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Batch	MS FSD DEC 2021 Cohort 1
Project Name	Sporty Shoes
Project Submission Date	18-05-2022

Source Code
ShoesWebApplication.java
<pre> package com.webshoe; import org.springframework.boot.SpringApplication; import org.springframework.boot.autoconfigure.SpringBootApplication; @SpringBootApplication public class ShoesWebApplication { public static void main(String[] args) { SpringApplication.run(ShoesWebApplication.class, args); } }</pre>
SportyShoesSecurityConfiguration.java
<pre> package com.webshoe.configuration; import org.springframework.context.annotation.Configuration; import org.springframework.http.HttpMethod; import org.springframework.security.config.annotation.authentication.builders.AuthenticationManagerBuilder; import org.springframework.security.config.annotation.web.builders.HttpSecurity; import org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter; @Configuration public class SportyShoesSecurityConfiguration extends WebSecurityConfigurerAdapter { @Override protected void configure(HttpSecurity http) throws Exception { http.authorizeRequests() .antMatchers(HttpMethod.GET, "/admin/**").hasRole("ADMIN") .antMatchers("/users/**")</pre>

```

        .permitAll().and().httpBasic();
        http.csrf().disable();
    }

    @Override
    protected void configure(AuthenticationManagerBuilder auth) throws Exception {

        auth.inMemoryAuthentication().withUser("admin").password("{noop}admin").roles("ADMIN");
    }
}

```

AdminController.java

```

package com.webshoe.controller;

import java.text.ParseException;
import java.util.List;
import java.util.Optional;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.RestController;

import com.webshoe.entity.Product;
import com.webshoe.entity.PurchaseReport;
import com.webshoe.entity.User;
import com.webshoe.service.ProductService;
import com.webshoe.service.PurchaseReportService;
import com.webshoe.service.UserService;

@RestController
@RequestMapping("/admin")
public class AdminController {

    @Autowired
    ProductService productService;

    @Autowired
    UserService userService;
}

```

```

@Autowired
private PurchaseReportService purchaseReportService;

@GetMapping("/products")
public ResponseEntity<List<Product>> getAllProducts() {
    List<Product> allProducts = productService.getAllProducts();
    if (allProducts.isEmpty()) {
        return new ResponseEntity<>(HttpStatus.NO_CONTENT);
    }
    ResponseEntity<List<Product>> responseEntity = new
ResponseEntity<List<Product>>(allProducts, HttpStatus.OK);
    return responseEntity;
}

@GetMapping("/products/categorize/{category}")
public ResponseEntity<List<Product>>
getAllProductsBasedOnCategory(@PathVariable("category") String category) {
    System.out.println("Category to look for -> " + category);
    List<Product> allProductsBasedOnCategory =
productService.getAllProductBasedOnCatogary(category);
    if (allProductsBasedOnCategory.isEmpty()) {
        return new ResponseEntity<>(HttpStatus.NO_CONTENT);
    }
    ResponseEntity<List<Product>> responseEntity = new
ResponseEntity<List<Product>>(allProductsBasedOnCategory,
        HttpStatus.OK);
    return responseEntity;
}

@PostMapping("/products")
public ResponseEntity<Product> addProduct(@RequestBody Product product) {
    Product temp = productService.addProduct(product);
    if (temp == null) {
        return new ResponseEntity<Product>(HttpStatus.BAD_REQUEST);
    }
    return new ResponseEntity<Product>(temp, HttpStatus.OK);
}

@GetMapping("/products/{productId}")
public ResponseEntity<Product> getProductById(@PathVariable("productId") int id) {
    Optional<Product> product = productService.getProductById(id);
    if (!product.isPresent()) {
        return new ResponseEntity<Product>(HttpStatus.NO_CONTENT);
    }

    return new ResponseEntity<Product>(product.get(), HttpStatus.OK);
}

@DeleteMapping("/products/{productId}")
public ResponseEntity<HttpStatus> deleteById(@PathVariable("productId") int id) {

