# Chapter 4: Implementation (Coding)

## Introduction

This is the third phase of Structured System Analysis & Design Methodology (SSADM). Here, the system is directly introduced to an organization or run parallel with the existing system unless a new system works successfully.

In this phase, coding is also done. Here design model that shows how our systems look and work is converted into actual products. In the process of coding have used MVC design pattern which separate code into Model, View, and Controller. That directly helps in making code having less coupling and more cohesion.

## 4.1 Importance of coding:

* Coding helps us to write code which is efficient and easy for us to understand, read and write.
* With the help of the coding application, website, and so on are more easy and efficient to understand.

## 4.2 Tools Used:

To complete my project successfully some database software and Integrated Development Environment(IDE) tools are used for storing data and to write code for the development of the website. Which are:

For Database

* Xampp
* MySql

For Integrated Development Environment (IDE)

* NetBeans

## 4.3 Language Used

As for the successful development of my project, I have used different frontend and the backend language which are:

Back end Language:

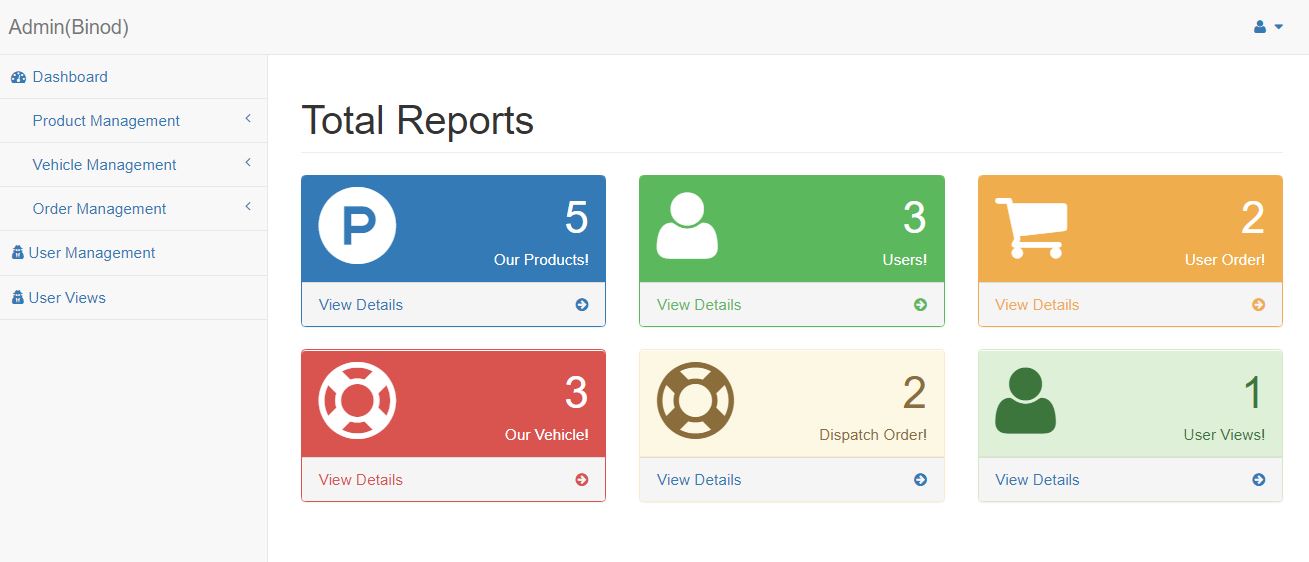
* Java

Font end language:

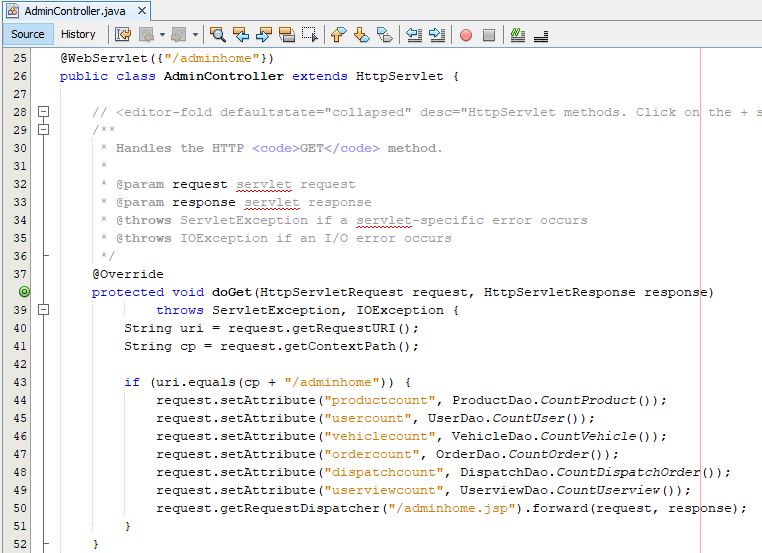
* Hypertext Markup Language (HTML)
* Cascading Style Sheets (CSS)
* Javascript

