

SOURCE CODE

1.Product Controller

```
package com.sportyShoes.controller;

import java.util.ArrayList;
import java.util.Date;
import java.util.List;
import java.util.Optional;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;
import com.sportyShoes.model.Product;
import com.sportyShoes.service.productRepository;

@RestController
@RequestMapping("/Product")
public class ProductController
{
    @Autowired
    productRepository productRepo;

    @RequestMapping("/getAll")
    public List<Product> getAllProduct()
    {
        List<Product> product = new ArrayList<Product>();
        productRepo.findAll().forEach(product::add);
        return product;
    }
}
```

```
@RequestMapping(method = RequestMethod.POST, value="/addProduct")
```

```
public String addProduct(@RequestBody Product product)
```

```
{  
    Date date = new Date();  
    product.setDate(date);  
    productRepo.save(product);  
    return "Product is added";  
}
```

```
@RequestMapping(method = RequestMethod.DELETE, value="/deleteProduct/{id}")
```

```
public String deleteProduct(@PathVariable int id)
```

```
{  
    productRepo.deleteById(id);  
    return "Product is Deleted";  
}
```

```
@RequestMapping(method = RequestMethod.PUT, value="/updateProduct/{id}")
```

```
public String updateProduct(@PathVariable int id, @RequestBody Product product)
```

```
{  
    Date date = new Date();  
    product.setDate(date);  
    product.setProductId(id);  
    productRepo.save(product);  
    return "Product is updated";  
}
```

```
@RequestMapping("/getById/{id}")
```

```
public Optional<Product> allProduct(@PathVariable int id)
```

```
{  
    return productRepo.findById(id);  
}
```

```
@RequestMapping("/getBySeason/{season}")
public List<Product> allProductBySeason(@PathVariable String season)
{
    return productRepo.findBySeason(season);
}
```

```
@RequestMapping("/getByBrand/{brand}")
public List<Product> allProductByBrand(@PathVariable String brand)
{
    return productRepo.findByBrand(brand);
}
```

```
@RequestMapping("/getByCategory/{category}")
public List<Product> allProductByCategory(@PathVariable String category)
{
    return productRepo.findByCategory(category);
}
```

```
@RequestMapping("/getByPrice/{order}")
public List<Product> allProductByPrice(@PathVariable String order)
{
    if(order.equals("Asc"))
        return productRepo.findAllByOrderByPriceAsc();
    else
        return productRepo.findAllByOrderByPriceDesc();
}
```

```
@RequestMapping("/getByColor/{color}")
public List<Product> allProductByColor(@PathVariable String color)
{
    return productRepo.findByColor(color);
}
```

```

    }

    @RequestMapping("/getLatestProductByDate")
    public List<Product> latestProductByDate()
    {
        return productRepo.findAllByOrderByDateDesc();
    }
}

```

2. User Controller

```

package com.sportyShoes.controller;

import java.util.ArrayList;
import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;
import com.sportyShoes.model.User;
import com.sportyShoes.service.userRepository;

@RestController
@RequestMapping("/User")
public class UserController
{
    @Autowired
    userRepository repo;

    @RequestMapping("/getAllUser")

```

```

public List<User> getUser()
{
    List<User> users = new ArrayList<User>();
    repo.findAll().forEach(users::add);
    return users;
}

@RequestMapping(method = RequestMethod.POST, value="/addUser")
public String addUser(@RequestBody User user)
{
    repo.save(user);
    return "User is added";
}

@RequestMapping(method = RequestMethod.PUT,
value="/editPass/{email}/{oldpass}/{newpass}")
public String editPassword(@PathVariable String email, @PathVariable String
oldpass, @PathVariable String newpass)
{
    User user = repo.findByEmail(email);
    if(user.getPassword().equals(oldpass))
        user.setPassword(newpass);
    else
        return "Password is not changed";
    repo.save(user);
    return "Password is changed";
}
}

```

3.PurchaseReport Controller

```
package com.sportyShoes.controller;
```

```
import java.util.Date;
```

```
import java.util.List;
```

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

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

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

```
import org.springframework.web.bind.annotation.RequestMethod;
```

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

```
import com.sportyShoes.model.PurchaseReport;
```

```
import com.sportyShoes.service.PurchaseReportRepository;
```

```
@RestController
```

```
@RequestMapping("/PurchaseReport")
```

```
public class PurchaseReportController
```

```
{
```

```
    @Autowired
```

```
    PurchaseReportRepository reportRepo;
```

```
    @RequestMapping(method = RequestMethod.POST, value="/addPurchaseReport")
```

```
    public String addProduct(@RequestBody PurchaseReport report)
```

```
    {
```

```
        // Date date = new Date();
```

```
        // report.setPurchasedate(date);
```

```
        reportRepo.save(report);
```

```
        return "PurchaseReport is added";
```

```
    }
```

```
    @RequestMapping("/getAllReportByCategory")
```

```
    public List<PurchaseReport> getAllReport()
```

```
    {
```

```
        return reportRepo.findAllByOrderByCategoryAsc();
```

```
    }
```

```

    @RequestMapping("/getAllReportByDate")
    public List<PurchaseReport> getAllReport2()
    {
        return reportRepo.findAllByOrderByPurchasedateAsc();
    }
}

