Sporty Shoes

(e-commerce portal)

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Version history	
Author	Jyothi kothapally
Date	12-nov-2021
Version	1.0
Purpose	Specific documentation

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Sportyshoes

Sportyshoes.com is an e-commerce portal that lets people purchase shoes on their website.

1. GitHub Link

This code for this project is hosted at kothapallyjyothi/sportyshoes.com (github.com).

2. Modules of the project

1. MVC model.
2. Eclipse.
3. Apache tomcat 9.0
4. Hibernate.
5. MySql-Database.
6. HTML
7. Spring boot.
8. Java configuration model.
9. Using spring framework.
10. Thymeleaf.

3.Sprint Planning and Task Completion

1	Controller Files: AdminHome.java, AdminLogin.java, AdminProduct.java, UserHome.java, UserLogin.java, UserSignup.java
2	Entity Files: Admin.java, Product.java, PurchaseHistory.java, User.java, UserOrder.java.
3	Repository Files: AdminRepo.java, ProducRepo.java, PurchaseHistoryRepo.java, UserOrderRepo.java, UserRepo.java.
4	Configuration Files: MvcConfiguration.java, ViewConfiguration.java and DataModelApplication.java.
5	css Files: Home.css, Login.css, Signup.css. HTML Files: adminHome.html, adminLogin.html, adminNotFound.html, ChangeAdminPassword.html, userHome.html, userLogin.html, userNotFound.html, userOrder.html, userSignup.html.
6	Application.properties, data.sql, AdminepoTest.java, DataModelApplicationTests.java, PurchaseReports.java, StudentRepoTest.java, UserOrderRepoTest.java, UserRepoTest.java.

Sprint:1:

- Created pom.xml.
- Created repository.
- Created Entity.

Sprint:2:

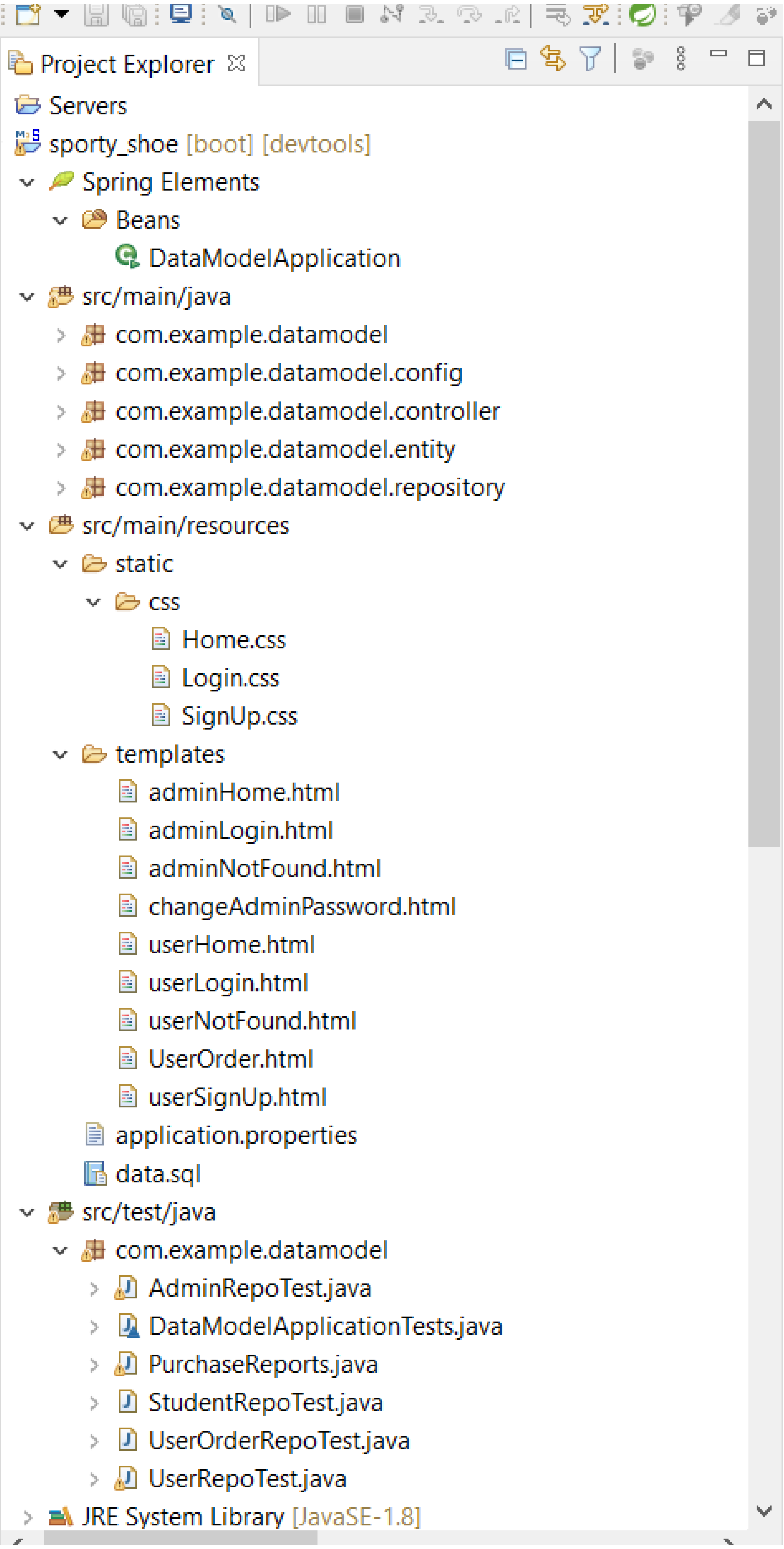
- Created Controller.
- Created main file.
- Created HTML files.