## 4.4 Codes

Admin Home



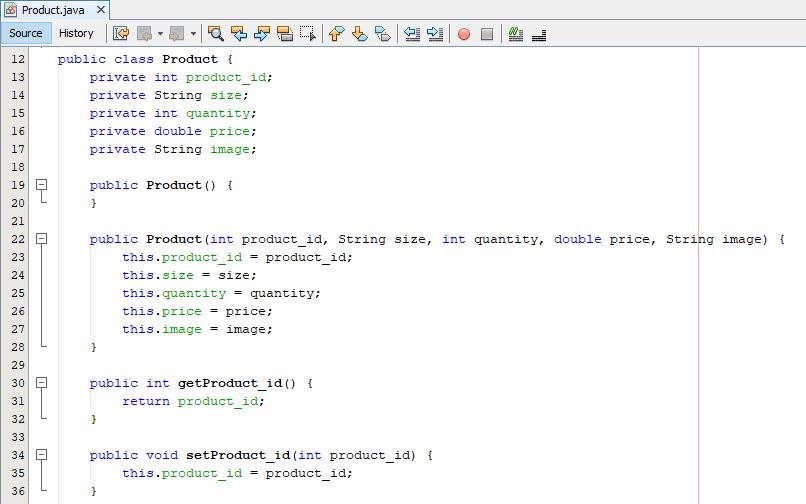
Screenshot: Admin Home

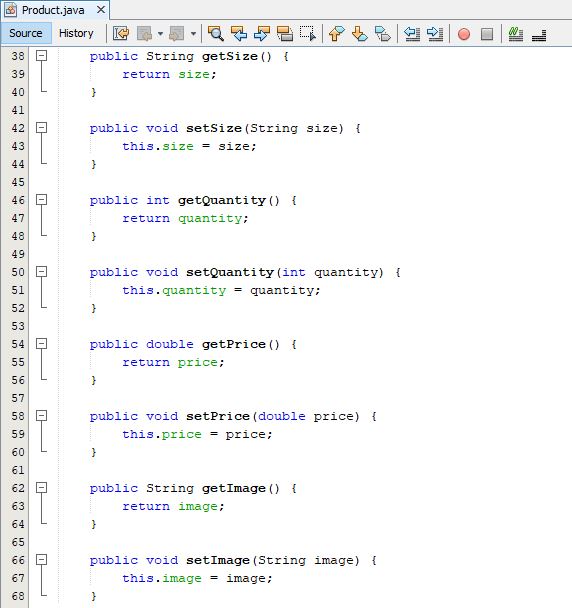


Screenshot: Controller for Admin Home

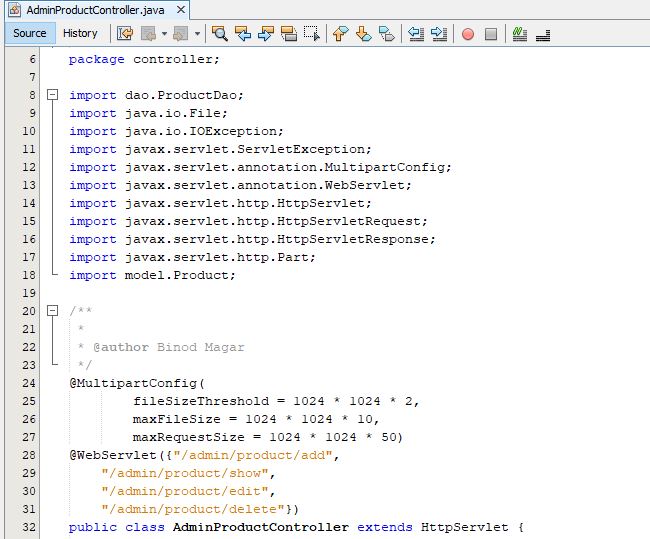
Admin manage product

Model for product



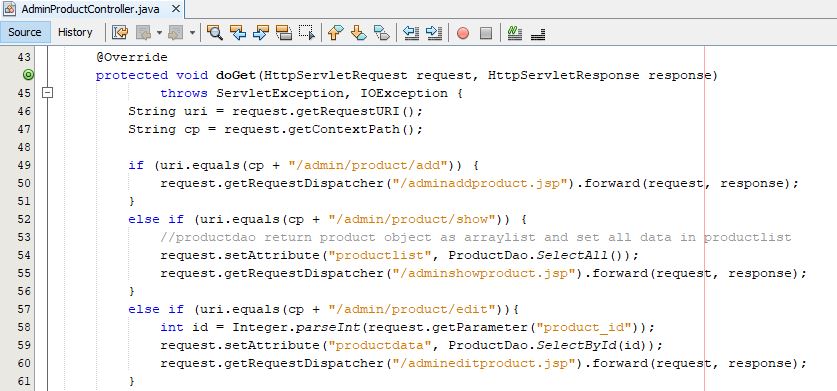


Controller for product



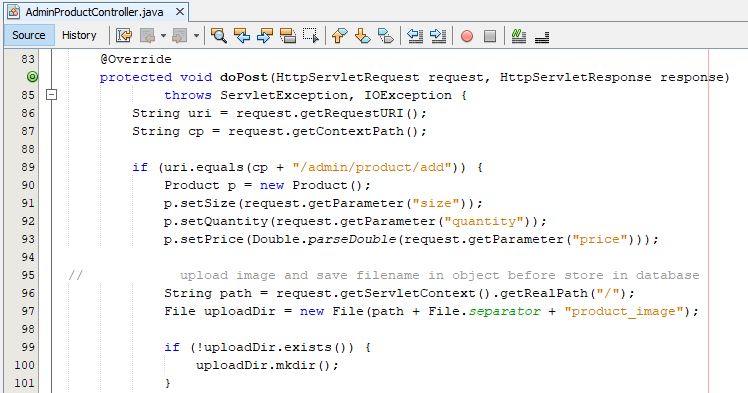
Screenshot: Imported Library and URL(Uniform Resources Locator) pattern for Product Controller

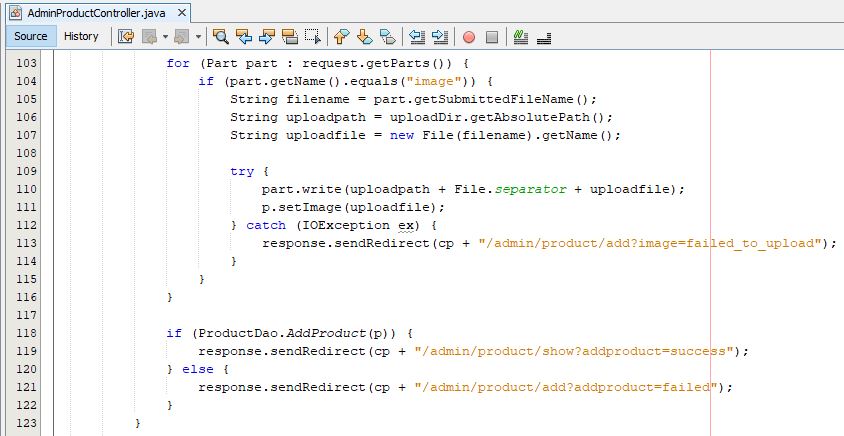
Admin product controller request in doGet and operation performed



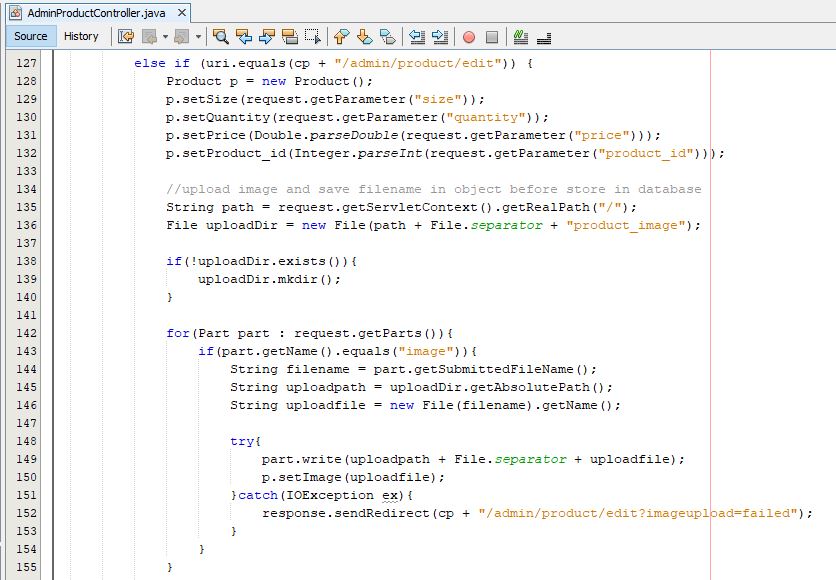


Admin product controller request in doPost and operation performed



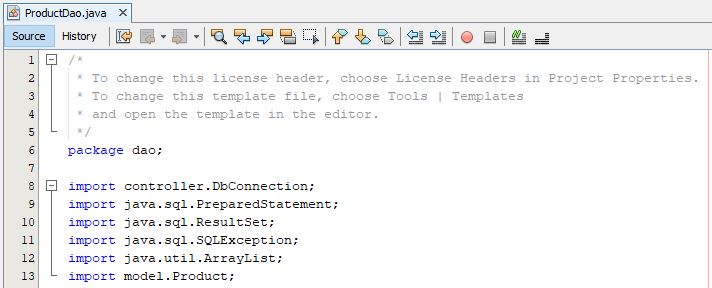


Screenshot: Controller to add product

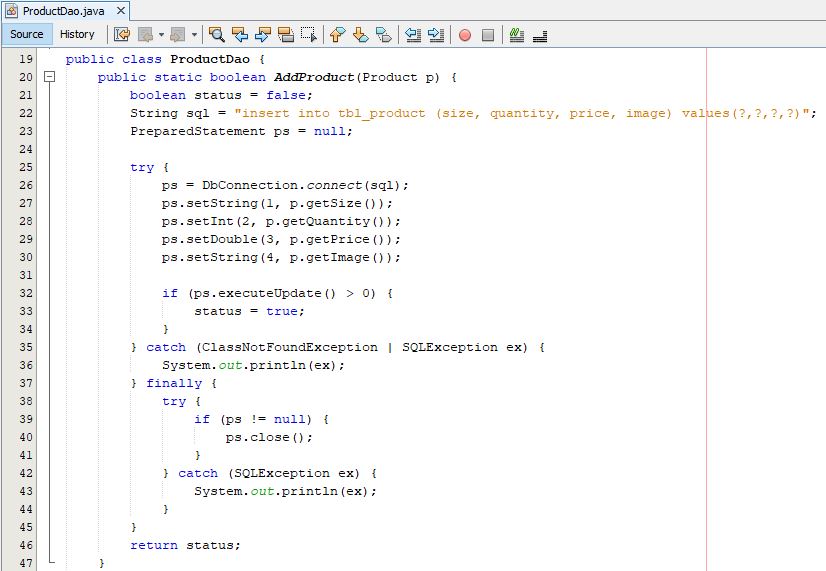


Screenshot: Controller to edit product

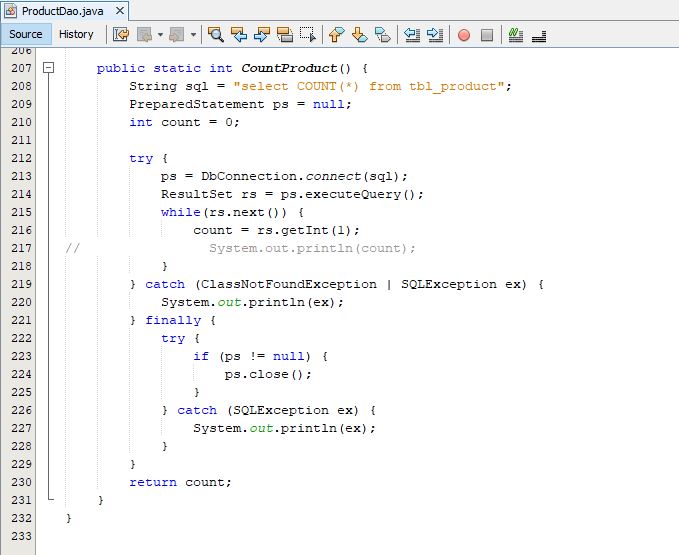
Admin product DAO(Data access object)



