

```
1 package com.sportshoes.ecom.services;
2
3 import com.sportshoes.ecom.entity.Category;
4 import com.sportshoes.ecom.entity.Products;
5 import com.sportshoes.ecom.exceptions.
6 ProductNotFoundException;
7 import com.sportshoes.ecom.repos.ProductRepo;
8 import org.springframework.beans.factory.annotation.
9 Autowired;
10 import org.springframework.stereotype.Component;
11
12
13 @Component
14 public class ProductService {
15     private final ProductRepo productRepo;
16
17     @Autowired
18     public ProductService(ProductRepo productRepo) {
19         this.productRepo = productRepo;
20     }
21
22     public Products addNewProduct(Products product) {
23         return productRepo.save(product);
24     }
25
26     public Products findProductById(long id) {
27         Products products = this.productRepo.findById
28 (id)
29             .orElseThrow(()-> new
30             ProductNotFoundException("product with ID " + id + " "
31             "not found"));
32             /* if(products.isDeletedFlag())
33                 return null;*/
34             return products;
35     }
36
37
38     public List<Products> getAllProducts() {
39         return this.productRepo.findAll();
40     }
41
42     public List<Products> getProductsByCategory(Long
43 id) {
```

```
39         return this.productRepo.findAllByCategoryId(
40             new Category(id));/*stream()
41             .filter(a-> !a.isDeletedFlag()).
42             collect(Collectors.toList());*/
43     }
44
45     public void deleteProduct(Long id) {
46         System.out.println("deleting product + " + id
47 );
48         /*Products product = this.productRepo.
49         findById(id).orElseThrow(()->
50             new ProductNotFoundException("product
51             with ID " + id + " not found"));
52         if(!product.isDeletedFlag()) {
53             product.setDeletedFlag(true);
54             this.productRepo.saveAndFlush(product);
55         }*/
56         this.productRepo.softDeleteProduct(id);
57     }
58
59     public int getProductPrice(Long id) {
60         return this.productRepo.getProductPrice(id);
61     }
62
63
64 }
65
```

```
1 package com.sportshoes.ecom.services;
2
3 import com.sportshoes.ecom.entity.Category;
4 import com.sportshoes.ecom.entity.Customers;
5 import com.sportshoes.ecom.entity.Products;
6 import com.sportshoes.ecom.exceptions.
    ProductNotFoundException;
7 import com.sportshoes.ecom.repos.CategoryRepo;
8 import com.sportshoes.ecom.security.
    ApplicationUserDetails;
9 import org.springframework.beans.factory.annotation.
    Autowired;
10 import org.springframework.security.core.context.
    SecurityContextHolder;
11 import org.springframework.stereotype.Component;
12 import org.springframework.stereotype.Service;
13 import org.springframework.web.bind.annotation.
    RequestBody;
14
15 import javax.transaction.Transactional;
16 import java.util.List;
17 import java.util.Optional;
18
19 @Component
20 public class CategoryService {
21     private CategoryRepo categoryRepo;
22     private CurrentUserService userService;
23     private ProductService productService;
24     @Autowired
25     public CategoryService(CategoryRepo categoryRepo
        , CurrentUserService userService, ProductService
        productService) {
26         this.categoryRepo = categoryRepo;
27         this.userService = userService;
28         this.productService = productService;
29     }
30
31     public Category addNewCategory(Category category
    ) {
32         return categoryRepo.save(category);
33     }
34
35     public Category getCategoryById(long id) {
36         return categoryRepo.findById(id).orElse(null)
```

```
36 );
37 }
38
39     public List<Category> getAllCategories() {
40         return this.categoryRepo.findAll();
41     }
42     public void deleteCategory(Long id) {
43         this.categoryRepo.deleteById(id);
44     }
45
46     @Transactional
47     public void softDeleteCategory(Long id) {
48         List<Products> productsByCategory = this.
49             productService.getProductsByCategory(id);
50         productsByCategory.forEach(a-> this.
51             productService.deleteProduct(a.getID()));
52         this.categoryRepo.softDeleteCategory(id);
53     }
54 }
```

```
1 package com.sportshoes.ecom.services;
2
3 import com.sportshoes.ecom.entity.Customers;
4 import com.sportshoes.ecom.repos.CustomerRepo;
5 import com.sportshoes.ecom.security.
