

Mobile Store Management Report

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Lớp: PRJ301_3W_04

Môn: RPJ301

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I. Overview

1. Introduction

- _User (tbl_User): Users accessing the platform are classified into different roles, differentiated by their role. This allows to differentiate between regular users, employees(staff) and managers.
- _ MobileProduct(tbl_Mobile): This table holds comprehensive information about the mobile available for purchase on the website. Each mobile is uniquely identified by an mobileId and includes details such as description, price, mobileName, yearOfProduction, image, quantity, notSale.
- _ Bill Order (tbl_Order): Whenever a user completes a purchase, a bill is generated and stored in this table. It records transaction details such as the user, total amount, and purchase date.
- _ Bill Order Detail (tbl_OrderDetail): bill orderdetails for large quantity orders. It details for large quantity orders. It records transaction details such as orderID, which items were purchased in what quantity and its total.
- _ Cart (Hash Map): The cart feature enables users to gather selected mobiles for purchase. It acts as a temporary storage space for items a user intends to buy.

The website functionality allows users to seamlessly navigate through available mobiles, add desired items to their cart, and continue the purchasing process. Once a purchase is completed, an invoice will be automatically generated for the transaction. Employees (Staffs) and Managers, in addition to the functions available to regular users, also have advanced privileges such as adding new mobile phones to the store or removing existing ones. Manager can manage users who delete and update information.

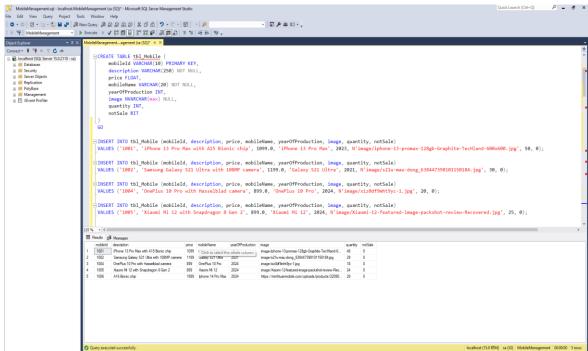
2. Database

_Database Name: MobileManagement

+ tbl_User

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+ tbl_Earring



+ tbl_Order

+tbl_Bill_Detail

3. MVC2 model

Model: This component represents the data structures and business logic of the application. It includes classes such as UserDTO and EarringsDTO, which correspond to database tables and hold data related to users and mobiles, respectively. Additionally, the model includes Data Access Objects (DAOs) like UserDAO and ProductDAO, which handle database interactions such as querying, updating, and deleting data.

View: The view layer is responsible for presenting the user interface to the user. In your application, this consists of JSP (JavaServer Pages) files such as staff.jsp ,manager.jsp, user.jsp,viewCart.jsp,... These files render data retrieved from the model layer to the user, allowing them to view mobiles, manage their shopping cart, and interact with other features of the application. The view layer also captures user input through forms and other UI elements.

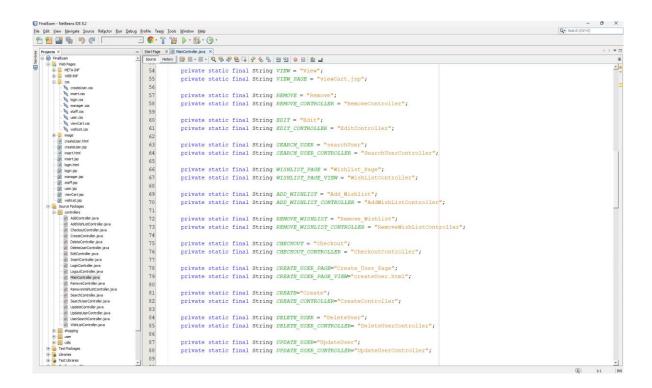
Controller: MainController serves as the core of the MobileManagement application, acting as the first point of contact to receive and coordinate all activities. This is where every user request is handled and shapes the next course of action for the application. The controller acts as an intermediary between the user interface (view) and the data (model). In my application, servlets such as SearchUserController and DeleteController serve as controllers. They receive HTTP requests from the user interface, process the requests by invoking appropriate methods in the model layer (e.g., DAOs), and then determine the appropriate view (JSP) to render the response. Controllers handle user input, perform business logic, and manage the flow of the application.