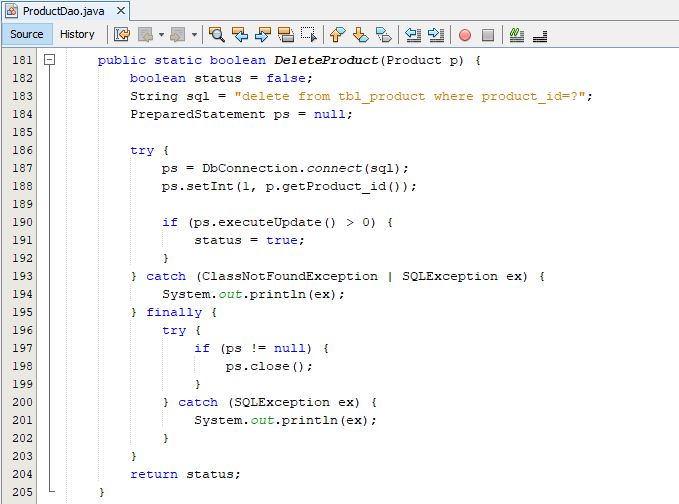
Screenshot: Imported library for productDao



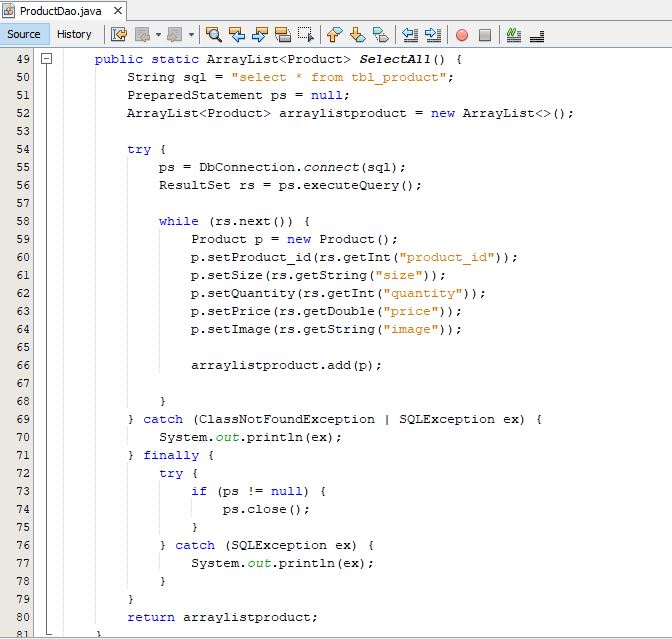
Screenshot: ProductDao of adding of product



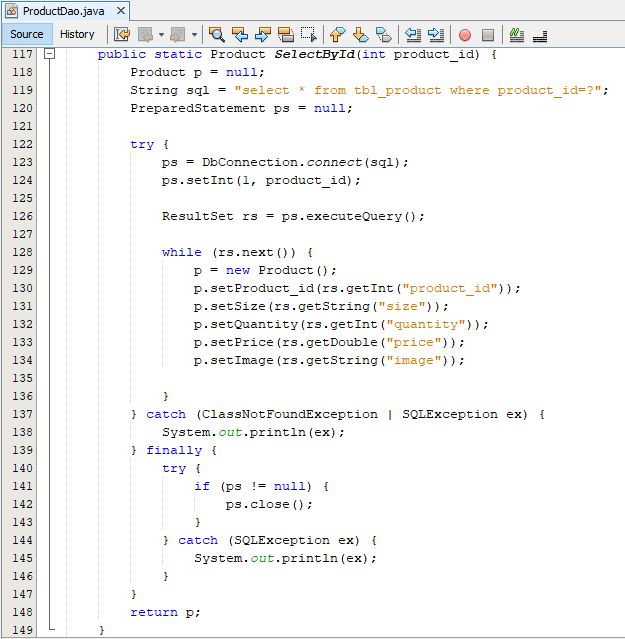
Screenshot: ProductDao for count total product



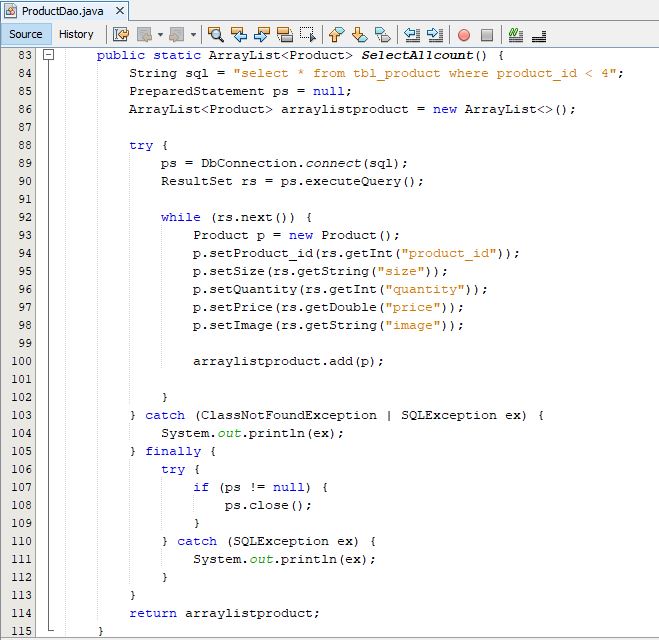
Screenshot: ProductDao to delete product



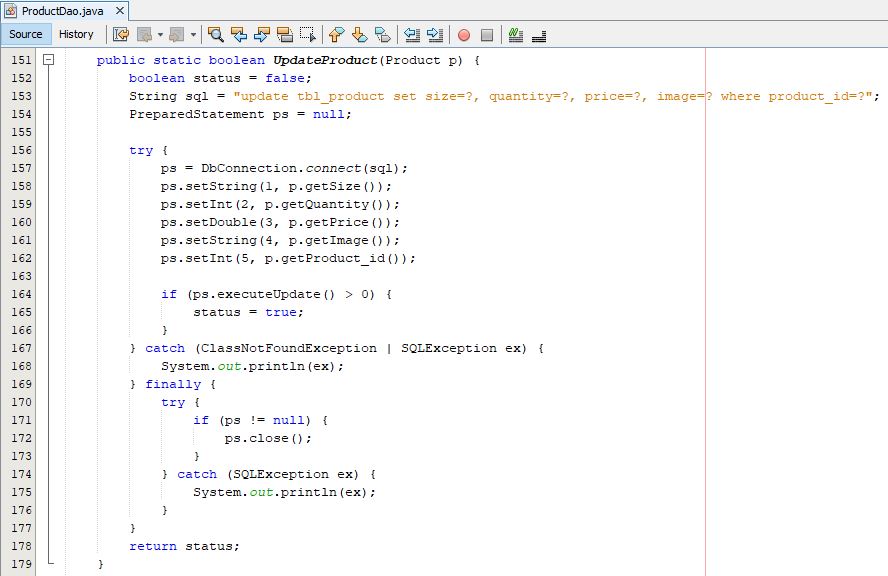
Screenshot: ProductDao to select all product in ArrayList



