active"href="add">Get All the Products</a></li>
<li><a th:text="${price}"></a></li>
<li><a href="#">Dashboard</a></li>
<li style="float:right"><a class="active"href="#">About</a></li>
</ul>
</nav>

<main class="dashboard">
<div class="container">


<div th:if="${not #lists.isEmpty(products)}">
<h2>Product List</h2>

<table class="table">
```

```
<thead>
<tr class="table-info">
<th scope="col">Product_Id</th>
<th scope="col">Product_Name</th>
<th scope="col">Category</th>
<th scope="col">Cost</th>
</tr>
</thead>
<tbody>
<tr  class="table-info"th:each="product : ${products}">
<form action="addProducts" method="post">

<th scope="row"th:text="${product.id}"></th>
<td  th:text="${product.productName}"></td>
<td  th:text="${product.category}"></td>
<td  th:text="${product.cost}"></td>
<td>
<input type="hidden"th:value="${product.id}" name="id"/>
<button type="submit"  class="btnbtn-info btn-rounded" name="action" value="order">order</button>
</td>
</form>
</tr>
</table>


</div>
</div>
</main>
</body>
</html>
```

26. userLogin.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
<link rel="preconnect"href="https://fonts.googleapis.com">
<link rel="preconnect"href="https://fonts.gstatic.com"crossorigin>
<link href="https://fonts.googleapis.com/css2?family=Lato:wght@300&display=swap"rel="stylesheet">
<link href="/css/Login.css"rel="stylesheet" type="text/css">
```

```
</head>
<body>

<div class="loginBox">
<div class="logo"></div>
<div class="title">Login</div>
<form action="userLogin" method="post">
<div class="fields">
<div class="username">
<svg class="svg-icon"viewBox="0 0 20 20">
<pathd="M12.075,10.812c1.358-0.853,2.242-2.507,2.242-4.037c0-2.181-1.795-4.618-4.198-
4.618S5.921,4.594,5.921,6.775c0,1.53,0.884,3.185,2.242,4.037c-3.222,0.865-5.6,3.807-
5.6,7.298c0,0.23,0.189,0.42,0.42,0.42h14.273c0.23,0,0.42-0.189,0.42-
0.42C17.676,14.619,15.297,11.677,12.075,10.812 M6.761,6.775c0-2.162,1.773-3.778,3.358-
3.778s3.359,1.616,3.359,3.778c0,2.162-1.774,3.778-3.359,3.778S6.761,8.937,6.761,6.775
M3.415,17.69c0.218-3.51,3.142-6.297,6.704-6.297c3.562,0,6.486,2.787,6.705,6.297H3.415z"></path>
</svg>
<input class="user-input" type="email" placeholder="Enter Your Email" name="email" required>
</div>
<div class="password">
<svg class="svg-icon"viewBox="0 0 20 20">
<pathd="M17.308,7.564h-1.993c0-2.929-2.385-5.314-5.314-5.314S4.686,4.635,4.686,7.564H2.693c-
0.244,0-0.443,0.2-0.443,0.443v9.3c0,0.243,0.199,0.442,0.443,0.442h14.615c0.243,0,0.442-0.199,0.442-
0.442v-9.3C17.75,7.764,17.551,7.564,17.308,7.564
M10,3.136c2.442,0,4.43,1.986,4.43,4.428H5.571C5.571,5.122,7.558,3.136,10,3.136
M16.865,16.864H3.136V8.45h13.729V16.864z M10,10.664c-0.854,0-1.55,0.696-
1.55,1.551c0,0.699,0.467,1.292,1.107,1.485v0.95c0,0.243,0.2,0.442,0.443,0.442s0.443-0.199,0.443-
0.442V13.7c0.64-0.193,1.106-0.786,1.106-1.485C11.55,11.36,10.854,10.664,10,10.664 M10,12.878c-
0.366,0-0.664-0.298-0.664-0.663c0-0.366,0.298-0.665,0.664-
0.665c0.365,0,0.664,0.299,0.664,0.665C10.664,12.58,10.365,12.878,10,12.878"></path>
</svg>
<input class="user-input" type="password" placeholder="Enter Your password" name="password"
required>
</div>
<div class="signin-button">
<input class="user-input" type="submit" value="Login">
</div>
</div>
</form>
<a href="signup">SignUp</a>

</div>
</body>
</html>
```

27. userNotFound.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Title</title>
</head>
<body>
if new user create account first<a href="userSignUp.html"></a>
Try logging in again<a href="userLogin.html"></a>
</body>
</html>
```

28. UserOrder.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Sporty shoes</title>
</head>
<body>
        <form action="UserSignUp">

        <h1>thankyou for order product</h1>
        <input type ="submit" value="relogin">

        </form>
</body>
</html>
```