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                                                                                                                                        public class MainController extends HttpServlet {
                                                                                                                                                                                              private static final String WELCOME="login.html";
                                                                                                                                                      22
                                                                                                                                                                                               private static final String LOGIN="Login";
                                                                                                                                                                                              private static final String LOGIN CONTROLLER= "LoginController";
                                                                                                                                                      25
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56
                                                                                                                                                                                              private static final String SEARCH ="search";
private static final String SEARCH_CONTROLLER="SearchController";
                                                                                                                                                                                            private static final String UPDATE="Update";
private static final String UPDATE_CONTROLLER="UpdateController";
                                                                                                                                                                                              private static final String DELETE="Delete";
private static final String DELETE_CONTROLLER="DeleteController";
                                                                                                                                                                                              private static final String LOGOUT="Logout";
private static final String LOGOUT_CONTROLLER="LogoutController";
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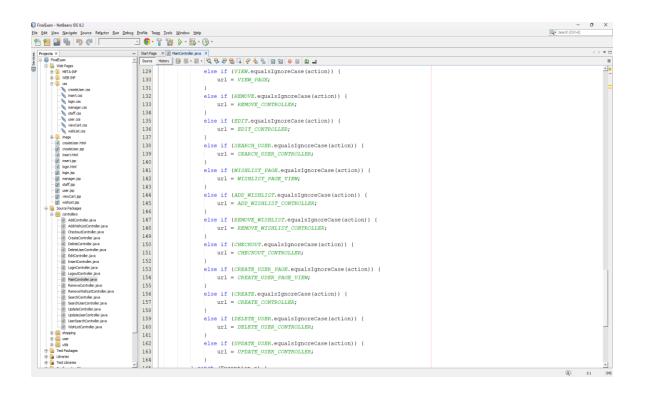
total t
                                                                                                                                                                                              private static final String INSERT="Insert";
private static final String INSERT_CONTROLLER="InsertController";
                                                                                                                                                                                              private static final String INSERT_MOBILE_PAGE="Insert_Mobile_Page";
                                                                                                                                                                                              private static final String INSERT MOBILE PAGE VIEW="insert.html";
                                                                                                                                                                                              private static final String USER = "User";
                                                                                                                                                                                              private static final String USER_PAGE = "user.jsp";
                                                                                                                                                                                              private static final String USER_SEARCH = "userSearch";
                                                                                                                                                                                              private static final String USER SEARCH CONTROLLER = "UserSearchController";
                                                                                                                                                                                               private static final String ADD = "Add";
                                                                                                                                                                                               private static final String ADD_CONTROLLER = "AddController";
                                                                                                                                                                                               private static final String VIEW = "View";
                                                                                                                                                                                               private static final String VIEW_PAGE = "viewCart.jsp";
```



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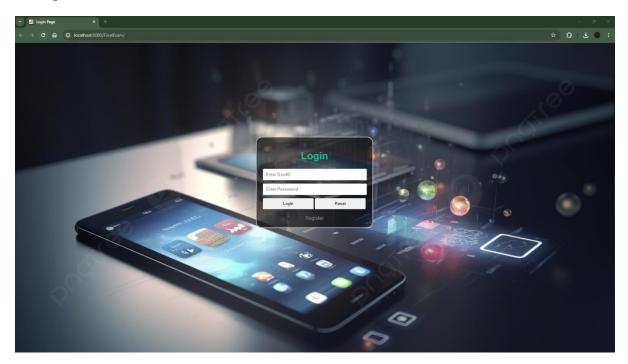
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                                                                                                                                       protected void processRequest(HttpServletRequest request, HttpServletResponse response)
                                                                                                                                                     throws ServletException, IOException {
response.setContentType("text/html; charset=UTF-8");
                                                                                                                                                                String action=request.getParameter("action");
                                                                                                                                                                else if (SEARCH.equalsIgnoreCase(action)) {
                                                                                                      102
103
                                                                                                                                                                            url= SEARCH_CONTROLLER;
                                                                                                      104
                                                                                                      105
106
                                                                                                                                                               else if (UPDATE.equalsIgnoreCase(action)) {
    url= UPDATE_CONTROLLER;
                                                                                                      107
108
                                                                                                                                                               else if (DELETE.equalsIgnoreCase(action)) (
                                                                                                      109
110
                                                                                                                                                                           url= DELETE_CONTROLLER;
                                                                                                                                                                else if (LOGOUT.equalsIgnoreCase(action)) {
                                                                                                      112
113
                                                                                                                                                                           url=LOGOUT_CONTROLLER;
                                                                                                                                                                else if (INSERT.equalsIgnoreCase(action)) {
                                                                                                      114
115
                                                                                                                                                                           url=INSERT_CONTROLLER;
                                                                                                      116
117
                                                                                                                                                                 else if (INSERT_MOBILE_PAGE.equalsIgnoreCase(action)) (
                                                                                                      118
                                                                                                                                                                            url=INSERT MOBILE PAGE VIEW;
                                                                                                      119
120
                                                                                                                                                                else if (USER.equalsIgnoreCase(action)) {
                                                                                                      121
122
                                                                                                                                                                            url = USER PAGE;
                                                                                                                                                                 else if (USER_SEARCH.equalsIgnoreCase(action)) {
                                                                                                      123
                                                                                                      124
                                                                                                                                                                          url = USER_SEARCH_CONTROLLER;
                                                                                                     126
127
                                                                                                                                                                  else if (ADD.equalsIgnoreCase(action)) {
                                                                                                                                                                             url = ADD_CONTROLLER;
```