```

```

        productService.deleteProductById(id);
        return new ResponseEntity<>(HttpStatus.OK);
    }

    @GetMapping("/users")
    public ResponseEntity<List<User>> getAllSignedUpUsers() {
        List<User> allSignedUpUsers = userService.allSignedUpUsers();
        if (allSignedUpUsers.isEmpty()) {
            return new ResponseEntity<List<User>>(HttpStatus.NO_CONTENT);
        }
        return new ResponseEntity<List<User>>(allSignedUpUsers, HttpStatus.OK);
    }

    @GetMapping("/users/{userName}")
    public ResponseEntity<User> getSignedUpUser(@PathVariable("userName") String
userName) {
        Optional<User> signedUpUser = userService.getSignedUpUserByName(userName);
        if (!signedUpUser.isPresent()) {
            return new ResponseEntity<User>(HttpStatus.NOT_FOUND);
        }
        return new ResponseEntity<User>(signedUpUser.get(), HttpStatus.OK);
    }

    @GetMapping("/purchasereport")
    public ResponseEntity<List<PurchaseReport>> getPurchaseReport() {
        List<PurchaseReport> purchaseReport =
purchaseReportService.getAllPurchaseReport();
        if (purchaseReport.isEmpty()) {
            return new
ResponseEntity<List<PurchaseReport>>(HttpStatus.NO_CONTENT);
        }
        return new ResponseEntity<List<PurchaseReport>>(purchaseReport,
HttpStatus.OK);
    }

    @GetMapping("/purchasereport/category/{category}")
    public ResponseEntity<List<PurchaseReport>>
getPurchaseReportBasedOnCategory(@PathVariable("category") String category) {
        List<PurchaseReport> purchaseReportBasedOnCategory =
purchaseReportService.getPurchaseReportBasedOnCategory(category);
        if (purchaseReportBasedOnCategory.isEmpty()) {
            return new
ResponseEntity<List<PurchaseReport>>(HttpStatus.NO_CONTENT);
        }
        return new
ResponseEntity<List<PurchaseReport>>(purchaseReportBasedOnCategory, HttpStatus.OK);
    }

```

```

        @GetMapping("/purchasereport/date/{date}")
        public ResponseEntity<List<PurchaseReport>>
getPurchaseReportBasedOnDate(@PathVariable("date") String date) throws ParseException {
            System.out.println("Date from url is : " + date);
            List<PurchaseReport> purchaseReportBasedOnCategory =
purchaseReportService.getPurchaseReportBasedOnDate(date);
            if (purchaseReportBasedOnCategory.isEmpty()) {
                return new
ResponseEntity<List<PurchaseReport>>(HttpStatus.NO_CONTENT);
            }
            return new
ResponseEntity<List<PurchaseReport>>(purchaseReportBasedOnCategory, HttpStatus.OK);
        }
    }
}

```

UserController.java

```

package com.webshoe.controller;

import java.security.SecureRandom;
import java.util.Date;
import java.util.Optional;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.security.crypto.bcrypt.BCryptPasswordEncoder;
import org.springframework.transaction.annotation.Transactional;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.ResponseBody;
import org.springframework.web.bind.annotation.RestController;

import com.webshoe.entity.Product;
import com.webshoe.entity.User;
import com.webshoe.service.ProductService;
import com.webshoe.service.PurchaseReportService;
import com.webshoe.service.UserService;

@RestController
@RequestMapping("/users")
public class UserController {

    @Autowired
    private UserService userService;

    @Autowired
    private ProductService productService;

    @Autowired
    private PurchaseReportService purchaseReportService;

    @PostMapping("/signup")
    public @ResponseBody String register(@RequestBody(required = false)
User user) {
        if (user == null) {
            return "Enter Valid User Details - User details should
not be Null";
        }
    }
}