29. userSignup.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
<link rel="preconnect"href="https://fonts.googleapis.com">
<link rel="preconnect"href="https://fonts.gstatic.com"crossorigin>
<link href="https://fonts.googleapis.com/css2?family=Lato:wght@300&display=swap"rel="stylesheet">
<link href="/css/SignUp.css"rel="stylesheet" type="text/css">
</head>
<body>

<div class="loginBox">
<div class="logo"></div>
<div class="title">SignUp</div>
<form action="UserSignUp" method="post">
<div class="fields">
<div class="username">
<svg class="svg-icon"viewBox="0 0 20 20">
<pathd="M12.075,10.812c1.358-0.853,2.242-2.507,2.242-4.037c0-2.181-1.795-4.618-4.198-
4.618S5.921,4.594,5.921,6.775c0,1.53,0.884,3.185,2.242,4.037c-3.222,0.865-5.6,3.807-
5.6,7.298c0,0.23,0.189,0.42,0.42,0.42h14.273c0.23,0,0.42-0.189,0.42-
0.42C17.676,14.619,15.297,11.677,12.075,10.812 M6.761,6.775c0-2.162,1.773-3.778,3.358-
3.778s3.359,1.616,3.359,3.778c0,2.162-1.774,3.778-3.359,3.778S6.761,8.937,6.761,6.775
M3.415,17.69c0.218-3.51,3.142-6.297,6.704-6.297c3.562,0,6.486,2.787,6.705,6.297H3.415z"></path>
</svg>
<input class="user-input" type="text" placeholder="Choose Your UserName" name="userName"
required>
</div>
<div class="username">
<svg class="svg-icon"viewBox="0 0 20 20">
<pathd="M12.075,10.812c1.358-0.853,2.242-2.507,2.242-4.037c0-2.181-1.795-4.618-4.198-
4.618S5.921,4.594,5.921,6.775c0,1.53,0.884,3.185,2.242,4.037c-3.222,0.865-5.6,3.807-
5.6,7.298c0,0.23,0.189,0.42,0.42,0.42h14.273c0.23,0,0.42-0.189,0.42-
0.42C17.676,14.619,15.297,11.677,12.075,10.812 M6.761,6.775c0-2.162,1.773-3.778,3.358-
3.778s3.359,1.616,3.359,3.778c0,2.162-1.774,3.778-3.359,3.778S6.761,8.937,6.761,6.775
M3.415,17.69c0.218-3.51,3.142-6.297,6.704-6.297c3.562,0,6.486,2.787,6.705,6.297H3.415z"></path>
</svg>
<input class="user-input" type="email" placeholder="Enter Your email" name="email" required>
</div>
<div class="password">
<svg class="svg-icon"viewBox="0 0 20 20">
<pathd="M17.308,7.564h-1.993c0-2.929-2.385-5.314-5.314-5.314S4.686,4.635,4.686,7.564H2.693c-
0.244,0-0.443,0.2-0.443,0.443v9.3c0,0.243,0.199,0.442,0.443,0.442h14.615c0.243,0,0.442-0.199,0.442-
0.442v-9.3C17.75,7.764,17.551,7.564,17.308,7.564
```

```
M10,3.136c2.442,0,4.43,1.986,4.43,4.428H5.571C5.571,5.122,7.558,3.136,10,3.136
M16.865,16.864H3.136V8.45h13.729V16.864z M10,10.664c-0.854,0-1.55,0.696-
1.55,1.551c0,0.699,0.467,1.292,1.107,1.485v0.95c0,0.243,0.2,0.442,0.443,0.442s0.443-0.199,0.443-
0.442V13.7c0.64-0.193,1.106-0.786,1.106-1.485C11.55,11.36,10.854,10.664,10,10.664 M10,12.878c-
0.366,0-0.664-0.298-0.664-0.663c0-0.366,0.298-0.665,0.664-
0.665c0.365,0,0.664,0.299,0.664,0.665C10.664,12.58,10.365,12.878,10,12.878"></path>
</svg>
<input class="user-input" type="text" placeholder="Enter Your name" name="name" required>
</div>
<div class="password">
<svg class="svg-icon"viewBox="0 0 20 20">
<pathd="M17.308,7.564h-1.993c0-2.929-2.385-5.314-5.314-5.314S4.686,4.635,4.686,7.564H2.693c-
0.244,0-0.443,0.2-0.443,0.443v9.3c0,0.243,0.199,0.442,0.443,0.442h14.615c0.243,0,0.442-0.199,0.442-
0.442v-9.3C17.75,7.764,17.551,7.564,17.308,7.564
M10,3.136c2.442,0,4.43,1.986,4.43,4.428H5.571C5.571,5.122,7.558,3.136,10,3.136
M16.865,16.864H3.136V8.45h13.729V16.864z M10,10.664c-0.854,0-1.55,0.696-
1.55,1.551c0,0.699,0.467,1.292,1.107,1.485v0.95c0,0.243,0.2,0.442,0.443,0.442s0.443-0.199,0.443-
0.442V13.7c0.64-0.193,1.106-0.786,1.106-1.485C11.55,11.36,10.854,10.664,10,10.664 M10,12.878c-
0.366,0-0.664-0.298-0.664-0.663c0-0.366,0.298-0.665,0.664-
0.665c0.365,0,0.664,0.299,0.664,0.665C10.664,12.58,10.365,12.878,10,12.878"></path>
</svg>
<input class="user-input" type="password" placeholder="Enter Your password" name="password"
required>
</div>
<div class="signin-button">
<input class="user-input" type="submit" value="Sign Up">
</div>
</div>
</form>
<a href="">Login</a>

