**Method Design**

**Class Name**: Customer



**Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Remark** |
| 1 | EditProfile() | This method uses for edit the user’s profile. | **Return Type**: void  **Parameters:** None |
| 2 | selectProductToCart() | This method uses for selecting the product into shopping cart. | **Return Type**: void  **Parameters:** None |
| 3 | searchProduct() | This method uses for searching the product | **Return Type**: void  **Parameters:** None |

**Class Name**: Admin



**Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Remark** |
| 1 | ViewHistoryByCustomerID() | This method uses for view the user’s history by using user’s id from database. | **Return Type**: void  **Parameters:** None |

**Class Name**: ProductController



**Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Remark** |
| 1 | Search() | This method uses for searching the product from database. | **Return Type**: String  **Parameters:** keyword, model |
| 2 | addProduct() | This method uses for adding the product into database. | **Return Type**: String  **Parameters:** product, bindingResult, model |
| 3 | editProduct() | This method uses for editing the details of the product from database. | **Return Type**: String  **Parameters:** PID, model |
| 4 | removeProduct() | This method uses for removing the product from database. | **Return Type**: String  **Parameters:** PID, model |
| 5 | callProduct() | This method uses for calling the product from database. | **Return Type**: String  **Parameters:** model |
| 6 | productList() | This method uses for showing the entire of product list from database. | **Return Type**: String  **Parameters:** model |

**Class Name**: ProductServiceImpl



**Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Remark** |
| 1 | getProduct() | This method uses for getting the product from database. | **Return Type**: Product  **Parameters:** None |
| 2 | getProductByid() | This method uses for getting the product from database by using product’s id. | **Return Type**: Product  **Parameters:** ID |
| 3 | getProductByKeyword() | This method uses for getting the product from database by using product’s keyword. | **Return Type**: String  **Parameters:** keyword |
| 4 | addProduct() | This method uses for adding the product and details into database. | **Return Type**: void  **Parameters:** product |
| 5 | removeProduct() | This method uses for removing the product from database. | **Return Type**: void  **Parameters:** product |

**Class Name**: ProductDAO



**Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Remark** |
| 1 | getProduct() | This method uses for getting the product from database. | **Return Type**: Product  **Parameters:** None |
| 2 | getProductByid() | This method uses for getting the product from database by using product’s id. | **Return Type**: Product  **Parameters:** ID |
| 3 | getProductByKeyword() | This method uses for getting the product from database by using product’s keyword. | **Return Type**: String  **Parameters:** keyword |
| 4 | addProduct() | This method uses for adding the product and details into database. | **Return Type**: void  **Parameters:** product |
| 5 | removeProduct() | This method uses for removing the product from database. | **Return Type**: void  **Parameters:** product |

**Class Name**: ProductDAOImpl



**Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Remark** |
| 1 | getProduct() | This method uses for getting the product from database. | **Return Type**: Product  **Parameters:** None |
| 2 | getProductByid() | This method uses for getting the product from database by using product’s id. | **Return Type**: Product  **Parameters:** ID |
| 3 | getProductByKeyword() | This method uses for getting the product from database by using product’s keyword. | **Return Type**: String  **Parameters:** keyword |
| 4 | addProduct() | This method uses for adding the product and details into database. | **Return Type**: void  **Parameters:** product |
| 5 | removeProduct() | This method uses for removing the product from database. | **Return Type**: void  **Parameters:** product |

**Class Name**: ShoppingCartContriller



**Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Remark** |
| 1 | getTotalPrice() | This method uses for getting the total price of transaction from database. | **Return Type**: String  **Parameters:** shoppingCart, model |
| 2 | getAllProductInCart() | This method uses for getting the entire of product in shopping cart from database. | **Return Type**: String  **Parameters:** cartID, model |
| 3 | addProductToCart() | This method uses for adding the product into shopping cart. | **Return Type**: String  **Parameters:** PID, model |
| 4 | removeProductFromCart() | This method uses for removing the product and details from shopping cart. | **Return Type**: String  **Parameters:** PID, model |