```

```

        }else if(user.getUserName() == null || user.getUserPassword() ==
null || user.getUserEmail() == null) {
            return "Enter Valid User Details - All the fields(Name,
Password, Email) are mandatory";
        }
        int strength = 10;
        BCryptPasswordEncoder bCryptPasswordEncoder = new
BCryptPasswordEncoder(strength, new SecureRandom());
        String encodedPassword =
bCryptPasswordEncoder.encode(user.getUserPassword());
        user.setUserPassword(encodedPassword);
        user.setName(user.getUserName().toLowerCase());
        userService.signUp(user);
        return "Signed Up Successfully!";
    }

    @PostMapping("/{userId}/buy/{productName}")
    @Transactional
    public @ResponseBody String buyProductByName(@PathVariable(name =
"userId") int userID,
        @PathVariable("productName") String productName) {
        Optional<Product> product =
productService.getProductByName(productName);
        if (product.isPresent()) {
            Optional<User> user =
userService.getSignedUpUserById(userID);
            if (user.isPresent()) {
                User user2 = user.get();
                user2.addProduct(product.get());
                Product product2 = product.get();
                product2.addUser(user.get());
                userService.saveUserWithProduct(user2);
                productService.addProduct(product2);

                purchaseReportService.savePurchaseReport(product2.getProductName(),
product2.getCategory(),
                    product2.getProductPrice(),
user2.getUserName(), user2.getUserEmail(), new Date());
                return "You have successfully bought : " +
product.get().getProductName();
            } else {
                return "User Not Found! to buy the Product";
            }
        }
        return "Product Not Found!";
    }
}

```

Product.java

```

package com.webshoe.entity;

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

import javax.persistence.CascadeType;
import javax.persistence.Entity;
import javax.persistence.FetchType;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;

```

```

import javax.persistence.ManyToMany;
import javax.persistence.Table;

import com.fasterxml.jackson.annotation.JsonIgnoreProperties;

@Entity
@Table(name = "product")
//Added below line to not get Infinite loop when retriving user and product details
@JsonIgnoreProperties({ "hibernateLazyInitializer", "handler", "users" })
public class Product {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int productId;

    private String productName;

    private int productPrice;

    private String category;

    @ManyToMany(fetch = FetchType.LAZY, cascade = { CascadeType.PERSIST,
CascadeType.MERGE }, mappedBy = "products")
    private List<User> users = new ArrayList<User>();

    public void addUser(User user) {
        this.users.add(user);
    }

    @Override
    public String toString() {

        return "Custom ToString -> Product";
    }

    public int getProductId() {
        return productId;
    }

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

    public String getProductName() {
        return productName;
    }

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

```

```

        public int getProductPrice() {
            return productPrice;
        }

        public void setProductPrice(int productPrice) {
            this.productPrice = productPrice;
        }

        public String getCategory() {
            return category;
        }

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

        public List<User> getUsers() {
            return users;
        }

        public void setUsers(List<User> users) {
            this.users = users;
        }

        public Product(int productId, String productName, int productPrice, String category,
List<User> users) {
            super();
            this.productId = productId;
            this.productName = productName;
            this.productPrice = productPrice;
            this.category = category;
            this.users = users;
        }

        public Product() {
            super();
        }

        public Product(String productName, int productPrice, String category, List<User> users) {
            super();
            this.productName = productName;
            this.productPrice = productPrice;
            this.category = category;
            this.users = users;
        }
    }

```

PurchaseReport.java

```

package com.webshoe.entity;
import java.util.Date;