6     ApplicationUserDetails;
7 import org.springframework.dao.
8     DataIntegrityViolationException;
9 import org.springframework.security.core.context.
10    SecurityContextHolder;
11 import org.springframework.security.crypto.bcrypt.
12    BCryptPasswordEncoder;
13 import org.springframework.stereotype.Component;
14
15 import javax.transaction.Transactional;
16 import java.util.List;
17
18 @Component
19 public class CustomerService {
20
21     private CustomerRepo repo;
22     private BCryptPasswordEncoder passwordEncoder;
23
24     public CustomerService(CustomerRepo repo,
25                           BCryptPasswordEncoder passwordEncoder) {
26         this.repo = repo;
27         this.passwordEncoder = passwordEncoder;
28     }
29
30     public Customers addNewCustomer(Customers
31                                     customers) {
32         System.out.println(customers);
33         if (customers.getPassword() == null) {
34             throw new IllegalArgumentException("Password cannot be null");
35         }
36         customers.setPassword(passwordEncoder.encode(
37             customers.getPassword()));
38         return this.repo.saveAndFlush(customers);
39     }
40     @Transactional
41     public String changePassword(String newPassword,
42                                  Long userID) {
43         /*ApplicationUserDetails principal = (
```

```
35 ApplicationUserDetails) SecurityContextHolder.  
      getContext().getAuthentication().getPrincipal();  
36          Long userID = principal.getUserID();  
37          System.out.println("changing password for  
      " + userID + " new Pass " + newPassword );  
38          */this.repo.changeMyPassword(this.  
      passwordEncoder.encode(newPassword), userID);  
39          return newPassword;  
40      }  
41  
42      public List<Customers> getAllRegisteredUsers() {  
43          return this.repo.getAllRegisteredUsers();  
44      }  
45  
46      public void softDeleteAccount(Long id) {  
47          this.repo.softDeleteAccount(id);  
48      }  
49  
50  
51  
52 }  
53
```

```
1 package com.sportshoes.ecom.services;
2
3 import com.sportshoes.ecom.entity.Customers;
4 import com.sportshoes.ecom.entity.Products;
5 import com.sportshoes.ecom.entity.Purchase;
6 import com.sportshoes.ecom.repos.PurchaseRepo;
7 import com.sportshoes.ecom.security.
8     ApplicationUserDetails;
9 import org.springframework.beans.factory.annotation.
10    Autowired;
11 import org.springframework.security.core.context.
12    SecurityContextHolder;
13 import org.springframework.stereotype.Component;
14 import org.springframework.stereotype.Service;
15
16 import java.time.LocalDate;
17 import java.util.ArrayList;
18 import java.util.List;
19 import java.util.Map;
20 import java.util.stream.Collectors;
21
22 @Component
23 public class PurchaseService {
24
25     @Autowired
26     PurchaseRepo purchaseRepo;
27
28     public Purchase savePurchase(Purchase purchase) {
29         return purchaseRepo.save(purchase);
30     }
31
32     public List<Purchase> getAllMyPurchases(Long id
33 ) {
34         return purchaseRepo.getPurchaseByCustomerId(
35 id);
36     }
37
38     public List<Purchase> getAllPurchases() {
39         return this.purchaseRepo.findAll();
40     }
41
42     public List<Purchase> getPurchaseByCategory(Long
43 id) {
44         List<Purchase> filtered = new ArrayList<>();
```

```
39         for(Purchase i: this.purchaseRepo.findAll
40             ()) {
41             for ( Map.Entry<Products, Integer> j: i.
42                 getProduct().entrySet()) {
43                 if(j.getKey().getCategoryId().getID
44                   () == id)
45                     filtered.add(i);
46             }
47         }
48         public List<Purchase> filterPurchaseByDate(
49             LocalDate date) {
50             return this.purchaseRepo.filterProductsByDate
51             (date);
52 }
```

```
1 package com.sportshoes.ecom.services;
2
3
4 import com.sportshoes.ecom.security.
5     ApplicationUserDetails;
6 import org.springframework.security.core.
7     Authentication;
8 import org.springframework.security.core.context.
9     SecurityContext;
10 import org.springframework.security.core.context.