**Class Name**: ShoppingCartService



**Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Remark** |
| 1 | getShoppingCart() | This method uses for getting the shopping cart to database. | **Return Type**: ShoppingCart  **Parameters:** cartID |
| 2 | getShoppingCartByUsername() | This method uses for getting the shopping cart by using the username from database. | **Return Type**: Customer  **Parameters:** username |
| 3 | addProductToCart() | This method uses for adding the product into shopping cart. | **Return Type**: void  **Parameters:** PID |
| 4 | removeProductFromCart() | This method uses for removing the product and details from shopping cart. | **Return Type**: void  **Parameters:** PID |

**Class Name**: ShoppingCartDAOImpl



**Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Remark** |
| 1 | getShoppingCart() | This method uses for getting the shopping cart to database. | **Return Type**: ShoppingCart  **Parameters:** cartID |
| 2 | getShoppingCartByUsername() | This method uses for getting the shopping cart by using the username from database. | **Return Type**: Customer  **Parameters:** username |
| 3 | addProductToCart() | This method uses for adding the product into shopping cart. | **Return Type**: void  **Parameters:** PID |
| 4 | removeProductFromCart() | This method uses for removing the product and details from shopping cart. | **Return Type**: void  **Parameters:** PID |

**Class Name**: ShoppingCart



**Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Remark** |
| 1 | setCheckoutStatus() | This method uses for setting the checkout status from database. | **Return Type**: void  **Parameters:** None |
| 2 | getCheckout() | This method uses for getting the checkout status from database. | **Return Type**: Int  **Parameters:** None |

**Class Name**: HistoryController



**Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Remark** |
| 1 | getHistoryByID() | This method uses for getting the history by using id from database. | **Return Type**: String  **Parameters:** HID, model |
| 2 | getHistoryByUsername() | This method uses for getting the history by using username from database. | **Return Type**: String  **Parameters:** username, model |
| 3 | getHistoryByDate() | This method uses for getting the history by using date from database. | **Return Type**: String  **Parameters:** date, model |
| 4 | CallHistoryPage() | This method uses for calling the history page from database. | **Return Type**: String  **Parameters:** model |
| 5 | addCartToHistory | This method uses for adding the shopping cart into the history in database. | **Return Type**: String  **Parameters:** cartID, model |

**Class Name**: HistoryService

**Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Remark** |
| 1 | getHistoryByID() | This method uses for getting the history by using id from database. | **Return Type**: History  **Parameters:** ID |
| 2 | getHistoryByUsername() | This method uses for getting the history by using username from database. | **Return Type**: ShoppingCart  **Parameters:** username |
| 3 | getHistoryByDate() | This method uses for getting the history by using date from database. | **Return Type**: ShoppingCart  **Parameters:** date |
| 4 | addCart | This method uses for adding the shopping cart into database. | **Return Type**: void  **Parameters:** cartID |

**Class Name**: HistoryServiceImpl



**Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Remark** |
| 1 | getHistoryByID() | This method uses for getting the history by using id from database. | **Return Type**: History  **Parameters:** ID |
| 2 | getHistoryByUsername() | This method uses for getting the history by using username from database. | **Return Type**: ShoppingCart  **Parameters:** username |
| 3 | getHistoryByDate() | This method uses for getting the history by using date from database. | **Return Type**: ShoppingCart  **Parameters:** date |
| 4 | addCart | This method uses for adding the shopping cart into database. | **Return Type**: void  **Parameters:** cartID |

**Class Name**: HistoryDAO



**Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Remark** |
| 1 | getHistoryByID() | This method uses for getting the history by using id from database. | **Return Type**: History  **Parameters:** ID |
| 2 | getHistoryByUsername() | This method uses for getting the history by using username from database. | **Return Type**: ShoppingCart  **Parameters:** username |
| 3 | getHistoryByDate() | This method uses for getting the history by using date from database. | **Return Type**: ShoppingCart  **Parameters:** date |
| 4 | addCart | This method uses for adding the shopping cart into database. | **Return Type**: void  **Parameters:** cartID |

**Class Name**: HistoryDAOImpl



**Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Remark** |
| 1 | getHistoryByID() | This method uses for getting the history by using id from database. | **Return Type**: History  **Parameters:** ID |
| 2 | getHistoryByUsername() | This method uses for getting the history by using username from database. | **Return Type**: ShoppingCart  **Parameters:** username |
| 3 | getHistoryByDate() | This method uses for getting the history by using date from database. | **Return Type**: ShoppingCart  **Parameters:** date |
| 4 | addCart | This method uses for adding the shopping cart into database. | **Return Type**: void  **Parameters:** cartID |