```



```
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.Temporal;
import javax.persistence.TemporalType;

@Entity
public class PurchaseReport {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int id;

    private String categoryOfProduct;

    private String productName;

    private int priceOfTheProduct;

    private String userWhoBoughtTheProduct;

    private String userEmailBoughtTheProduct;

    @Temporal(TemporalType.DATE)
    private Date dateOfProductPurchase;

    public PurchaseReport(String productName, String categoryOfProduct, int
priceOfTheProduct, String userWhoBoughtTheProduct, String userEmailBoughtTheProduct, Date
dateOfProductPurchase) {
        this.productName = productName;
        this.categoryOfProduct = categoryOfProduct;
        this.userWhoBoughtTheProduct = userWhoBoughtTheProduct;
        this.dateOfProductPurchase = dateOfProductPurchase;
        this.userEmailBoughtTheProduct = userEmailBoughtTheProduct;
        this.priceOfTheProduct = priceOfTheProduct;
    }

    public int getId() {
        return id;
    }

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

    public String getCategoryOfProduct() {
        return categoryOfProduct;
    }
}
```

```

    public void setCategoryOfProduct(String categoryOfProduct) {
        this.categoryOfProduct = categoryOfProduct;
    }

    public String getProductName() {
        return productName;
    }

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

    public int getPriceOfTheProduct() {
        return priceOfTheProduct;
    }

    public void setPriceOfTheProduct(int priceOfTheProduct) {
        this.priceOfTheProduct = priceOfTheProduct;
    }

    public String getUserWhoBoughtTheProduct() {
        return userWhoBoughtTheProduct;
    }

    public void setUserWhoBoughtTheProduct(String userWhoBoughtTheProduct) {
        this.userWhoBoughtTheProduct = userWhoBoughtTheProduct;
    }

    public String getUserEmailBoughtTheProduct() {
        return userEmailBoughtTheProduct;
    }

    public void setUserEmailBoughtTheProduct(String userEmailBoughtTheProduct) {
        this.userEmailBoughtTheProduct = userEmailBoughtTheProduct;
    }

    public Date getDateOfProductPurchase() {
        return dateOfProductPurchase;
    }

    public void setDateOfProductPurchase(Date dateOfProductPurchase) {
        this.dateOfProductPurchase = dateOfProductPurchase;
    }

    public PurchaseReport(int id, String categoryOfProduct, String productName, int
priceOfTheProduct,
                        String userWhoBoughtTheProduct, String userEmailBoughtTheProduct, Date
dateOfProductPurchase) {
        super();
        this.id = id;

```

```

        this.categoryOfProduct = categoryOfProduct;
        this.productName = productName;
        this.priceOfTheProduct = priceOfTheProduct;
        this.userWhoBoughtTheProduct = userWhoBoughtTheProduct;
        this.userEmailBoughtTheProduct = userEmailBoughtTheProduct;
        this.dateOfProductPurchase = dateOfProductPurchase;
    }

    public PurchaseReport() {
        super();
    }

    @Override
    public String toString() {
        return "PurchaseReport [id=" + id + ", categoryOfProduct=" + categoryOfProduct + ",
productName=" + productName
        + ", priceOfTheProduct=" + priceOfTheProduct + ",
userWhoBoughtTheProduct=" + userWhoBoughtTheProduct
        + ", userEmailBoughtTheProduct=" + userEmailBoughtTheProduct +
", dateOfProductPurchase="
        + dateOfProductPurchase + "]";
    }
}

```

User.java

```

package com.webshoe.entity;

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

import javax.persistence.CascadeType;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.FetchType;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.JoinColumn;
import javax.persistence.JoinTable;
import javax.persistence.ManyToMany;
import javax.persistence.Table;

@Entity
@Table(name = "user")
public class User {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)