Screenshot: ProductDao to select product by product id

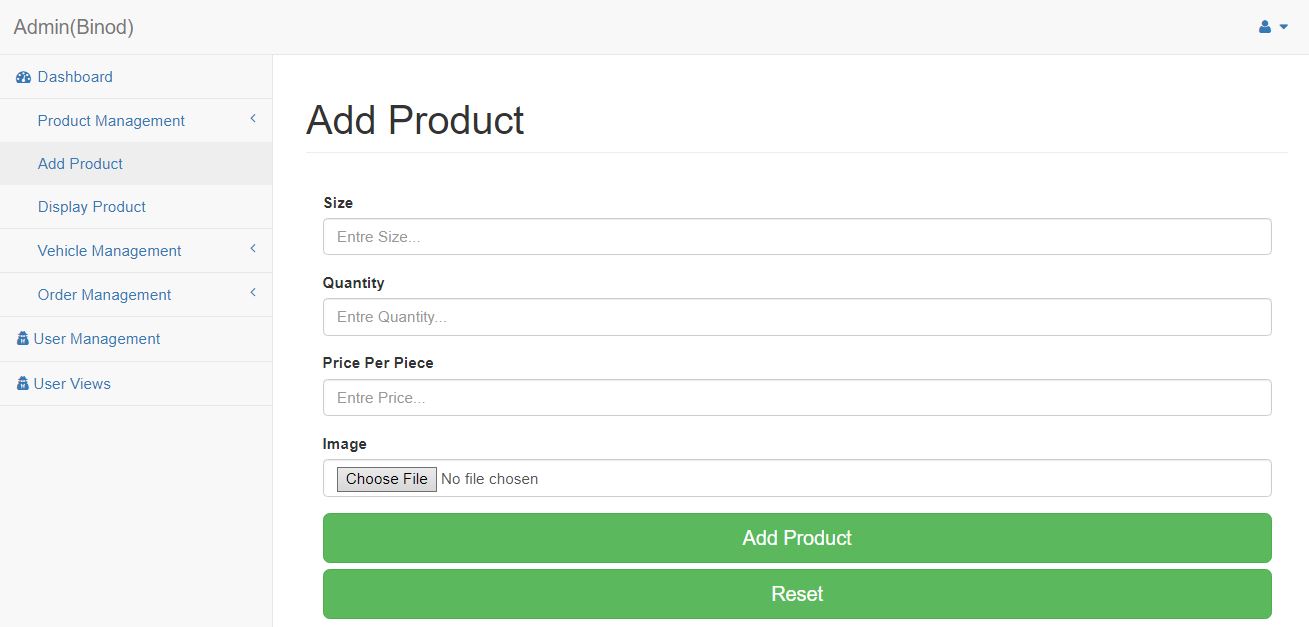


Screenshot: ProductDao for select product id less than 4

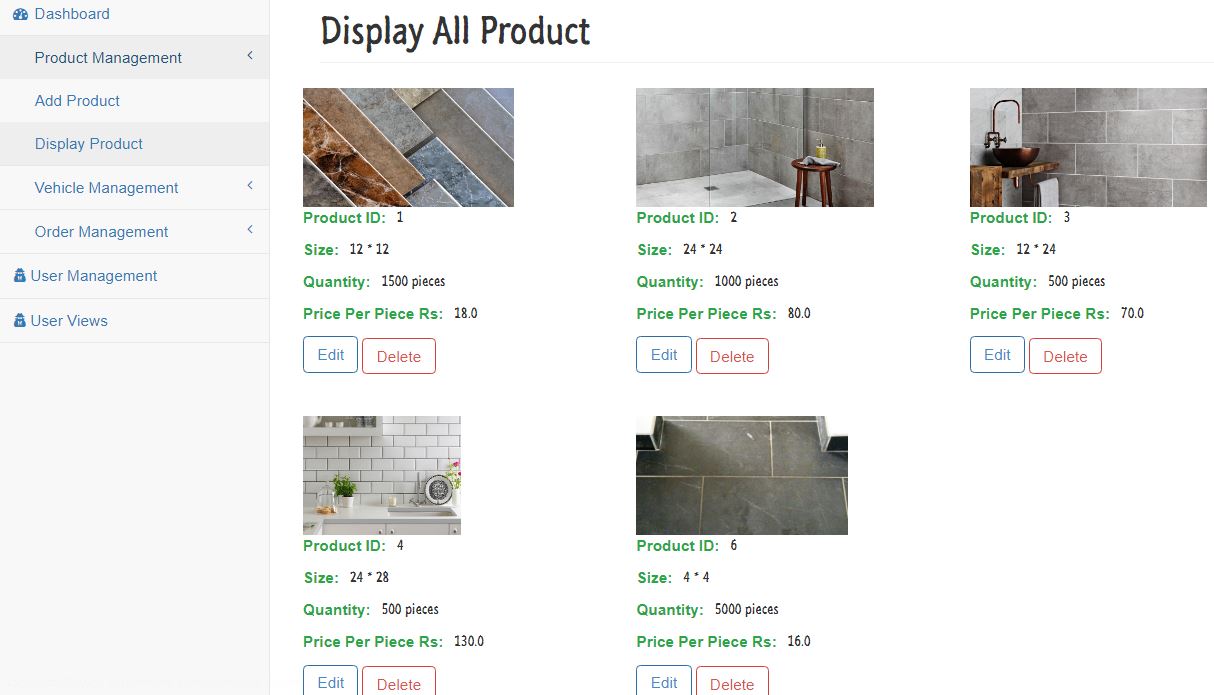


Screenshot: ProductDao to update product

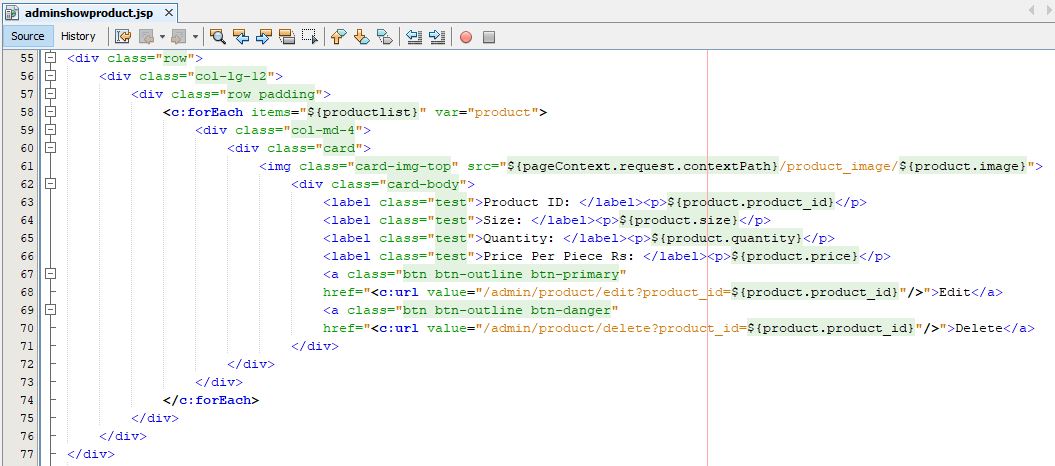
Form for Admin manage product



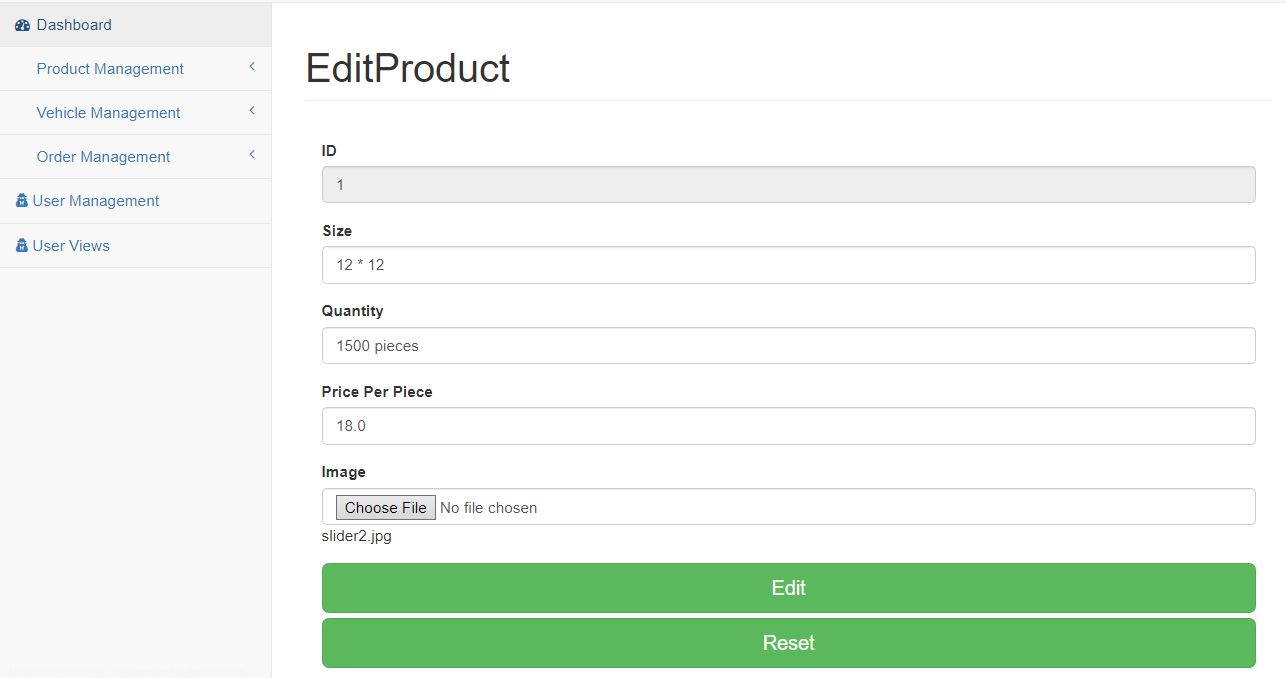
Screenshot: Form for add product



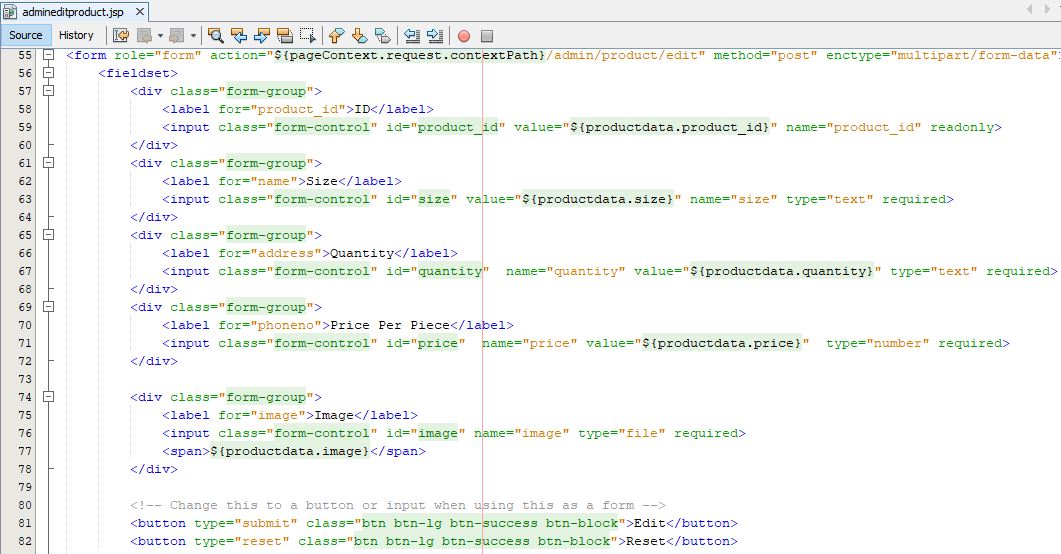
Screenshot: Display of all product



Screenshot: JSP file for display all product