11     SecurityContextHolder;
12 import org.springframework.stereotype.Component;
13 import org.springframework.stereotype.Service;
14
15 @Component
16 public class CurrentUserService {
17     private final Authentication authentication =
18         SecurityContextHolder.getContext().getAuthentication();
19
20     public Long getIdFromSecurityContext() {
21         Object principal = authentication.
22             getPrincipal();
23         if(principal instanceof
24             ApplicationUserDetails )
25             return ((ApplicationUserDetails)
26             principal).getUserId();
27         return 0L;
28     }
29
30 }
```

```
1 package com.sportshoes.ecom.AuthModels;
2
3 import lombok.*;
4
5 @NoArgsConstructor
6 @AllArgsConstructor
7 @Getter
8 public class AuthRequest {
9     private String emailId;
10    private String password;
11 }
12
```

```
1 package com.sportshoes.ecom.AuthModels;
2
3 import lombok.AllArgsConstructor;
4 import lombok.Getter;
5 import lombok.NoArgsConstructor;
6
7 @AllArgsConstructor
8 @NoArgsConstructor
9 @Getter
10 public class AuthResponse {
11     public String jwtToken;
12
13
14 }
15
```

```
1 package com.sportshoes.ecom.exceptions;
2
3 import io.jsonwebtoken.MalformedJwtException;
4 import lombok.extern.slf4j.Slf4j;
5 import org.springframework.dao.
6 DataIntegrityViolationException;
7 import org.springframework.http.HttpStatus;
8 import org.springframework.http.ResponseEntity;
9 import org.springframework.http.converter.
10 HttpMessageNotReadableException;
11 import org.springframework.validation.FieldError;
12 import org.springframework.web.bind.
13 MethodArgumentNotValidException;
14 import org.springframework.web.bind.annotation.
15 ControllerAdvice;
16 import org.springframework.web.bind.annotation.
17 ExceptionHandler;
18 import org.springframework.web.bind.annotation.
19 ResponseStatus;
20 import org.springframework.web.servlet.handler.
21 AbstractHandlerExceptionResolver;
22
23 @Slf4j
24 @ControllerAdvice
25 public class CustomExceptionHandlers extends
26 RuntimeException {
27     @ResponseStatus(HttpStatus.BAD_REQUEST)
28     @ExceptionHandler(HttpMessageNotReadableException
29 .class)
30     public ResponseEntity<String> JsonParseException
31     (HttpMessageNotReadableException e) {
32         System.out.println("caught this exception");
33         log.info(e.getMessage());
34         return ResponseEntity.status(HttpStatus.
35 CONFLICT)
36             .body("Invalid JSON Object Provided"
37 );
38     }
39     @ResponseStatus(HttpStatus.BAD_REQUEST)
```

```
33     @ExceptionHandler(DataIntegrityViolationException
34         .class)
35     public ResponseEntity<String>
36         handleDataIntegrityException(
37             DataIntegrityViolationException e) {
38         e.getMostSpecificCause();
39         return ResponseEntity.status(HttpStatus.
40             CONFLICT).body(e.getMostSpecificCause().getMessage
41             ());
42     }
43
44     @ExceptionHandler(MethodArgumentNotValidException
45         .class)
46     public ResponseEntity<String>
47         handleValidationException(
48             MethodArgumentNotValidException e) {
49         Map<String, String> errorMsg = new HashMap
50             <>();
51         e.getBindingResult().getFieldErrors().stream
52             ().forEach(a->errorMsg.put(a.getField(), a.
53                 getDefaultMessage()));
54         return ResponseEntity.status(HttpStatus.
55             BAD_REQUEST).body(errorMsg.toString());
56     }
57
58     @ExceptionHandler(ProductNotFoundException.class)
59     public ResponseEntity<String>
60         handleValidationException(ProductNotFoundException e
61             ) {
62         System.out.println("catcing JST Exception");
63         return ResponseEntity.status(HttpStatus.
64             BAD_REQUEST).body(e.getMessage());
65     }
66
67     @ExceptionHandler(io.jsonwebtoken.
68         MalformedJwtException.class)
69     public ResponseEntity<String> handleJWTException(
70         MalformedJwtException e) {
71
72         return ResponseEntity.status(HttpStatus.