```

```

private int userId;

@Column(name = "name")
private String userName;

@Column(name = "email")
private String userEmail;

@Column(name = "password")
private String userPassword;

@ManyToMany(fetch = FetchType.LAZY, cascade = { CascadeType.PERSIST,
CascadeType.MERGE })
@JoinTable(name = "USER_PRODUCT", joinColumns = @JoinColumn(name = "USER_ID"),
inverseJoinColumns = @JoinColumn(name = "PRODUCT_ID"))
private List<Product> products = new ArrayList<Product>();

public User(String userName, String userEmail) {
    this.userEmail = userEmail;
    this.userName = userName;
}

public void addProduct(Product product) {
    this.products.add(product);
}

@Override
public String toString() {
    return "Custom ToString -> User [userId=" + userId + ", userName=" + userName + ",
userEmail=" + userEmail + ", userPassword="
        + userPassword + ", products=" + products + "]";
}

public int getUserId() {
    return userId;
}

public void setUserId(int userId) {
    this.userId = userId;
}

public String getUserName() {
    return userName;
}

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

public String getUserEmail() {
    return userEmail;
}

```

```

    }

    public void setUserEmail(String userEmail) {
        this.userEmail = userEmail;
    }

    public String getUserPassword() {
        return userPassword;
    }

    public void setUserPassword(String userPassword) {
        this.userPassword = userPassword;
    }

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

    public void setProducts(List<Product> products) {
        this.products = products;
    }

    public User(int userId, String userName, String userEmail, String userPassword,
List<Product> products) {
        super();
        this.userId = userId;
        this.userName = userName;
        this.userEmail = userEmail;
        this.userPassword = userPassword;
        this.products = products;
    }

    public User(String userName, String userEmail, String userPassword, List<Product> products)
{
        super();
        this.userName = userName;
        this.userEmail = userEmail;
        this.userPassword = userPassword;
        this.products = products;
    }

    public User() {
        super();
    }

}

```

ProductRepository.java

```
package com.webshoe.repository;
```

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

```

import java.util.Optional;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.data.jpa.repository.Query;
import org.springframework.data.repository.query.Param;
import org.springframework.stereotype.Repository;

import com.webshoe.entity.Product;

@Repository
public interface ProductRepository extends JpaRepository<Product, Integer>{

    @Query(value = "select p from Product p where p.category=:category")
    List<Product> findAllByCategory(@Param("category") String category);

    @Query(value = "select p from Product p where p.productName=:productName")
    Optional<Product> findByName(@Param("productName") String name);

}

```

PurchaseReportRepository.java

```

package com.webshoe.repository;

import java.util.Date;
import java.util.List;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.data.jpa.repository.Query;
import org.springframework.data.repository.query.Param;
import org.springframework.stereotype.Repository;

import com.webshoe.entity.PurchaseReport;

@Repository
public interface PurchaseReportRepository extends JpaRepository<PurchaseReport, Integer> {

    @Query("select pr from PurchaseReport pr where pr.categoryOfProduct=:category")
    List<PurchaseReport> findAllByCategory(@Param("category") String category);

    @Query("select pr from PurchaseReport pr where pr.dateOfProductPurchase=:date")
    List<PurchaseReport> findAllByDate(@Param("date") Date date);

}

```

UserRepository.java

```

package com.webshoe.repository;

import java.util.Optional;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.data.jpa.repository.Query;
import org.springframework.data.repository.query.Param;

```

```

import org.springframework.stereotype.Repository;

import com.webshoe.entity.User;

@Repository
public interface UserRepository extends JpaRepository<User, Integer> {

    @Query(value = "select u from User u where u.userName=:userName")
    Optional<User> findUserByName(@Param("userName")String userName);

}

```

ProductService.java

```

package com.webshoe.service;

import java.util.List;
import java.util.Optional;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import com.webshoe.entity.Product;
import com.webshoe.repository.ProductRepository;

@Service
public class ProductService {

    @Autowired
    ProductRepository productRepository;

    public Product addProduct(Product product) {
        return productRepository.save(product);
    }

    public Product addProductWithUser(Product product) {
        return productRepository.save(product);
    }

    public Optional<Product> getProductById(int id) {
        Optional<Product> proOptional = productRepository.findById(id);
        return proOptional;
    }

    public Optional<Product> getProductByName(String name) {
        Optional<Product> proOptional = productRepository.findByName(name);
        return proOptional;
    }

}