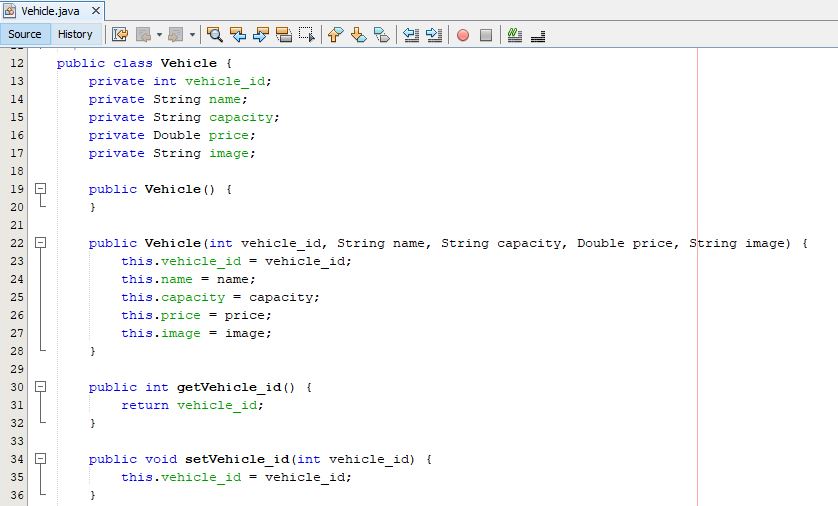
Screenshot: Form to edit a product by admin

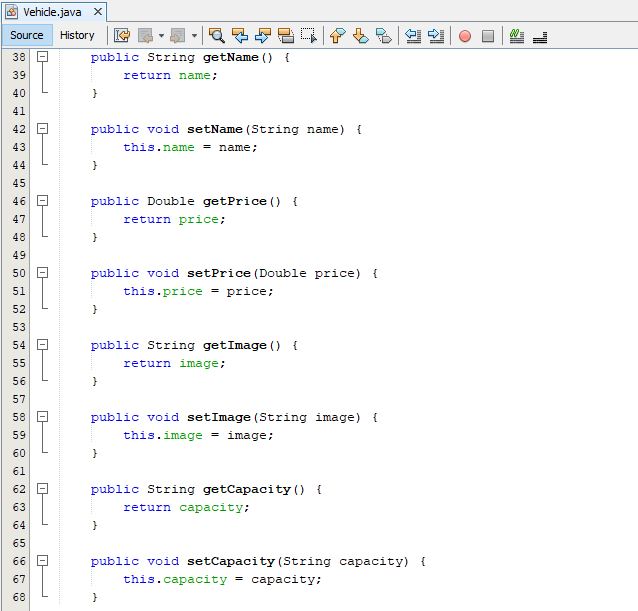


Screenshot: JSP(Java Server Page) to edit product

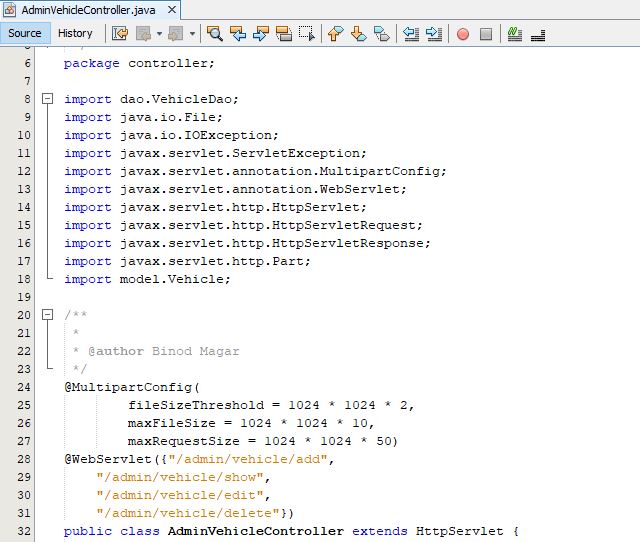
Admin manage vehicle

Model for vehicle



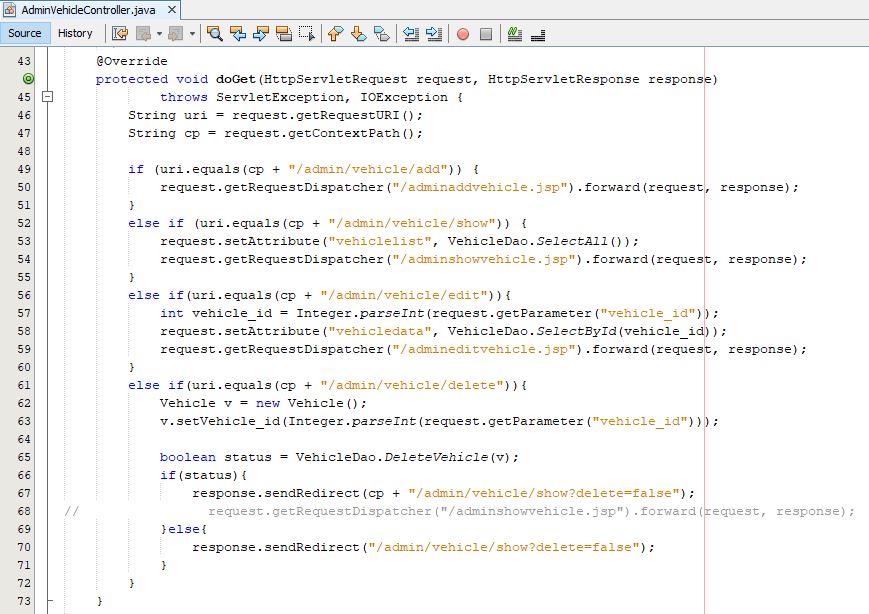


Controller for Vehicle

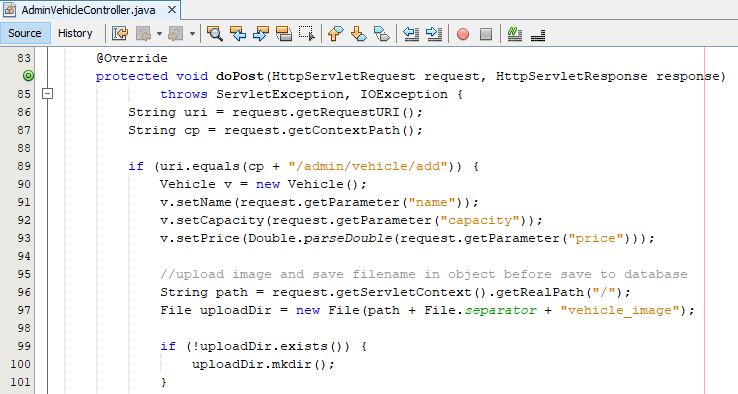


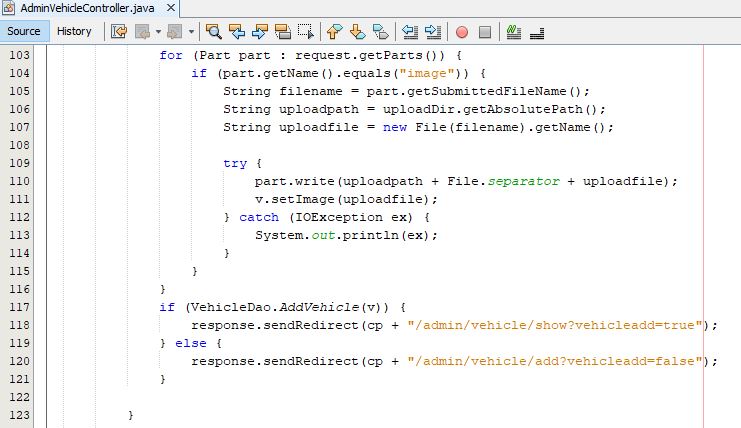
Screenshot: Imported Library and URL(Uniform Resources Locator) for Vehicle Controller