73             FORBIDDEN).body("invalid Jwt token");
74     }
75 }
```

```
1 package com.sportshoes.ecom.exceptions;
2
3 public class ProductNotFoundException extends
4     RuntimeException {
5     public ProductNotFoundException(String message) {
6         super(message);
7     }
8 }
```

```
1 package com.sportshoes.ecom.controllers;
2
3 import com.sportshoes.ecom.AuthModels.AuthRequest;
4 import com.sportshoes.ecom.entity.Customers;
5 import com.sportshoes.ecom.exceptions.
6     ProductNotFoundException;
7 import com.sportshoes.ecom.security.JWTUtil;
8 import com.sportshoes.ecom.security.
9     UserDetailsServiceImpl;
10 import org.springframework.beans.factory.annotation.
11     Autowired;
12 import org.springframework.context.annotation.Profile
13     ;
14 import org.springframework.http.ResponseEntity;
15 import org.springframework.security.authentication.
16     AuthenticationManager;
17 import org.springframework.security.authentication.
18     BadCredentialsException;
19 import org.springframework.security.authentication.
20     UsernamePasswordAuthenticationToken;
21 import org.springframework.security.core.userdetails.
22     UserDetails;
23 import org.springframework.security.core.userdetails.
24     UserDetailsService;
25 import org.springframework.web.bind.annotation.
26     PostMapping;
27 import org.springframework.web.bind.annotation.
28     RequestBody;
29 import org.springframework.web.bind.annotation.
30     RequestMapping;
31 import org.springframework.web.bind.annotation.
32     RestController;
33
34 @RestController
35 @Profile("!test")
36 public class Authentication {
37
38     private AuthenticationManager
39         authenticationManager;
40     @Autowired
41     private UserDetailsServiceImpl userDetailsService
42         ;
43
44     @Autowired
```

```
30     private JWTUtil jwtUtil;
31     @Autowired
32     public void setAuthenticationManager(
33         AuthenticationManager authenticationManager) {
34         this.authenticationManager =
35             authenticationManager;
36     }
37     @PostMapping("authenticate")
38     public ResponseEntity<?> createAuthToken(@
39         RequestBody AuthRequest request) {
40         try {
41             authenticationManager.authenticate(
42                 new
43                 UsernamePasswordAuthenticationToken(request.
44                     getEmailId(), request.getPassword()));
45         } catch (BadCredentialsException e) {
46             throw new ProductNotFoundException("
47             Incorrect credentials");
48         }
49         UserDetails user = userDetailsService.
50             loadUserByUsername(request.getEmailId());
51         final String token = jwtUtil.generateToken(
52             user);
53         return ResponseEntity.ok(token);
54     }
55 }
```

```
1 package com.sportshoes.ecom.controllers;
2
3 import com.sportshoes.ecom.entity.Category;
4 import com.sportshoes.ecom.entity.Customers;
5 import com.sportshoes.ecom.entity.JSONMappers.
CategoryJSONMapper;
6 import com.sportshoes.ecom.entity.JSONMappers.
ProductJSONFilter;
7 import com.sportshoes.ecom.entity.Products;
8 import com.sportshoes.ecom.entity.Purchase;
9 import com.sportshoes.ecom.security.
ApplicationUserDetails;
10 import com.sportshoes.ecom.services.CategoryService;
11 import com.sportshoes.ecom.services.CustomerService;
12 import com.sportshoes.ecom.services.ProductService;
13 import com.sportshoes.ecom.services.PurchaseService;
14 import org.springframework.beans.factory.annotation.
Autowired;
15 import org.springframework.format.annotation.
DateTimeFormat;
16 import org.springframework.http.ResponseEntity;
17 import org.springframework.security.core.annotation.
AuthenticationPrincipal;
18 import org.springframework.security.core.context.
SecurityContextHolder;
19 import org.springframework.security.core.userdetails.
User;
20 import org.springframework.validation.annotation.
Validated;
21 import org.springframework.web.bind.annotation.*;
22
23 import javax.validation.Valid;
24 import java.time.LocalDate;
25 import java.time.format.DateTimeFormatter;
26 import java.util.List;
27
28
29 @RestController
30 @RequestMapping("/api/admin")
31 public class AdminController {
32
33     private final ProductService productService;
34     private final CustomerService customerService;
35     private final CategoryService categoryService;
```

```
36     private final PurchaseService purchaseService;
37     @Autowired
38     public AdminController(ProductService
39                           productService,
40                           CustomerService
41                           customerService,
42                           CategoryService
43                           categoryService,
44                           PurchaseService
45                           purchaseService) {
46         this.productService = productService;
47         this.customerService = customerService;
48         this.categoryService = categoryService;
49         this.purchaseService = purchaseService;
50     }
51
52     @PostMapping("add-new-product")
53     public Products addProduct(@RequestBody
54                                 ProductJSONFilter productFilter, @
55                                 AuthenticationPrincipal ApplicationUserDetails
56                                 details) {
57         /*Object principal = SecurityContextHolder.