```

```

        public List<Product> getAllProducts() {
            return productRepository.findAll();
        }

        public List<Product> getAllProductBasedOnCatogary(String category) {
            return productRepository.findAllByCategory(category);
        }

        public void deleteProductById(int prdId) {
            productRepository.deleteById(prdId);
        }
    }
}

```

PurchaseReportService.java

```

package com.webshoe.service;

import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import com.webshoe.entity.PurchaseReport;
import com.webshoe.repository.PurchaseReportRepository;

@Service
public class PurchaseReportService {

    @Autowired
    private PurchaseReportRepository purchaseReportRepository;

    public void savePurchaseReport(String productName, String category, int productPrice,
String userName, String userEmail, Date date) {
        PurchaseReport purchaseReport = new PurchaseReport(productName, category,
productPrice, userName, userEmail, date);
        purchaseReportRepository.save(purchaseReport);
    }

    public List<PurchaseReport> getAllPurchaseReport() {
        List<PurchaseReport> purchaseReports = purchaseReportRepository.findAll();
        return purchaseReports;
    }

    public List<PurchaseReport> getPurchaseReportBasedOnCategory(String category) {
        List<PurchaseReport> purchaseReports =

```



```

purchaseReportRepository.findAllByCategory(category);
        return purchaseReports;
    }

    public List<PurchaseReport> getPurchaseReportBasedOnDate(String date) throws
ParseException {
        List<PurchaseReport> purchaseReports =
purchaseReportRepository.findAllByDate(new SimpleDateFormat("yyyy-MM-dd").parse(date));
        return purchaseReports;
    }
}

```

UserService.java

```

package com.webshoe.service;

import java.util.List;
import java.util.Optional;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import com.webshoe.entity.User;
import com.webshoe.repository.UserRepository;

@Service
public class UserService {

    @Autowired
    UserRepository userRepository;

    public User signUp(User user) {
        return userRepository.save(user);
    }

    public User saveUserWithProduct(User user) {
        return userRepository.save(user);
    }

    public List<User> allSignedUpUsers() {
        return userRepository.findAll();
    }

    public Optional<User> getSignedUpUserByName(String name) {
        Optional<User> user = userRepository.findUserByName(name);
        return user;
    }

    public Optional<User> getSignedUpUserById(int id) {
        Optional<User> user = userRepository.findById(id);
        return user;
    }
}

```

Application.properties

```
spring.datasource.url=jdbc:mysql://localhost:3306/sportyshoes
spring.datasource.username=root
spring.datasource.password=Nagaraju@211

spring.datasource.driverClassName=com.mysql.jdbc.Driver
spring.jpa.properties.hibernate.dialect =
org.hibernate.dialect.MySQL5Dialect

spring.mvc.pathmatch.matching-strategy=ant-path-matcher
spring.jpa.generate-ddl=true
spring.jpa.hibernate.ddl-auto= update
spring.jpa.show-sql=true
spring.jpa.properties.hibernate.format_sql=true
logging.level.org.hibernate.type=trace

server.port = 8081
```

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>2.6.4</version>
    <relativePath /> <!-- lookup parent from repository -->
  </parent>
  <groupId>com.webshoe</groupId>
  <artifactId>shoes-web</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <name>shoes-web</name>
  <description>Online web Service</description>
  <properties>
    <java.version>1.8</java.version>
  </properties>
  <dependencies>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-data-jpa</artifactId>
    </dependency>
    <!--
https://mvnrepository.com/artifact/com.fasterxml.jackson.dataformat/jackson
-dataformat-xml -->
    <dependency>
      <groupId>com.fasterxml.jackson.dataformat</groupId>
      <artifactId>jackson-dataformat-xml</artifactId>
    </dependency>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-security</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>
<dependency>
  <groupId>org.springframework.security</groupId>
  <artifactId>spring-security-test</artifactId>
  <scope>test</scope>
</dependency>
<!-- <dependency> <groupId>io.springfox</groupId>
<artifactId>springfox-boot-starter</artifactId>
  <version>3.0.0</version> </dependency> <dependency>
<groupId>io.springfox</groupId>
  <artifactId>springfox-swagger-ui</artifactId>
<version>3.0.0</version> </dependency> -->
<dependency>
  <groupId>io.springfox</groupId>
  <artifactId>springfox-swagger2</artifactId>
  <version>2.9.2</version>
</dependency>