Sprint:3:

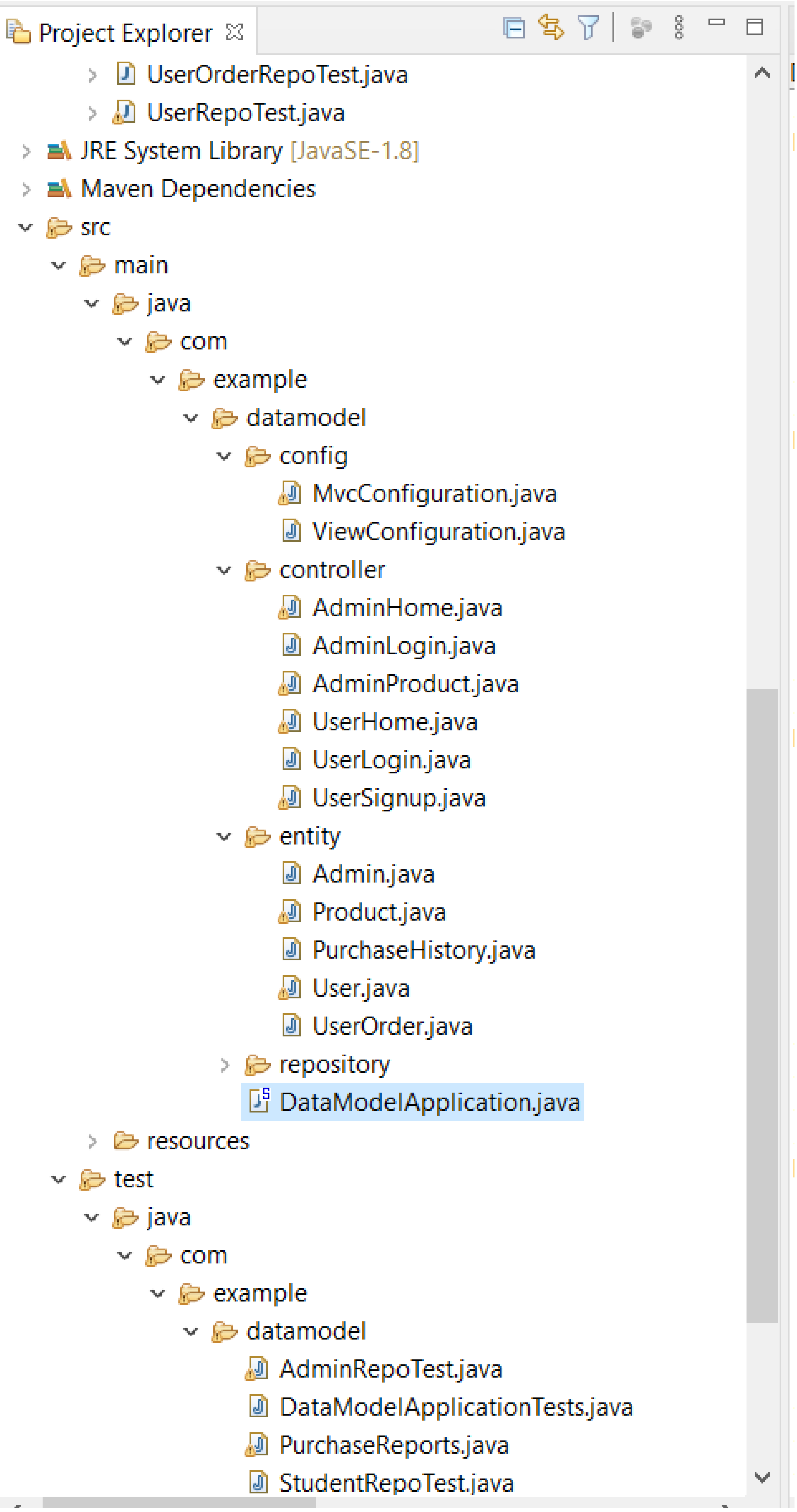
- Created property files.
- Created sportyshoesdbs database.
- Pushed the code to the repository.

Project code:

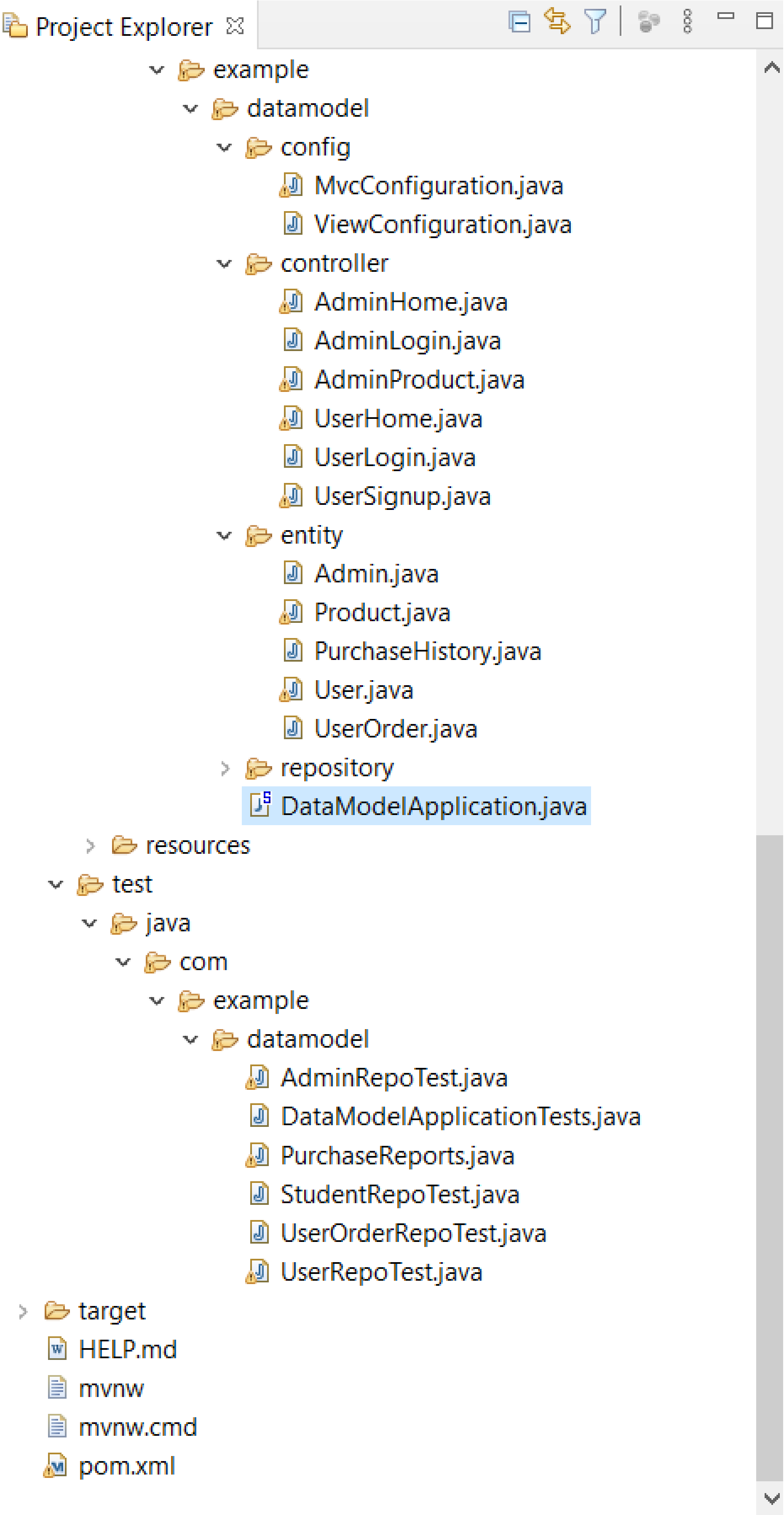
Folder Structure:



```
Servers
sporty_shoe [boot] [devtools]
  Spring Elements
    Beans
      DataModelApplication
  src/main/java
    com.example.datamodel
    com.example.datamodel.config
    com.example.datamodel.controller
    com.example.datamodel.entity
    com.example.datamodel.repository
  src/main/resources
    static
      css
        Home.css
        Login.css
        SignUp.css
    templates
      adminHome.html
      adminLogin.html
      adminNotFound.html
      changeAdminPassword.html
      userHome.html
      userLogin.html
      userNotFound.html
      UserOrder.html
      userSignUp.html
    application.properties
    data.sql
  src/test/java
    com.example.datamodel
      AdminRepoTest.java
      DataModelApplicationTests.java
      PurchaseReports.java
      StudentRepoTest.java
      UserOrderRepoTest.java
      UserRepoTest.java
  JRE System Library [JavaSE-1.8]
```



```
    > UserOrderRepoTest.java
    > UserRepoTest.java
> JRE System Library [JavaSE-1.8]
> Maven Dependencies
v src
  v main
    v java
      v com
        v example
          v datamodel
            v config
                MvcConfiguration.java
                ViewConfiguration.java
            v controller
                AdminHome.java
                AdminLogin.java
                AdminProduct.java
                UserHome.java
                UserLogin.java
                UserSignup.java
            v entity
                Admin.java
                Product.java
                PurchaseHistory.java
                User.java
                UserOrder.java
            > repository
              DataModelApplication.java
    > resources
  v test
    v java
      v com
        v example
          v datamodel
              AdminRepoTest.java
              DataModelApplicationTests.java
              PurchaseReports.java
              StudentRepoTest.java
```



```
        example
          datamodel
            config
              MvcConfiguration.java
              ViewConfiguration.java
            controller
              AdminHome.java
              AdminLogin.java
              AdminProduct.java
              UserHome.java
              UserLogin.java
              UserSignup.java
            entity
              Admin.java
              Product.java
              PurchaseHistory.java
              User.java
              UserOrder.java
            repository
            DataModelApplication.java
    resources
  test
    java
      com
        example
          datamodel
            AdminRepoTest.java
            DataModelApplicationTests.java
            PurchaseReports.java
            StudentRepoTest.java
            UserOrderRepoTest.java
            UserRepoTest.java
target
HELP.md
mvnw
mvnw.cmd
pom.xml
```

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>
```

DataModelApplication.java

```
package com.example.datamodel;




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 UserOrderRepo userOrderRepo;



  @Autowired

  private ProductRepo productRepo;



  @Autowired

   private AdminRepo adminRepo;



  @Autowired

  private UserRepo userRepo;



  @Autowired

  private PurchaseHistoryRepo purchaseHistoryRepo;



   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());

    }

}
```

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 {
}
```

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 ApplicationContext applicationContext;

    public ViewConfiguration(ApplicationContext applicationContext) {
        this.applicationContext = applicationContext;
    }

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

    }

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

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

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 AdminRepo adminRepo;

    @Autowired
    private ProductRepo productRepo;
```

```
@Autowired
private PurchaseHistoryRepo purchaseHistoryRepo;


@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";

}


}
```

AdminLogin.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 AdminRepo adminRepo;


    @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";

        }
    }


}
```

AdminProduct.java

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


import com.example.datamodel.entity.Product;
import com.example.datamodel.repository.ProductRepo;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;


import java.util.List;


@Controller
public class AdminProduct {
```

```
@Autowired
private ProductRepo productRepo;



@RequestMapping("/getProducts")
public String getProducts(Model model) {
    List<Product> products = productRepo.getAllProducts();
    model.addAttribute("products", products);
    return "adminHome";
}

@RequestMapping("/addProduct")
public String addProduct(@ModelAttribute Product product) {
    Product product1 = productRepo.addProduct(product);
    return "adminHome";
}

@RequestMapping("/delProduct")
public String delProduct(@RequestParam("id") Long id) {
    productRepo.delProduct(id);
```

```
        return "adminHome";
    }



    @RequestMapping("/updateProduct")
    public String updateProduct(@RequestParam("id") Long id, @ModelAttribute
Product product) {
        productRepo.updateProduct(id,product);
        return "adminHome";
    }

}
```

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 ProductRepo productRepo;

    @Autowired
    private UserOrderRepo userOrderRepo;
    @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();
        UserOrder userOrder = productRepo.addProductToUserOrder(id,userId);
        Long orderId = userOrder.getId();
        Long price = userOrderRepo.addTotalCostToOrder(orderId);
        model.addAttribute("order",userOrder);
        model.addAttribute("price",price);
        return "UserOrder";
    }
```

```
}
```

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 UserRepo userRepo;


    @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";
        }
    }
}
```

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;
```

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

@Controller
public class UserSignup {

    @Autowired
    private UserRepo userRepo;


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


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

Admin.java

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

import javax.persistence.*;

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


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

    private String password;

    private String adminName;

    private String email;

    public Admin(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*/
    public Admin() {

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

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

    public String getPassword() {
        return password;
    }

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

    public String getAdminName() {
        return adminName;
    }
    public void setAdminName(String adminName) {
        this.adminName = adminName;
    }

    public String getEmail() {
        return email;
    }

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

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

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(UserOrder userOrder) {
        this.userOrders.add(userOrder);
    }

    public void delUserOrders(UserOrder userOrder) {
        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 +
                '}';
    }
}
```

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 UserOrder userOrder;

public UserOrder getUserOrder() {
    return userOrder;
}



public void setUserOrder(UserOrder userOrder) {
    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 + '\'' +
                '}';
    }
}
```