```

4.ProductRepository

```

package com.sportyShoes.service;

import java.util.List;
import org.springframework.data.repository.CrudRepository;
import com.sportyShoes.model.Product;

public interface productRepository extends CrudRepository<Product, Integer>
{

    List<Product> findByName(String name);

    List<Product> findAllByOrderByDateDesc();

    List<Product> findAllByOrderByDateAsc();

    List<Product> findBySeason(String season);

    List<Product> findByBrand(String brand);

    List<Product> findByCategory(String category);

    List<Product> findAllByOrderByPriceAsc();
}

```

```
List<Product> findAllByOrderByCategoryAsc();

List<Product> findAllByOrderByPriceDesc();

List<Product> findByColor(String color);

List<Product> findByDate(String date);
}
```

5.UserRepository

```
package com.sportyShoes.service;

import org.springframework.data.repository.CrudRepository;

import com.sportyShoes.model.User;

public interface userRepository extends CrudRepository<User, Integer>
{
    User findByEmail(String username);
}
```

6.PurchaseReportRepository

```
package com.sportyShoes.service;

import java.util.List;

import org.springframework.data.repository.CrudRepository;

import com.sportyShoes.model.Product;
import com.sportyShoes.model.PurchaseReport;

public interface PurchaseReportRepository extends CrudRepository<PurchaseReport, Integer>
{
}
```



```
List<PurchaseReport> findAllByOrderByCategoryAsc();

List<PurchaseReport> findAllByOrderByPurchasedateAsc();

}
```

7.Product Model

```
package com.sportyShoes.model;

import java.util.Date;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.Table;

@Entity
@Table(name="product")
public class Product
{
    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    int id;
    String name;
    String season;
    String brand;
    String category;
    String price;
    String color;
    Date date;
```

```
int discount;

public Product() {
    super();
}

public int getId() {
    return id;
}

public void setProductId(int id) {
    this.id = id;
}

public String getName() {
    return name;
}

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

public String getSeason() {
    return season;
}

public void setSeason(String season) {
    this.season = season;
}

public String getBrand() {
    return brand;
}

public void setBrand(String brand) {
    this.brand = brand;
}

public String getCategory() {
    return category;
}

public void setCategory(String category) {
```

```

        this.category = category;
    }
    public String getPrice() {
        return price;
    }
    public void setPrice(String price) {
        this.price = price;
    }
    public String getColor() {
        return color;
    }
    public void setColor(String color) {
        this.color = color;
    }
    public Date getDate() {
        return date;
    }
    public void setDate(Date date) {
        this.date = date;
    }
    public int getDiscount() {
        return discount;
    }
    public void setDiscount(int discount) {
        this.discount = discount;
    }
}

```

8.User Model

```
package com.sportyShoes.model;
```

```
import javax.persistence.Entity;
```

```
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.Table;

@Entity
@Table(name="user")
public class User
{
    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    int user_id;
    String username;
    String password;
    String email;
    String phone_number;

    public User() {
        super();
    }
    public int getUserId() {
        return user_id;
    }
    public void setUserId(int user_id) {
        this.user_id = user_id;
    }
    public String getUsername() {
        return username;
    }
    public void setUsername(String username) {
        this.username = username;
    }
}
```

```

    public String getPassword() {
        return password;
    }
    public void setPassword(String password) {
        this.password = password;
    }
    public String getEmail() {
        return email;
    }
    public void setEmail(String email) {
        this.email = email;
    }
    public String getPhone_number() {
        return phone_number;
    }
    public void setPhone_number(String phone_number) {
        this.phone_number = phone_number;
    }
}

```

9.PurchaseReport Model

```
package com.sportyShoes.model;
```

```
import java.util.Date;
```

```
import javax.persistence.Entity;
```

```
import javax.persistence.GeneratedValue;
```

```
import javax.persistence.GenerationType;
```

```
import javax.persistence.Id;
```

```
import javax.persistence.Table;
```

```
@Entity
```

```
@Table(name="PurchaseReport")
public class PurchaseReport
{
    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    int purchase_id;

    String username;
    String brand;
    String color;
    Date purchasedate;
    String mobile;
    String category;

    public PurchaseReport() {
        super();
    }

    public String getCategory() {
        return category;
    }

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

    public int getPurchase_id() {
        return purchase_id;
    }
}
```

```
}
```

```
public void setPurchase_id(int purchase_id) {  
    this.purchase_id = purchase_id;  
}
```

```
public String getUsername() {  
    return username;  
}
```

```
public void setUsername(String username) {  
    this.username = username;  
}
```

```
public String getBrand() {  
    return brand;  
}
```

```
public void setBrand(String brand) {  
    this.brand = brand;  
}
```

```
public String getColor() {  
    return color;  
}
```

```
public void setColor(String color) {  
    this.color = color;  
}
```

```
public Date getPurchasedate() {  
    return purchasedate;  
}
```

```
}
```

```
public void setPurchasedate(Date purchasedate) {
```

```
    this.purchasedate = purchasedate;
```

```
}
```

```
public String getMobile() {
```

```
    return mobile;
```

```
}
```

```
public void setMobile(String mobile) {
```

```
    this.mobile = mobile;
```

```
}
```

```
}
```