58          getContext().getAuthentication().getPrincipal();
59         Long userID = ((ApplicationUserDetails)
60         principal).getuserID();*/
61         Products product = new Products(productFilter
62                                         .getCategoryId(), productFilter.getName(),
63                                         productFilter.getPrice());
64         product.setAdmin(new Customers(details.
65                                         getUserID()));
66         return this.productService.addNewProduct(
67             product);
68     }
69
70     @Validated
71     @PostMapping("add-new-category")
72     public Category addNewCategory(@Valid @
73                                   RequestBody CategoryJSONMapper categoryMapper,
74                                   @
75                                   AuthenticationPrincipal ApplicationUserDetails
76                                   details) {
77         Category category = new Category(details.
78                                         getUserID(), categoryMapper.getName());
79         //category.setAdmin(new Customers(details.
```

```
62     getUserID())));
63         return this.categoryService.addNewCategory(
64             category);
65     }
66
67     @GetMapping("get-all-registered-users")
68     public List<Customers> getRegisteredUsers() {
69         return this.customerService.
70             getAllRegisteredUsers();
71     }
72
73     @GetMapping(value = "category/{id}")
74     public Category getCategoryById(@PathVariable
75         Long id) {
76         return this.categoryService.getCategoryById(
77             id);
78     }
79
80     @GetMapping("category/get-all-categories")
81     public List<Category> getAddCategories() {
82         return this.categoryService.
83             getAllCategories();
84     }
85
86     @GetMapping("purchase-summary")
87     public List<Purchase> getPurchaseSummary() {
88         return this.purchaseService.getAllPurchases
89     }
90
91     /*@DeleteMapping("category/delete-category/{id}
92     */
93
94     @DeleteMapping("product/delete-product/{id}")
95     public ResponseEntity deleteProduct(@
PathVariable("id") Long id) {
```

```
96         this.productService.deleteProduct(id);
97         return ResponseEntity.ok("Product " + id + "
98             deleted");
99
100     @DeleteMapping("account/delete-account/{id}")
101     public void deleteAccount(@PathVariable("id")
102         Long id) {
103         this.customerService.softDeleteAccount(id);
104     }
105     @DeleteMapping("category/delete-category/{
106         categoryId}")
107     public void deleteCategory(@PathVariable("
108         categoryId") long id) {
109         this.categoryService.softDeleteCategory(id);
110     }
111     @GetMapping("purchase/filter-purchase-by-
112         category/{id}")
113     public ResponseEntity filterByCategory(@
114         PathVariable("id") Long id) {
115         return ResponseEntity.ok(this.
116             purchaseService.getPurchasesByCategory(id));
117     }
118     @GetMapping("purchase/filter-purchase-by-date/{
119         date}")
120     public ResponseEntity filterByCategory(@
121         PathVariable("date") @DateTimeFormat(pattern = "
122             yyyy-MM-dd") LocalDate date) {
123         System.out.println("localDate " + date);
124         return ResponseEntity.ok(this.
125             purchaseService.filterPurchaseByDate(date));
126     }
127 }
```

```
1 package com.sportshoes.ecom.controllers;
2
3 import com.sportshoes.ecom.entity.Customers;
4 import com.sportshoes.ecom.entity.JSONMappers.
5     customerMapper;
6 import com.sportshoes.ecom.entity.Products;
7 import com.sportshoes.ecom.exceptions.
8     ProductNotFoundException;
9 import com.sportshoes.ecom.services.CustomerService;
10 import com.sportshoes.ecom.services.ProductService;
11 import org.springframework.beans.factory.annotation.