Admin vehicle controller request in doGet and operation performed

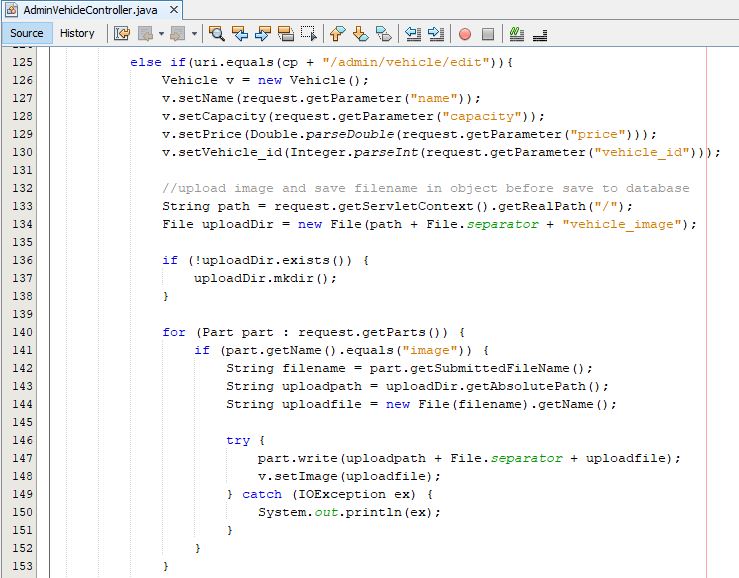


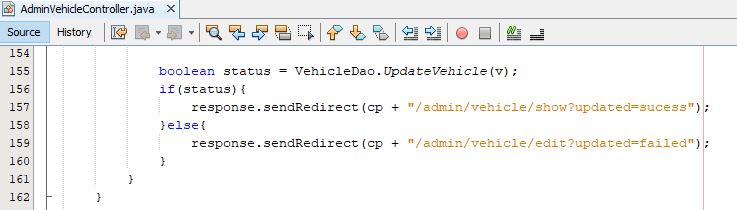
Admin vehicle controller request in doPost and operation performed





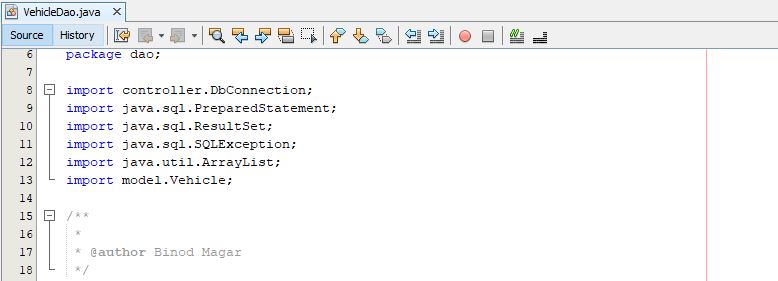
Screenshot: Controller to add vehicle



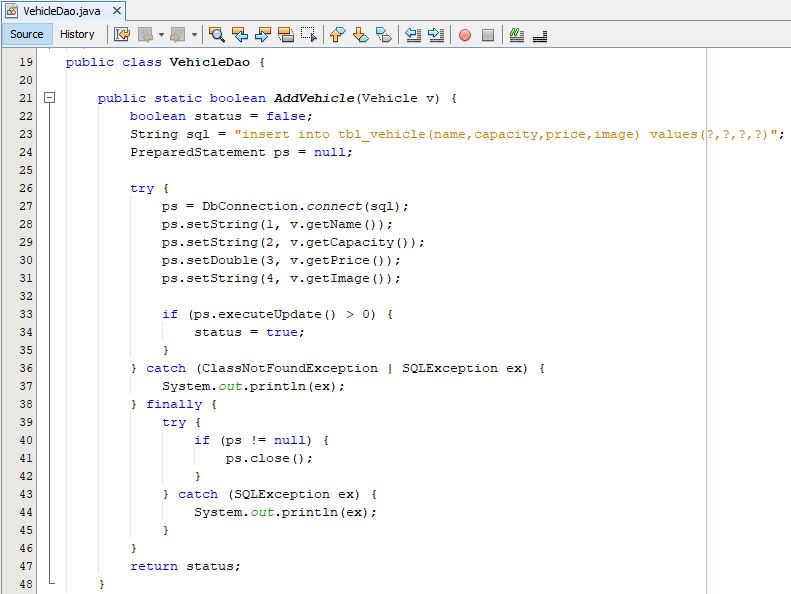


Screenshot: Controller to edit vehicle

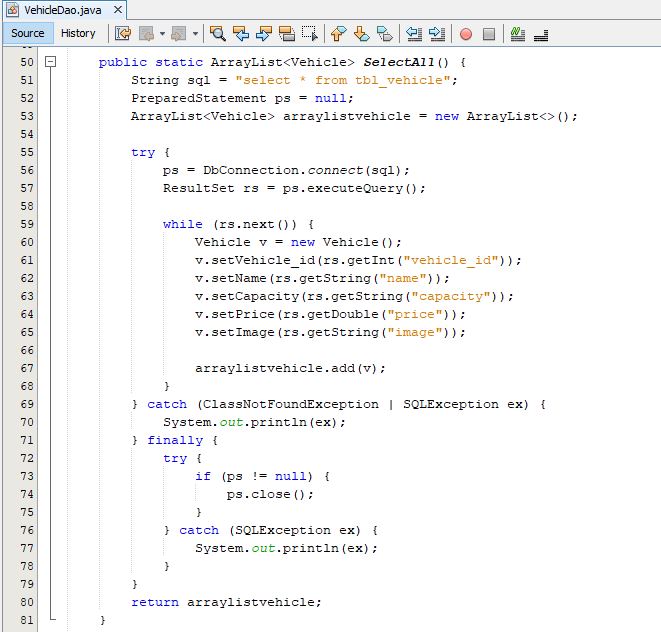
Admin Vehicle Dao(Data access objects)



Screenshot: Imported library for vehicle dao



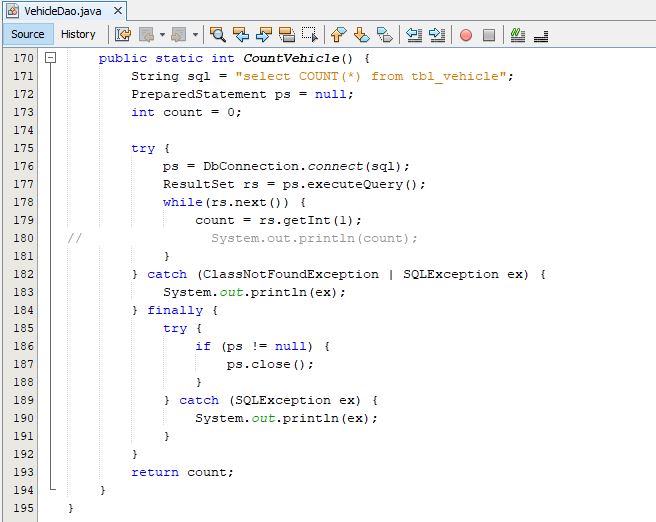
Screenshot: Vehicle dao to add vehicle



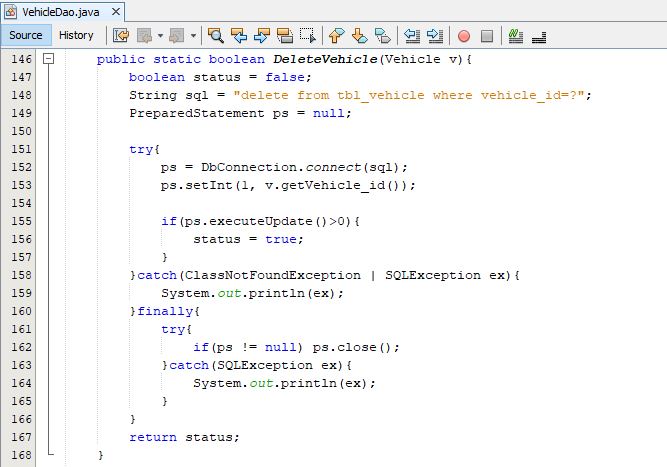
Screenshot: Dao to select all vehicle and store in ArrayList