II. Functional

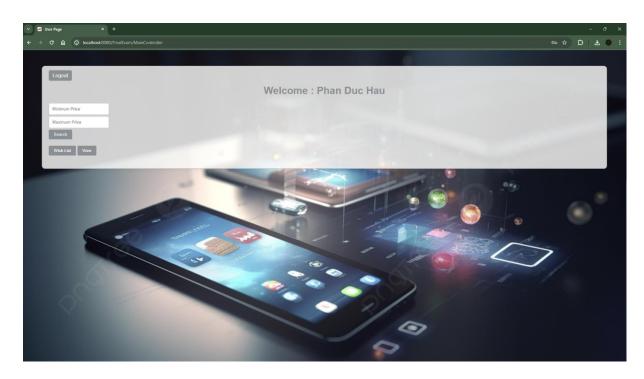
1. Login

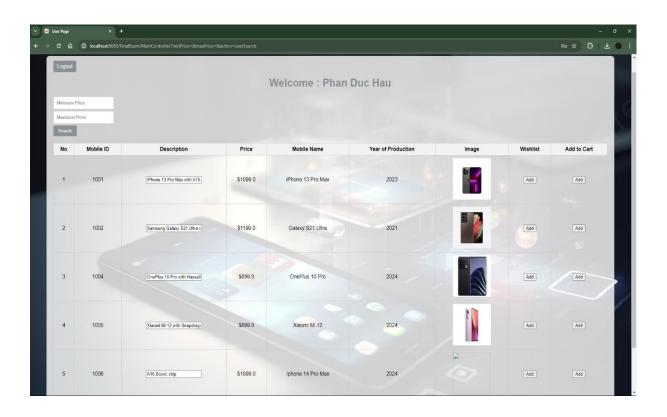


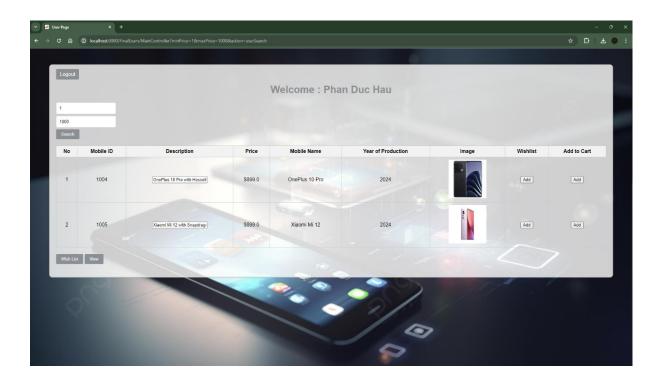
2. Register



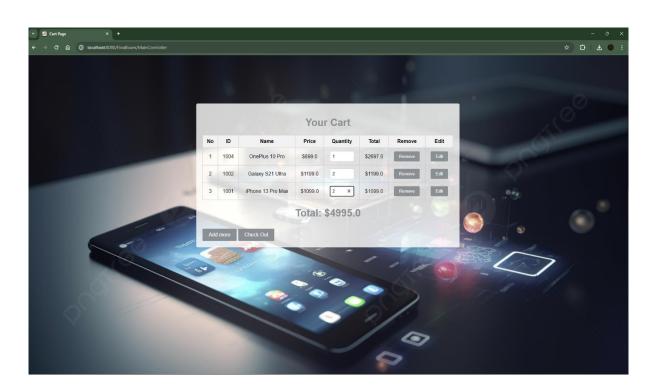
3. User



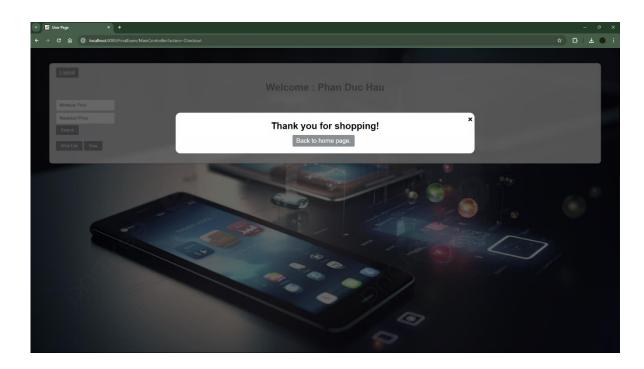