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;
  }
```

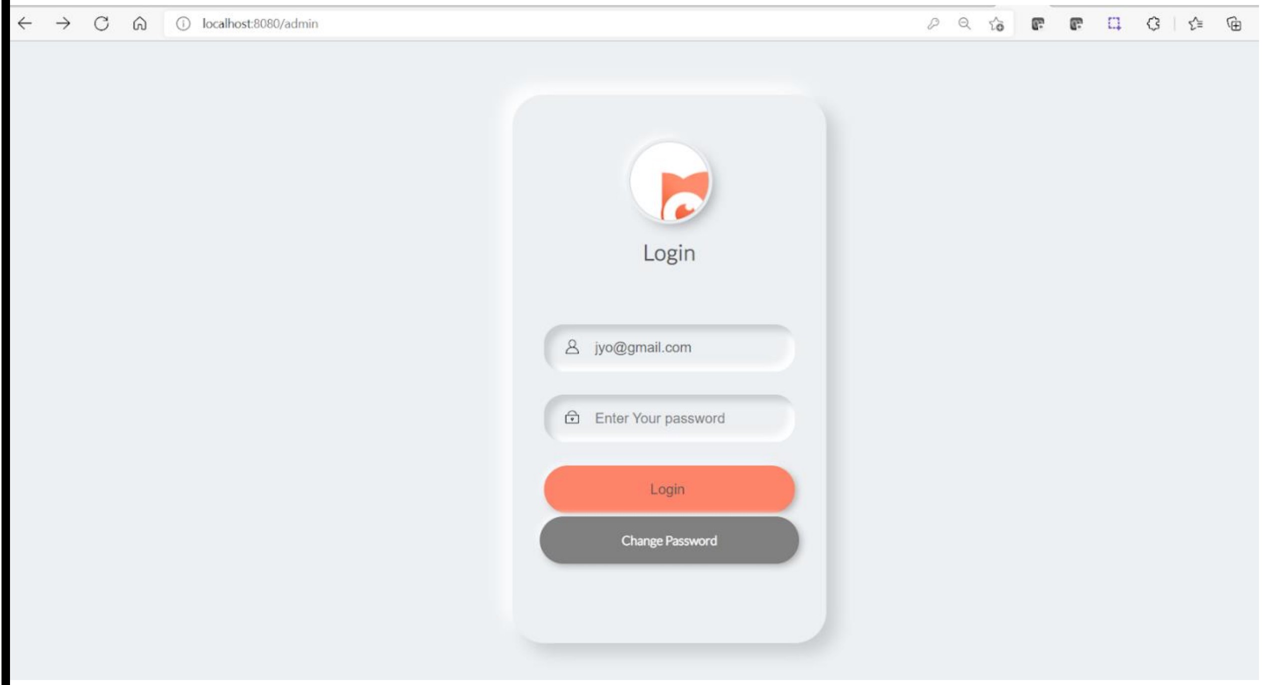
```
@OneToOne(cascade = {CascadeType.ALL})
private User user;


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;
}
```

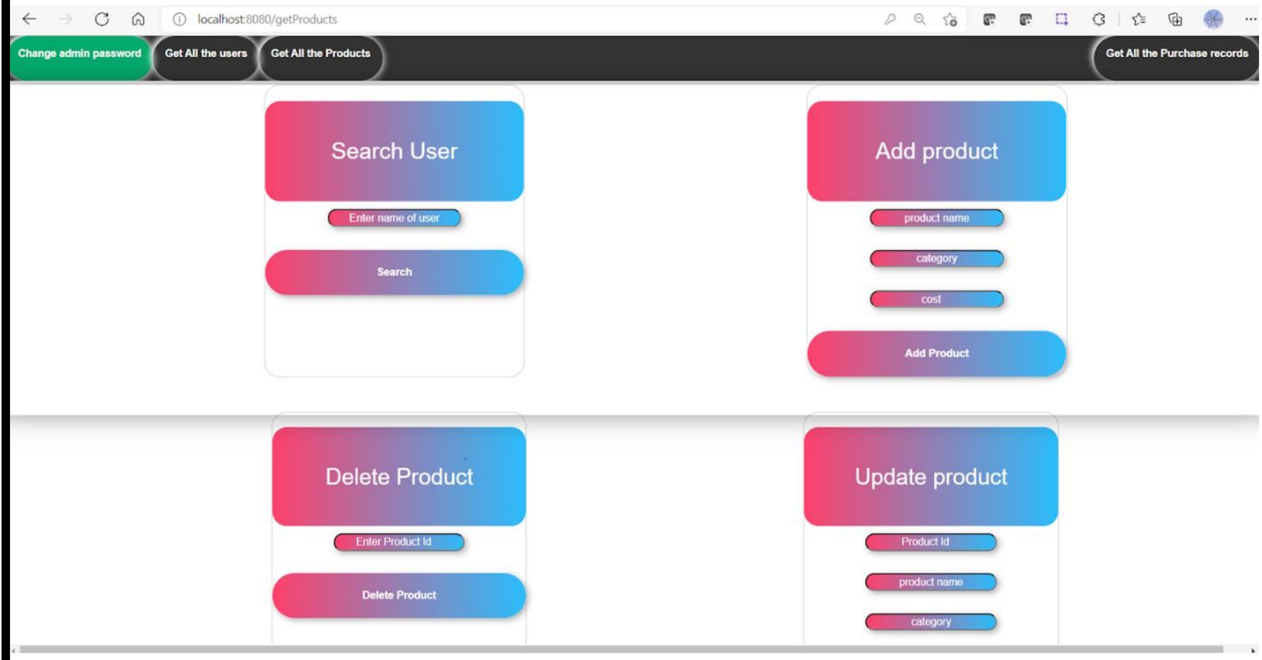
```
    public void addProducts(Product product) {
        this.products.add(product);
    }
    public void delProducts(Product product) {
        this.products.remove(product);
    }

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

Screenshots:

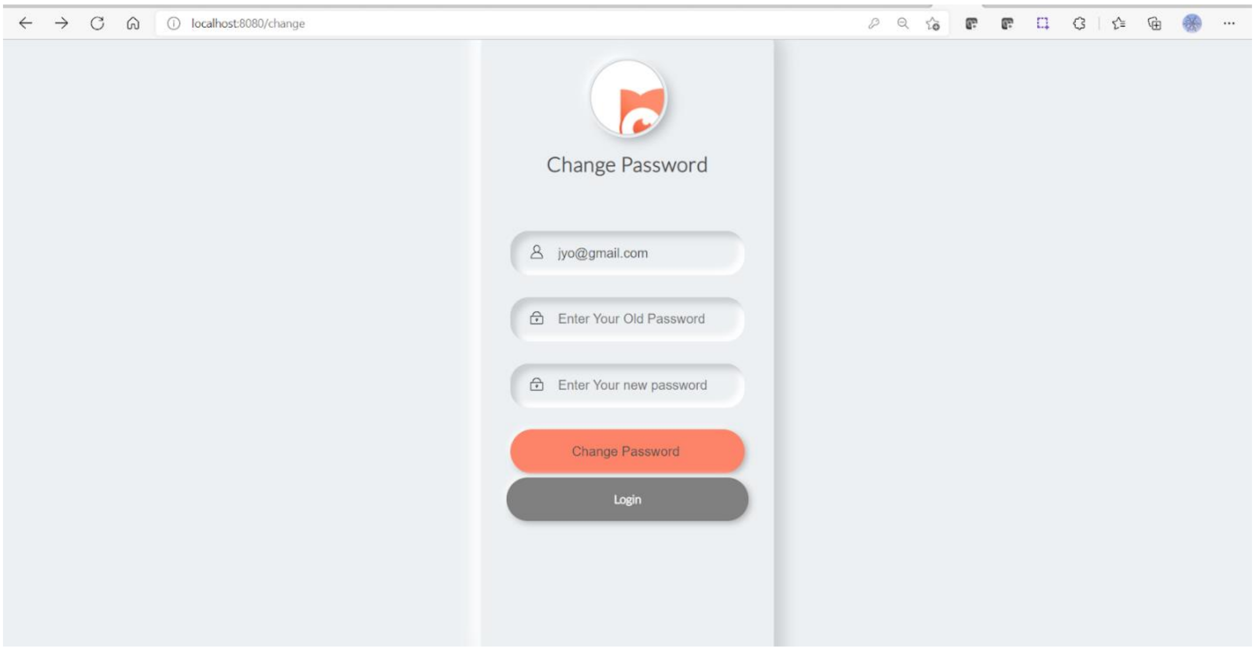
Admin Login Page:



Admin Home page:



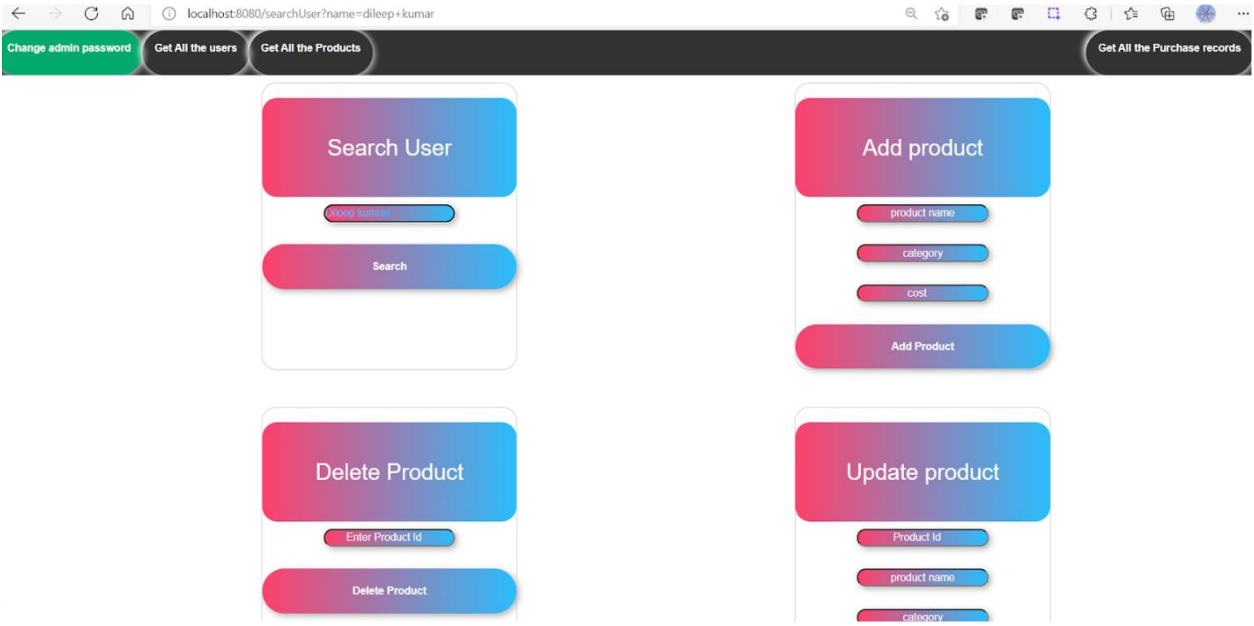
Admin Change Password:



localhost:8080/change

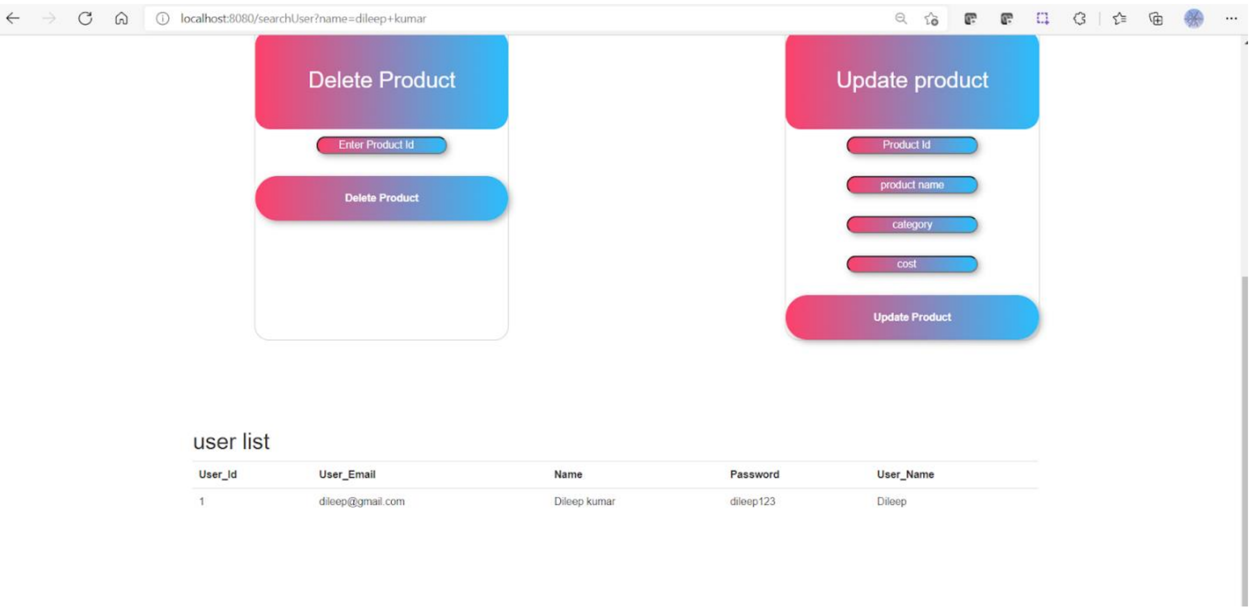
jyo@gmail.com

Search User:



localhost:8080/searchUser?name=dileep+kumar

Dileep kumar

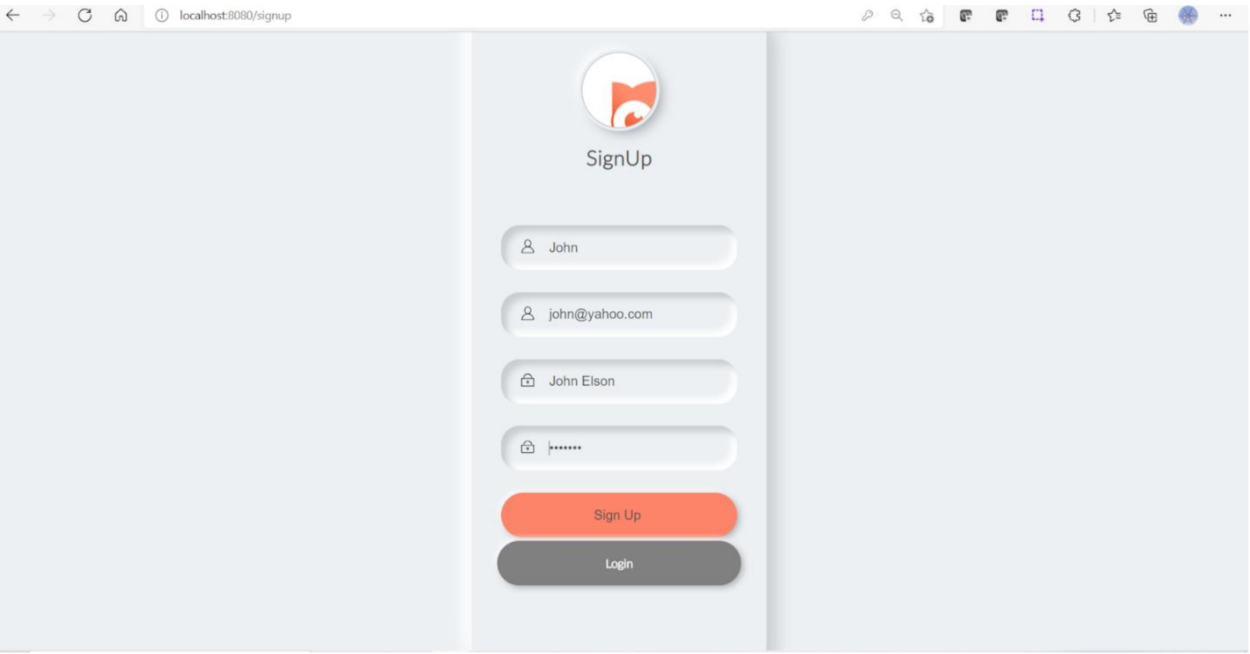


localhost:8080/searchUser?name=dileep+kumar

user list

User_Id	User_Email	Name	Password	User_Name
1	dileep@gmail.com	Dileep kumar	dileep123	Dileep

User registration:



localhost:8080/signup

SignUp

John

john@yahoo.com

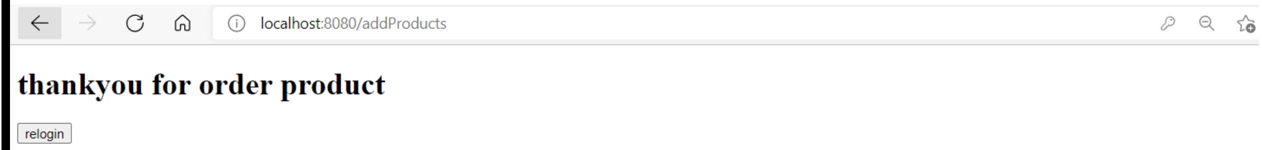
John Elson

•••••••

Dashboard Page:

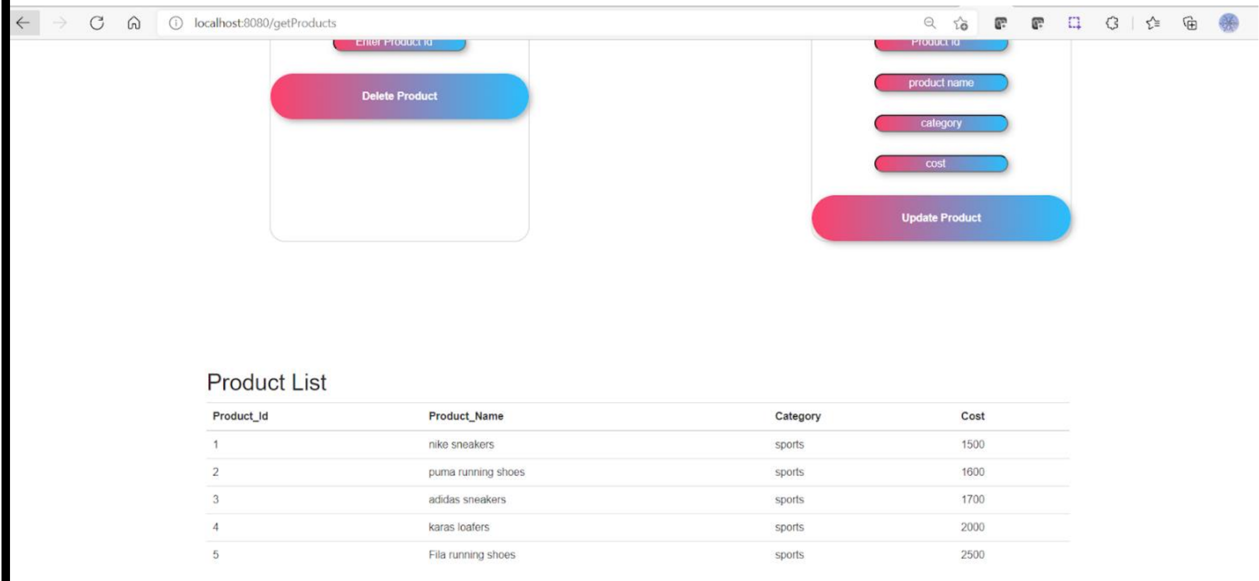
localhost:8080/userLogin

Ordering Product:


localhost:8080/addProducts

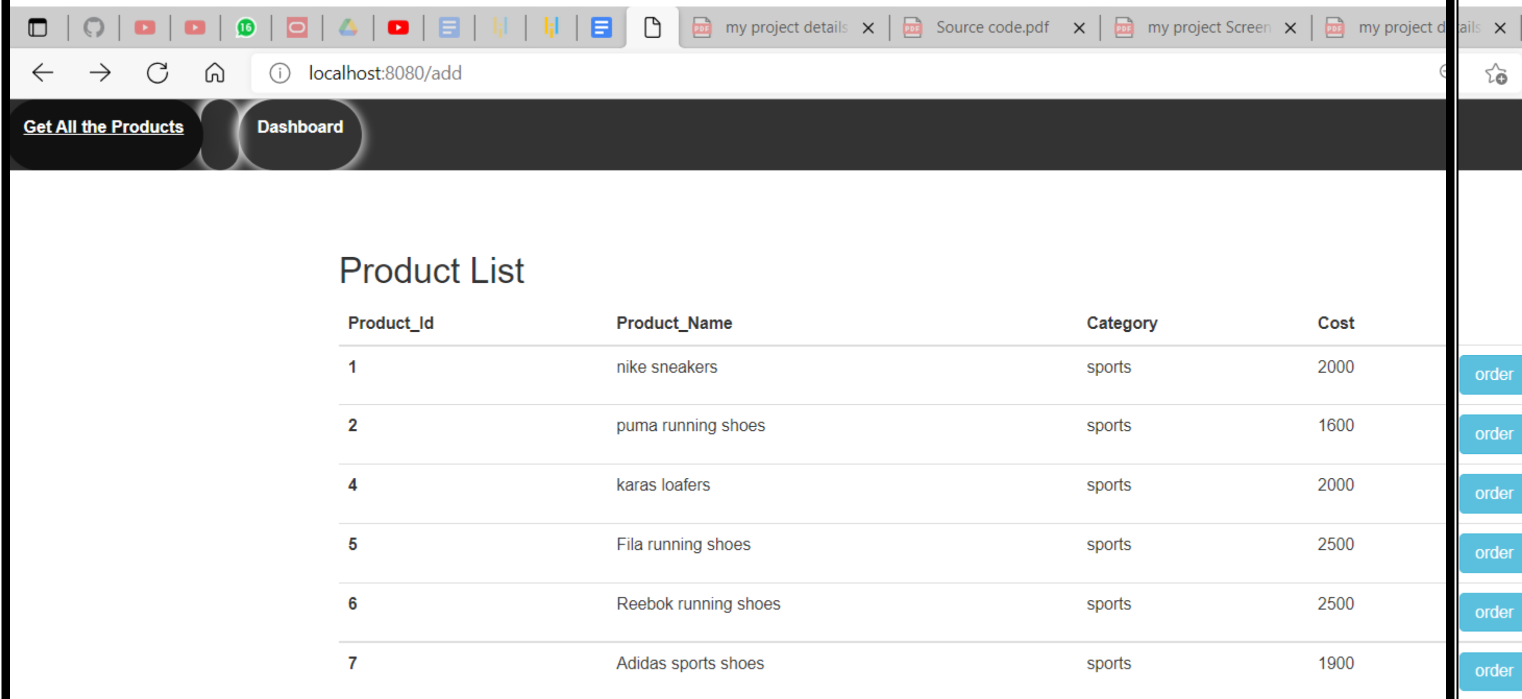
thankyou for order product

Product List



Product List

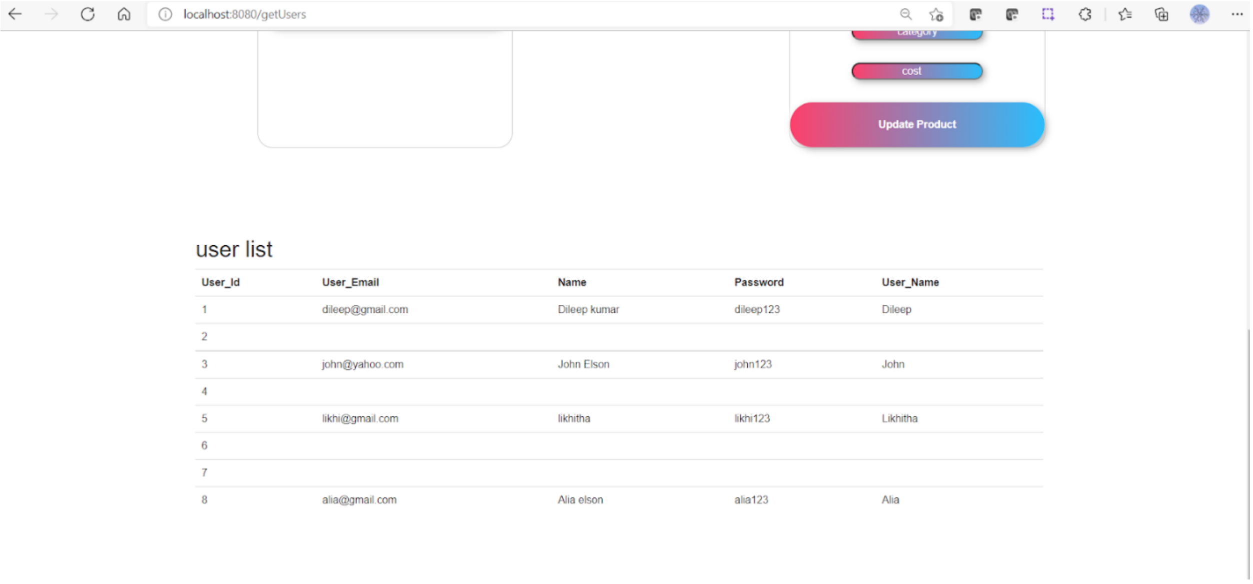
Product_Id	Product_Name	Category	Cost
1	nike sneakers	sports	1500
2	puma running shoes	sports	1600
3	adidas sneakers	sports	1700
4	karas loafers	sports	2000
5	Fila running shoes	sports	2500