<dependency>
  <groupId>io.springfox</groupId>
  <artifactId>springfox-swagger-ui</artifactId>
  <version>2.9.2</version>
</dependency>

</dependencies>

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

</project>

```

Screen Shots

Products

Overview GET localhost:8081/admin/ + No Environment

localhost:8081/admin/products Save

GET localhost:8081/admin/products Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies (1) Headers (13) Test Results Status: 401 Unauthorized Time: 1178 ms Size: 601 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "timestamp": "2022-05-17T18:09:41.940+00:00",
3   "status": 401,
4   "error": "Unauthorized",
5   "message": "Unauthorized",
6   "path": "/admin/products"
7 }
```

Get Method

localhost:8081/admin/products Save

GET localhost:8081/admin/products Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Type

The authorization header generated when you send [Learn more about authorization](#)

This request is not inheriting any authorization helper at the moment. Save it in a collection to use the parent's authorization helper.

Body Cookies (1) Headers (13) Test Results Status: 401 Unauthorized Time: 1178 ms Size: 601 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "timestamp": "2022-05-17T18:09:41.940+00:00",
3   "status": 401,
4   "error": "Unauthorized",
5   "message": "Unauthorized",
6   "path": "/admin/products"
7 }
```

Authorization dropdown menu options:

- Inherit auth from parent
- No Auth
- API Key
- Bearer Token
- Basic Auth
- Digest Auth
- OAuth 1.0
- OAuth 2.0
- Hawk Authentication
- AWS Signature
- NTLM Authentication ...
- Akamai EdgeGrid

Admin Page

Overview

GET localhost:8081/admin/

No Environment

localhost:8081/admin/products

GET

localhost:8081/admin/products

Send

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

Cookies

Type

Basic Auth

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. [Learn more about variables](#)

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

Username

admin

Password

.....

Show Password

Body

Cookies (1)

Headers (12)

Test Results

Status: 200 OK Time: 1333 ms Size: 811 B Save Response

Pretty

Raw

Preview

Visualize

JSON

```
1 {
2   {
3     "productId": 1,
4     "productName": "Nike",
5     "productPrice": 6000,
6     "category": "Sports"
7   },
8   {
9     "productId": 2,
10    "productName": "Addidas",
11    "productPrice": 3000
```

Cookies Capture requests Bootcamp Runner Trash

Products

Overview

GET localhost:8081/admin/

No Environment

localhost:8081/admin/products/2

GET

localhost:8081/admin/products/2

Send

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

Cookies

Type

Basic Auth

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. [Learn more about variables](#)

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

Username

admin

Password

.....

Show Password

Body

Cookies (1)

Headers (11)

Test Results

Status: 200 OK Time: 150 ms Size: 422 B Save Response

Pretty

Raw

Preview

Visualize

JSON

```
1 {
2   "productId": 2,
3   "productName": "Addidas",
4   "productPrice": 3000,
5   "category": "Men"
6 }
```

User

Overview

GET localhost:8081/admin/

No Environment

localhost:8081/admin/users

GETlocalhost:8081/admin/usersSend

ParamsAuthorizationHeaders (8)BodyPre-request ScriptTestsSettingsCookies

TypeBasic Auth

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. [Learn more about variables](#)

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

Usernameadmin

Password*****
☐ Show Password

BodyCookies (1)Headers (11)Test ResultsStatus: 200 OKTime: 102 msSize: 963 BSave Response

PrettyRawPreviewVisualizeJSON