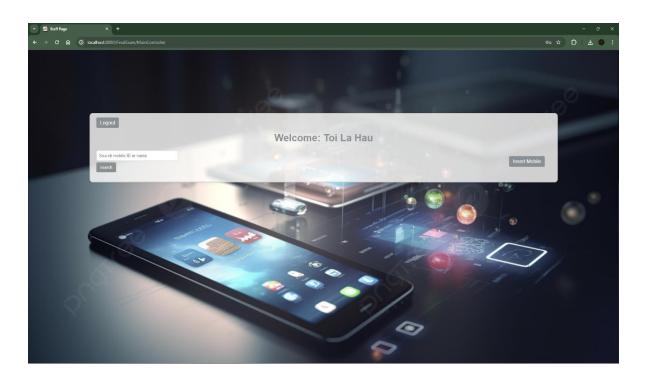
4. Cart

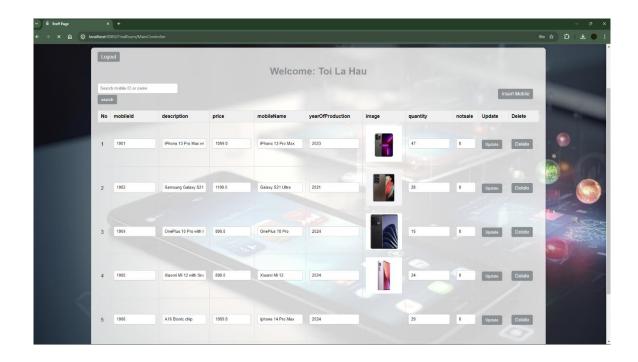


5. Thank you

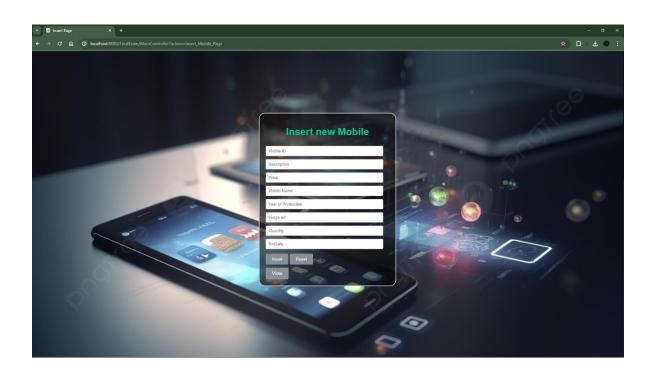


6. Staff Search, Update and Delete





7. Insert new mobile



8. Manager SearchUser, UpdateUser, DeleteUser and Search mobile

