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Batch	MS FSD DEC 2021 Cohort 1
Project Name	Kiran Sporty Shoes
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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=Kiran@256

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](#)

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

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 }
```

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

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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

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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 Results

Status: 200 OKTime: 31 msSize: 421 BSave Response

PrettyRawPreviewVisualize

1{"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 Results

Status: 200 OKTime: 51 msSize: 429 BSave Response

PrettyRawPreviewVisualizeJSON

1{"productId":5,
2"productName": "Sketchers",
3"productPrice": 7000,
4"category": "Sneakers"
5}
6

CookiesCapture requestsBootcampRunnerTrash