12     Autowired;
13 import org.springframework.http.ResponseEntity;
14 import org.springframework.web.bind.annotation.*;
15
16 @RestController
17 @RequestMapping("/api")
18 public class PublicController {
19
20     private ProductService productService;
21     private CustomerService customerService;
22
23     @Autowired
24     public PublicController(ProductService
25         productService, CustomerService customerService) {
26         this.productService = productService;
27         this.customerService = customerService;
28     }
29
30     @GetMapping(value = "product/{id}")
31     public Products getProductId(@PathVariable("id"
32         ) Long id) {
33         Products product = productService.
34             findProductById(id);
35         if(product == null)
36             throw new ProductNotFoundException("
37             Product with " + id + " Not found" );
38         return product;
39     }
40
41     @GetMapping("products")
```

```
38     public List<Products> getAllProducts() {
39         return productService.getAllProducts();
40     }
41
42     @GetMapping("products/search-by-category/{id}")
43     public List<Products> filterProductsByCategory(@
PathVariable("id") long id) {
44         return productService.getProductsByCategory(
45             id);
46     }
47
48     @PostMapping("register")
49     public ResponseEntity<String> AddCustomer(@Valid
@RequestBody CustomerMapper customer) {
50         Customers customerEntity = this.
51         customerService.addNewCustomer(customer.mapToCustomer
52             ());
53         return ResponseEntity.ok("Registration
54             success\n " + customerEntity);
```

```
1 package com.sportshoes.ecom.controllers;
2
3 import com.fasterxml.jackson.core.
4 JsonProcessingException;
5 import com.fasterxml.jackson.databind.ObjectMapper;
6 import com.sportshoes.ecom.entity.Cart;
7 import com.sportshoes.ecom.entity.Customers;
8 import com.sportshoes.ecom.entity.Products;
9 import com.sportshoes.ecom.entity.Purchase;
10 import com.sportshoes.ecom.exceptions.
11 ProductNotFoundException;
12 import com.sportshoes.ecom.security.
13 ApplicationUserDetails;
14 import com.sportshoes.ecom.services.ProductService;
15 import com.sportshoes.ecom.services.PurchaseService;
16 import org.springframework.beans.factory.annotation.
17 Autowired;
18 import org.springframework.http.HttpStatus;
19 import org.springframework.http.ResponseEntity;
20 import org.springframework.security.core.annotation.
21 AuthenticationPrincipal;
22 import org.springframework.security.core.context.
23 SecurityContextHolder;
24 import org.springframework.web.bind.annotation.*;
25
26 import javax.servlet.http.HttpSession;
27 import java.util.*;
28
29 @RestController
30 @RequestMapping("api/customer/products")
31 public class ProductController {
32     private final PurchaseService purchaseService;
33     private final ProductService productService;
34     @Autowired
35     public ProductController(PurchaseService
36     purchaseService, ProductService productService) {
37         this.purchaseService = purchaseService;
38         this.productService = productService;
39     }
40
41     @PostMapping("add-to-cart")
42     public ResponseEntity<String> buyProduct(@
43     RequestBody Cart newCart,
44
45 }
```

```

36 HttpSession session) {
37     Map<Long, Integer> cart = (Map<Long, Integer>) session.getAttribute("cart");
38     if(cart==null)
39         cart = new HashMap<>();
40     Long price = (Long) session.getAttribute("price");
41     if(price == null)
42         price = 0L;
43     if(!this.productService.findProduct(newCart.
44         getProductId()))
45         throw new ProductNotFoundException("Product " + newCart.getProductId() + " not found");
46     price +=this.productService.getProductPrice(
47         newCart.getProductId());
48     cart.merge(newCart.getProductId(),newCart.
49         getQuantity(),
50             (a,b)->b+newCart.getQuantity());
51     session.setAttribute("cart", cart);
52     session.setAttribute("price", price);
53     return ResponseEntity.ok("product ID" +
54         newCart.getProductId() + " has been added to cart");
55 }
56
57 @GetMapping("view-cart")
58 public ResponseEntity viewCart(HttpSession session
59 ) throws JsonProcessingException {
60     Map<Long, Integer> cart = (Map<Long, Integer>) session.getAttribute("cart");
61     System.out.println("cart " + cart);
62     if(cart == null)
63         return ResponseEntity.ok("Cart is empty");
64     Long price = (Long) session.getAttribute("price");
65     String json = new ObjectMapper().
66         writeValueAsString(cart);
67     return ResponseEntity.ok(json + "\n\n" +
68         "total Price " + price );
69 }
70
71 @PostMapping("buy-product")
72 public ResponseEntity buyProduct(@
73     AuthenticationPrincipal ApplicationUserDetails user,
74     HttpSession session) {

```

```
66         Map<Products, Integer> purchaseBag =new  
67             HashMap<> ();  
68             Map<Long, Integer> cart = (Map<Long, Integer  
>) session.getAttribute("cart");  
69             if(cart == null)  
70                 return ResponseEntity.status(HttpStatus.  