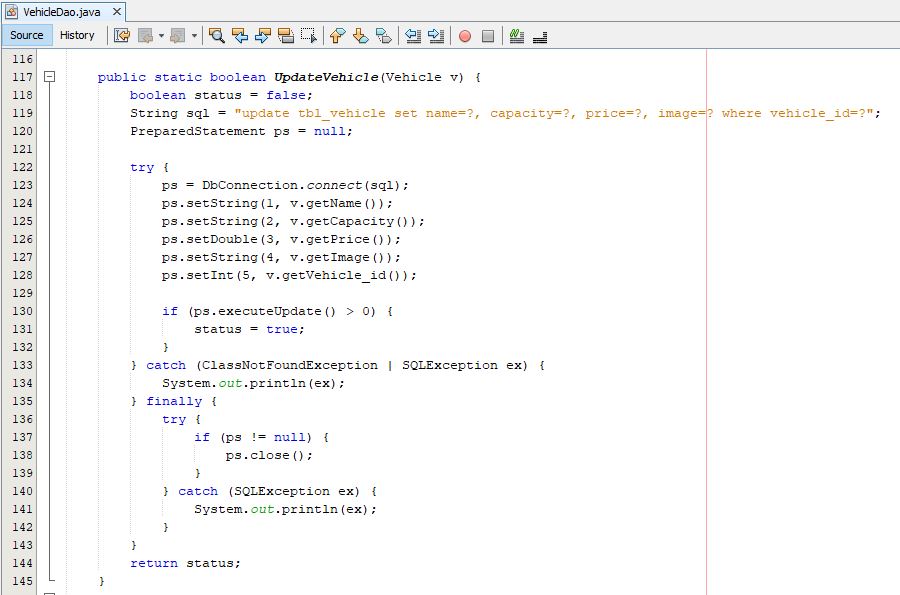
Screenshot: Dao to select vehicle by vehicle id



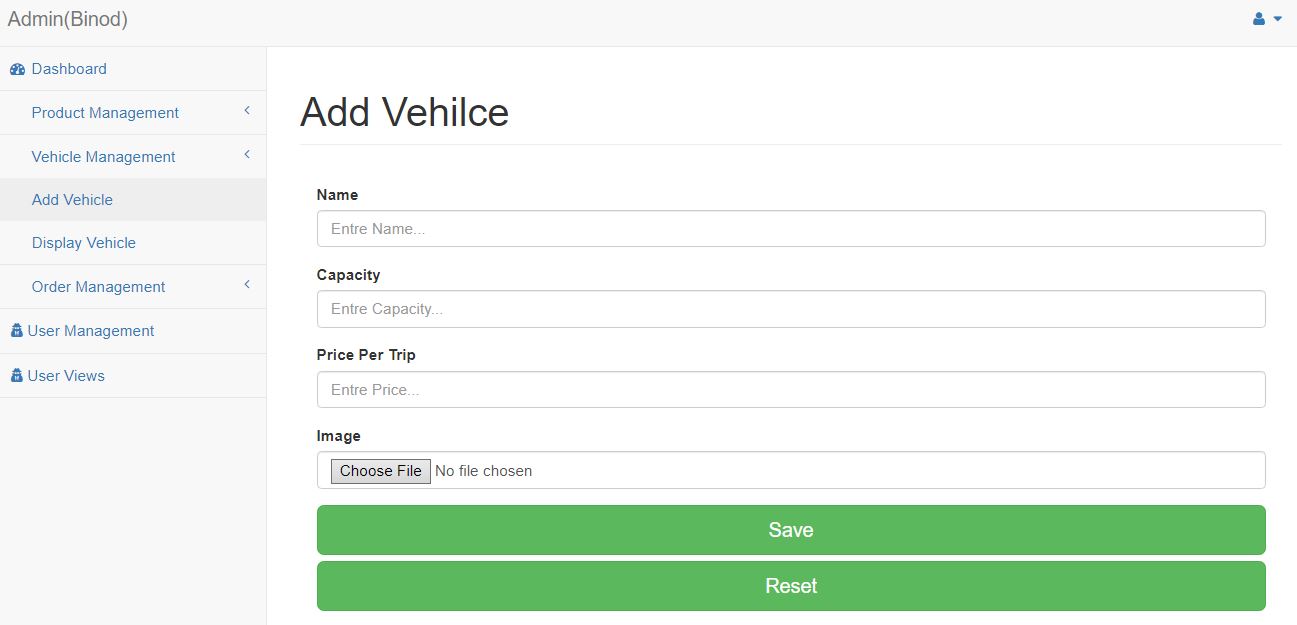
Screenshot: Vehicle dao to count all vehicle



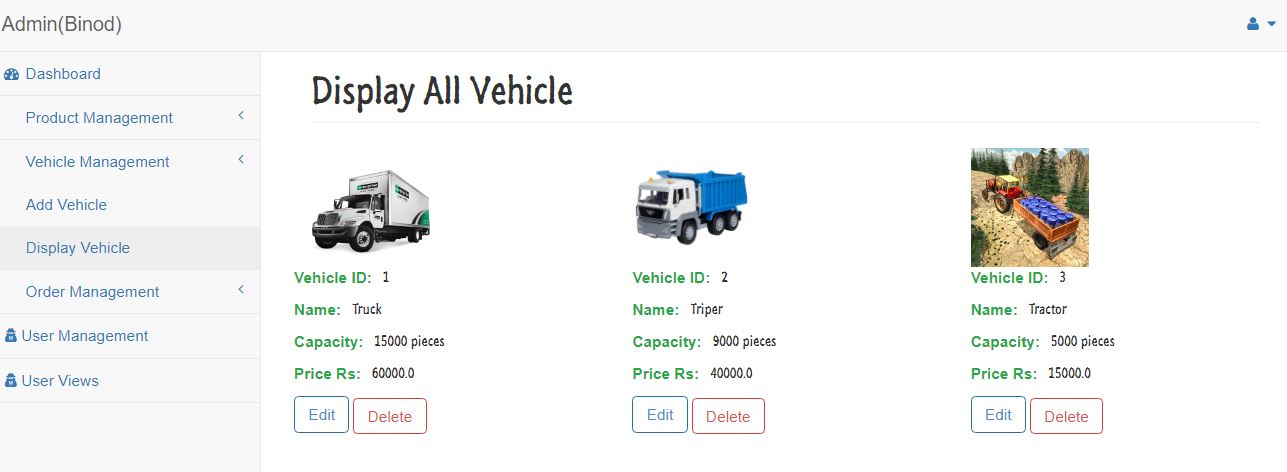
Screenshot: Vehicle dao to delete vehicle



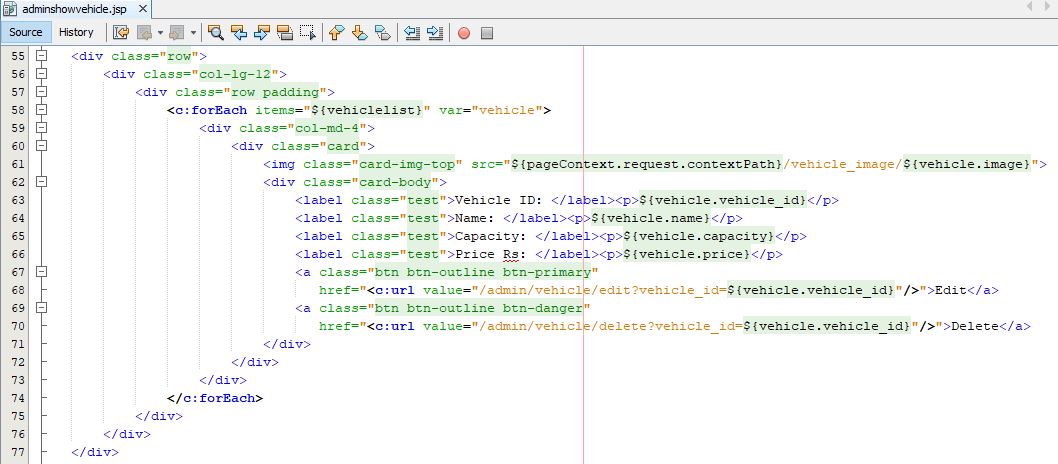
Screenshot: Vehicle dao to update vehicle