</div>
</body>
</html>
```

30. application.properties

```
spring.jpa.defer-datasource-initialization=true
#db connection
spring.jpa.hibernate.ddl-auto=update
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.datasource.url=jdbc:mysql://localhost:3306/sportyshoesdbs
spring.datasource.username=root
spring.datasource.password=Ravi@0525

#showquerys
spring.jpa.show-sql=true
spring.jpa.properties.hibernate.format_sql=true
logging.level.org.hibernate.type=trace
```

31. Data.sql

```
# insertintouser_order(id, total) VALUES (3,100);
# insertintouser_order(id, total) VALUES (4,500);
# insertintoproduct(id, product_name) VALUES (4,'nam');
# insertintoproduct(id, product_name) values (5,'kara');
# insertintoproduct(id, product_name) values (6,'yara');
insertintoorder_product(product_id, order_id) VALUES (3,4);
insertintoorder_product(product_id, order_id) values (3,4);
insertintoorder_product(product_id, order_id) values (4,3);
insertintoorder_product(product_id, order_id) values (4,3);
```

32. AdminRepoTest.java

```
package com.example.datamodel;

import com.example.datamodel.entity.UserOrder;
import com.example.datamodel.repository.AdminRepo;
import com.example.datamodel.repository.UserOrderRepo;
import org.junit.jupiter.api.Test;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.context.SpringBootTest;

import javax.persistence.EntityManager;
import javax.transaction.Transactional;
import java.util.ArrayList;
import java.util.List;

@SpringBootTest
public class AdminRepoTest {


   private Logger log = LoggerFactory.getLogger(this.getClass());

   @Autowired
EntityManagerem;

   @Autowired
AdminRepoadminRepo;

   @Autowired
   private UserOrderRepouserOrderRepo;

   @Test
   @Transactional
   public void filterByDateAndCategoryTest() {
      List<UserOrder> orders = userOrderRepo.getAllOrders();
      List<List>ordersWithProducts = new ArrayList<>();
for(Long i = 1L; i<= orders.size(); i++) {
UserOrderuserOrder = em.find(UserOrder.class,i);
ordersWithProducts.add(userOrder.getProducts());
      }
log.info("here you go look at this -> {}",ordersWithProducts);

   }
}
```

33. DataModelApplicationTest.java

```
package com.example.datamodel;

import org.junit.jupiter.api.Test;
import org.springframework.boot.test.context.SpringBootTest;

@SpringBootTest
```

```
class DataModelApplicationTests {

    @Test
    void contextLoads() {
    }

}
```

34. PurchaseReports.java

```
package com.example.datamodel;

import com.example.datamodel.entity.Product;
import com.example.datamodel.entity.PurchaseHistory;
import com.example.datamodel.entity.UserOrder;
import com.example.datamodel.repository.PurchaseHistoryRepo;
import org.junit.jupiter.api.Test;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.context.SpringBootTest;
import org.springframework.test.annotation.DirtiesContext;

import javax.persistence.EntityManager;
import javax.persistence.Query;
import javax.persistence.TypedQuery;
import javax.transaction.Transactional;
import java.util.List;

@SpringBootTest
public class PurchaseReports {

    @Autowired
EntityManagerem;

    @Autowired
    private PurchaseHistoryRepopurchaseHistoryRepo;

    private Logger logger = LoggerFactory.getLogger(this.getClass());
```

```
   @Test
   @Transactional
   @DirtiesContext
   void testPurchaseRepoQuery() {
      Query q = em.createQuery("select p,uo from Product p JOIN p.userOrdersuo order by
p.categorydesc");
      List<Object[]>resultList = q.getResultList();
UserOrderuserOrder = null;
      Product product = null;
for(Object[] result:resultList) {
         product = (Product) result[0];
userOrder = (UserOrder) result[1];