BAD_REQUEST).body("cart is empty");  
71             for (Map.Entry<Long, Integer> entry : cart.  
entrySet()) {  
72                 purchaseBag.put(new Products(entry.getKey  
()),entry.getValue());  
73             }  
74             Purchase purchase = new Purchase();  
75             Long price = (Long) session.getAttribute("br/>price");  
76             purchase.setTotalPrice(price);  
77             purchase.setCustomer(new Customers(user.  
getUserId()));  
78             purchase.setProduct(purchaseBag);  
79             System.out.println(purchase);  
80             this.purchaseService.savePurchase(purchase);  
81             session.setAttribute("cart", null);  
82             session.setAttribute("price", null);  
83             return ResponseEntity.ok("success");  
84         }  
85     }  
86  
87     @GetMapping("/purchase-history")  
88     public List<Purchase> getMyPurchases() {  
89         Object principal = SecurityContextHolder.  
getContext().getAuthentication().getPrincipal();  
90         Long userId = ((ApplicationUserDetails)  
principal).getUserId();  
91         return purchaseService.getAllMyPurchases(  
userId);  
92     }  
93  
94  
95 }  
96 }
```

```
1 package com.sportshoes.ecom.controllers;
2
3 import com.sportshoes.ecom.entity.Customers;
4 import com.sportshoes.ecom.entity.JSONMappers.
5     customerMapper;
6 import com.sportshoes.ecom.entity.Products;
7 import com.sportshoes.ecom.exceptions.
8     ProductNotFoundException;
9 import com.sportshoes.ecom.security.
10    ApplicationUserDetails;
11 import com.sportshoes.ecom.services.CustomerService;
12 import com.sportshoes.ecom.services.ProductService;
13 import org.springframework.beans.factory.annotation.
14     Autowired;
15 import org.springframework.http.ResponseEntity;
16 import org.springframework.security.core.annotation.
17     AuthenticationPrincipal;
18 import org.springframework.validation.annotation.
19     Validated;
20 import org.springframework.web.bind.annotation.*;
21 import javax.validation.Valid;
22 import java.util.List;
23
24 @RestController
25 @RequestMapping("api/customer")
26 @Validated
27 public class CustomerController {
28     private final CustomerService customerService;
29     private final ProductService productService;
30     @Autowired
31     public CustomerController(CustomerService
32         customerService, ProductService productService) {
33         this.customerService = customerService;
34         this.productService = productService;
35     }
36
37     @PostMapping("/change-password")
38     public ResponseEntity<?> changeMyPassword(@
39         RequestBody String newPassword) {
40         String password = this.customerService.
41             changePassword(newPassword, 1L);
42         return ResponseEntity.ok("Password changed: "
43             + password);
44     }
45 }
```

```
35
36
37     /*@PostMapping("register")
38     public ResponseEntity<String> AddCustomer(@Valid
39         @RequestBody customerMapper customer) {
40         Customers customerEntity = this.
41         customerService.addNewCustomer(customer.mapToCustomer
42             ());
43         return ResponseEntity.ok("Registration
44             success\n " + customerEntity);
45     }*/
46     /*@GetMapping(value = "product/{id}")
47     public Products getProductId(@PathVariable("id"
48         ) Long id) {
49         Products product = productService.
50         findProductById(id);
51         if(product == null)
52             throw new ProductNotFoundException("
53             Product with " + id + " Not found" );
54         return product;
55     }*/
56     /*@GetMapping("products")
57     public List<Products> getAllProducts() {
58         return productService.getAllProducts();
59     }*/
60
61
62 }
63
```

```
1 spring.datasource.url=jdbc:postgresql://localhost:  
5432/sports_prod  
2 spring.datasource.username=postgres  
3 spring.datasource.password=root  
4 spring.jpa.hibernate.ddl-auto=create-drop  
5 spring.jpa.generate-ddl=true  
6 spring.jpa.show-sql=true  
7
```