```
1 {
2   "userId": 1,
3   "userName": "rocky",
4   "userEmail": "rocky@gmail.com",
5   "userPassword": "$2y$10$dVC.DE.QXSgGrNEPeCNCbeWVF6Zz78o5KYWY9sGQ2mFP728smv42i",
6   "products": []
7 }
8 {
9   "userId": 2,
10  "userName": "khalid"
```

Purchase Report

Overview

GET localhost:8081/admin/

No Environment

localhost:8081/admin/purchasereport

GETlocalhost:8081/admin/purchasereportSend

ParamsAuthorizationHeaders (8)BodyPre-request ScriptTestsSettingsCookies

TypeBasic Auth

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. [Learn more about variables](#)

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

Usernameadmin

Password*****
☐ Show Password

BodyCookies (1)Headers (11)Test ResultsStatus: 200 OKTime: 166 msSize: 1.52 KBSave Response

PrettyRawPreviewVisualizeJSON

```
1 {
2   "id": 1,
3   "categoryOfProduct": "Sports",
4   "productName": "Nike",
5   "priceOfTheProduct": 6000,
6   "userWhoBoughtTheProduct": "rocky",
7   "userEmailBoughtTheProduct": "rocky@gmail.com",
8   "dateOfProductPurchase": "2022-01-06"
9 }
10 {
```

CookiesCapture requestsBootcampRunnerTrash

Delete

Overview

DEL localhost:8081/admin/

No Environment

localhost:8081/admin/products/4

DELETElocalhost:8081/admin/products/4Send

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

Cookies

Type

Basic Auth

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. [Learn more about variables](#)

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

Usernameadmin

Password*****

Show Password

Body

Cookies (1)

Headers (11)

Test Results

Status: 200 OKTime: 49 msSize: 423 BSave Response

Pretty

Raw

Preview

Visualize

JSON

1

2

3

4

5

6

"productId": 4,

"productName": "Reebok",

"productPrice": 5000,

"category": "women"

After Deletion

Overview

GET localhost:8081/admin/

No Environment

localhost:8081/admin/products/4

GETlocalhost:8081/admin/products/4Send

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

Cookies

Type

Basic Auth

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. [Learn more about variables](#)

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

Usernameadmin

Password*****

Show Password

Body

Cookies (1)

Headers (9)

Test Results

Status: 204 No ContentTime: 48 msSize: 294 BSave Response

Pretty

Raw

Preview

Visualize

Text

1

Adding a product

Overview

POST localhost:8081/admin/

No Environment

localhost:8081/admin/products

POSTlocalhost:8081/admin/productsSend

ParamsAuthorization●Headers (10)Body●Pre-request ScriptTestsSettingsCookies

●none●form-data●x-www-form-urlencoded●raw●binary●GraphQLJSON

1{"productId":5,"productName":"Sketchers","productPrice":7000,"category":"Sneakers"}

BodyCookies (1)Headers (11)Test ResultsStatus: 200 OKTime: 31 msSize: 421 BSave Response

PrettyRawPreviewVisualize{"productId":3,"productName":"Ajio","productPrice":4000,"category":"Party"}

After Insertion

Overview

GET localhost:8081/admin/

No Environment

localhost:8081/admin/products/5

GETlocalhost:8081/admin/products/5Send

ParamsAuthorization●Headers (10)Body●Pre-request ScriptTestsSettingsCookies

●none●form-data●x-www-form-urlencoded●raw●binary●GraphQLJSON

1{"productId":5,"productName":"Sketchers","productPrice":7000,"category":"Sneakers"}

BodyCookies (1)Headers (11)Test ResultsStatus: 200 OKTime: 51 msSize: 429 BSave Response

PrettyRawPreviewVisualizeJSON{"productId":5,"productName":"Sketchers","productPrice":7000,"category":"Sneakers"}