//          logger.info("product -> {}",product);

      }
      logger.info("userorder->{}{}",userOrder,product.getCategory());

   }

   @Test
   @Transactional
   @DirtiesContext
   void testGetPurchaseHistory() {

TypedQuery<PurchaseHistory> query = (TypedQuery<PurchaseHistory>)
em.createNativeQuery("SELECT * FROM datamodel.purchase_history order by category and date
desc;",PurchaseHistory.class);
      List<PurchaseHistory> result = query.getResultList();
logger.info("results -> {}",result);
   }

}
```

35. StudentRepoTest.java

```
package com.example.datamodel;

import com.example.datamodel.entity.Product;
import com.example.datamodel.entity.UserOrder;
import org.junit.jupiter.api.Test;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.context.SpringBootTest;

import javax.persistence.EntityManager;
import javax.transaction.Transactional;

@SpringBootTest
public class StudentRepoTest {

  @Autowired
EntityManagerem;

  private Logger log = LoggerFactory.getLogger(this.getClass());

  @Test
  @Transactional
  void retriveProductandOrders() {
    Product product = em.find(Product.class,3L);
log.info("products -> {}",product);
log.info("product with order -> {}",product.getUserOrders());

UserOrderuserOrder = em.find(UserOrder.class,4L);
log.info("orders -> {}",userOrder);
log.info("order.info ->{}",userOrder.getProducts());
  }

}
```

36. UserOrderRepoTest.java

```
package com.example.datamodel;

import com.example.datamodel.entity.UserOrder;
import com.example.datamodel.repository.UserOrderRepo;
import com.example.datamodel.repository.UserRepo;
import org.junit.jupiter.api.Test;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.context.SpringBootTest;
import org.springframework.test.annotation.DirtiesContext;

import javax.persistence.EntityManager;
import javax.transaction.Transactional;
import java.util.Date;

@SpringBootTest
public class UserOrderRepoTest {

   @Autowired
EntityManagerem;

   @Autowired
   private UserOrderRepouserOrderRepo;

   @Autowired
   private UserRepouserRepo;


   @Test
   @Transactional
   @DirtiesContext
   public void userOrder() {
userOrderRepo.createNewOrder(1l);
   }


   @Test
   @Transactional
   @DirtiesContext
   public void userOrde() {
UserOrderuserOrder = new UserOrder(new Date());
em.persist(userOrder);
   }

   @Test
   @Transactional
   @DirtiesContext
   public void userOrdernull() {
userRepo.verifyUserToOrder(1L);
   }
   @Test
   @Transactional

   public void userOrderaddTo() {
userRepo.addUserOrderToUser(1L,newUserOrder(new Date(),1L));
   }
}
```

37. UserRepoTest.java

```
package com.example.datamodel;

import com.example.datamodel.entity.User;
import com.example.datamodel.repository.UserRepo;
import org.junit.jupiter.api.Test;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.context.SpringBootTest;
import org.springframework.test.annotation.DirtiesContext;

import javax.persistence.EntityManager;
import javax.persistence.Query;
import javax.persistence.TypedQuery;
import javax.transaction.Transactional;
import java.util.List;

@SpringBootTest
public class UserRepoTest {




   private Logger log = LoggerFactory.getLogger(this.getClass());

   @Autowired
EntityManagerem;

   @Autowired
   private UserRepouserRepo;

   @Test
   @Transactional
   public void findUserByEmailTest() {
       User user = userRepo.findUserById(1l);
log.info("Username -> {}",user.getUserName());
log.info("name -> {}", user.getName());
   }

   @Test
   @Transactional
   @DirtiesContext
   public void userUpdateTest() {
       User user = userRepo.userUpdate(1L,"saksham@123","sks123");

log.info("user updated -> {}",user);
   }

   @Test
   @Transactional
   void getUsers() {
TypedQuery<User> query = em.createNamedQuery("get_all_users",User.class);
       List<User> result =  query.getResultList();
log.info("Users List -> {}", result);
   }

   @Test
   @Transactional
   public void searchUser() {
       Query query = em.createNativeQuery("select * from User where user_id = :userId", User.class);
query.setParameter("userId",1L);
       List result = query.getResultList();
log.info("specified user -> {}", result);
   }

   @Test
   @Transactional
   public void logintest() {
userRepo.verifyUser("r@gmail,com","1");
   }
}
```