Product List

Product_Id	Product_Name	Category	Cost	
1	nike sneakers	sports	2000	order
2	puma running shoes	sports	1600	order
4	karas loafers	sports	2000	order
5	Fila running shoes	sports	2500	order
6	Reebok running shoes	sports	2500	order
7	Adidas sports shoes	sports	1900	order

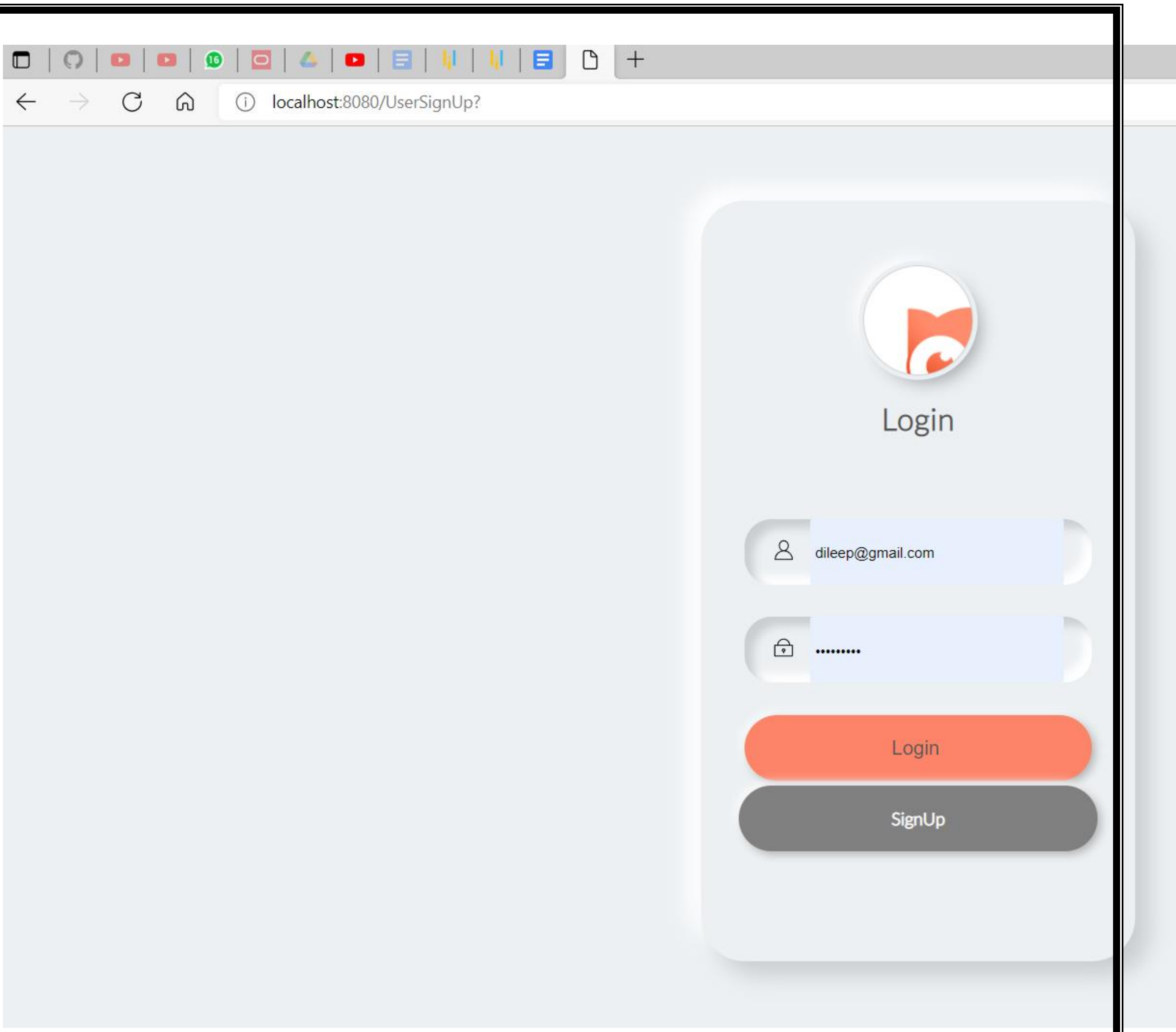
User list



user list

User_Id	User_Email	Name	Password	User_Name
1	dileep@gmail.com	Dileep kumar	dileep123	Dileep
2				
3	john@yahoo.com	John Elson	john123	John
4				
5	likhi@gmail.com	likhitha	likhi123	Likhitha
6				
7				
8	alia@gmail.com	Alia elson	alia123	Alia

ReloginPage



localhost:8080/UserSignUp?

dileep@gmail.com

•••••••••

4.Pushing the code to GitHub repository

Instructions are to be followed:

- First of all, we need account in Github to push the code in GitHub.
- Create account in GitHub.
- Create new repository.
- Open your command prompt and navigate to the folder where you have created your files.

```
cd
```

- Initialize repository using the following command:

```
git init
```

- Add all the files to your git repository using the following the command:

```
git add
```

- Commit the changes using the following command:

```
git commit . -m <commit message>
```

- Push the files to the folder you initially created using the following command:

```
git push -u origin main
```

5.technologies used

Apache tomcat server 9.0.52

MySql 8.0.26

Java 1.8

Maven dependency

Eclipse/IntelliJ

Spring Boot

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