Form to manage vehicle

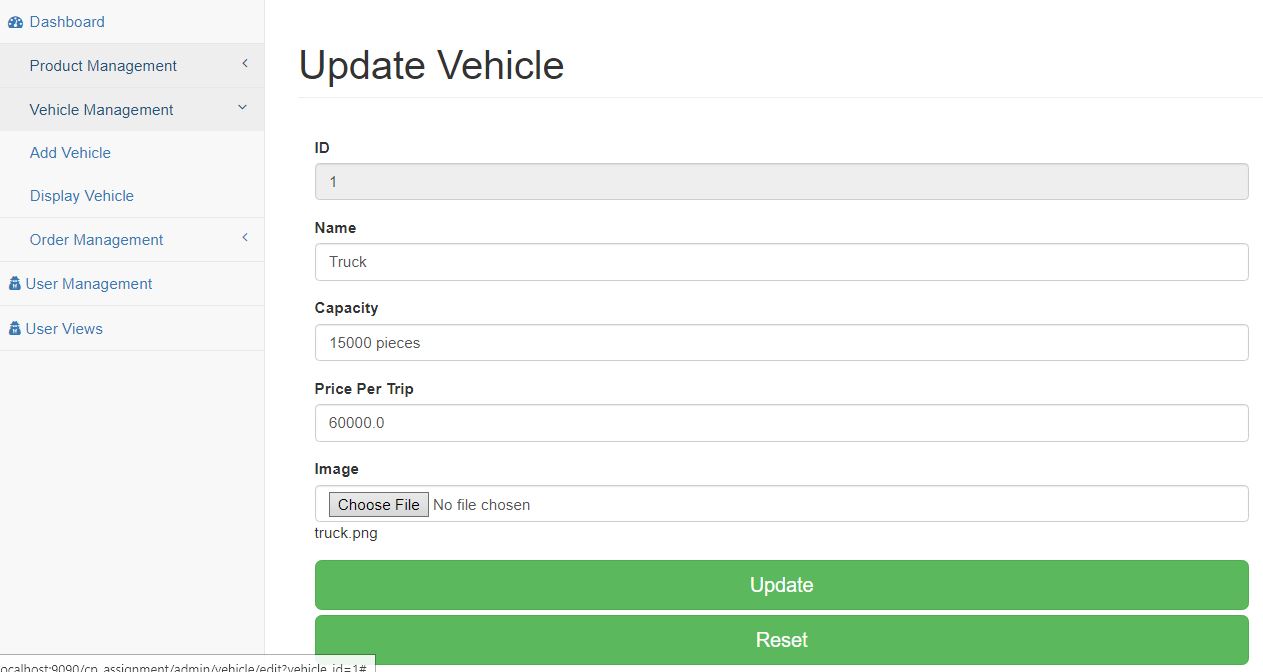
Screenshot: Form to add vehicle



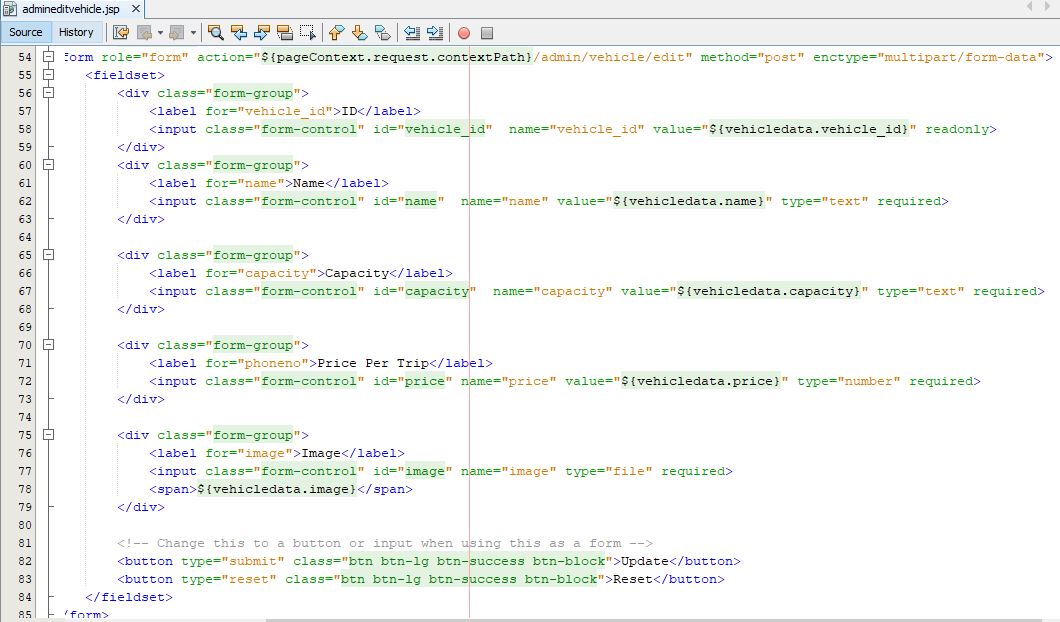
Screenshot: Form to display all vehicle



Screenshot: JSP file to display vehicle



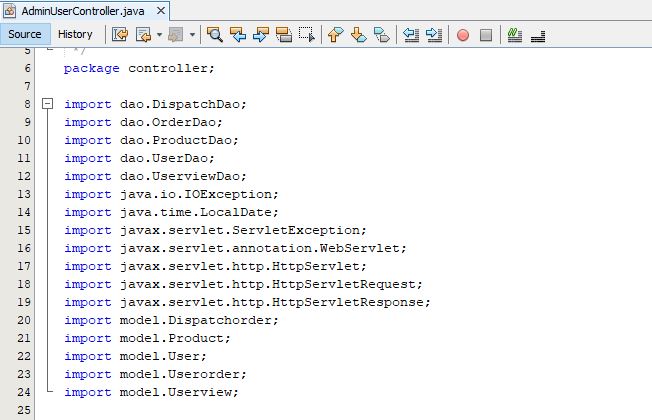
Screenshot: Form to update vehicle



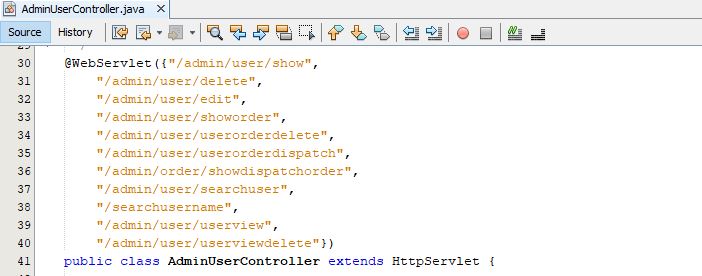
Screenshot: JSP file to edit vehicle

Admin User Manager

Controller to manage user by admin

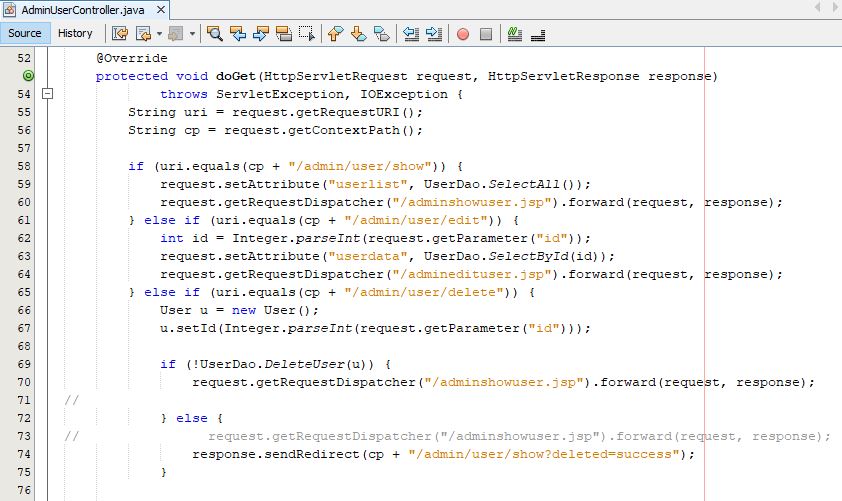


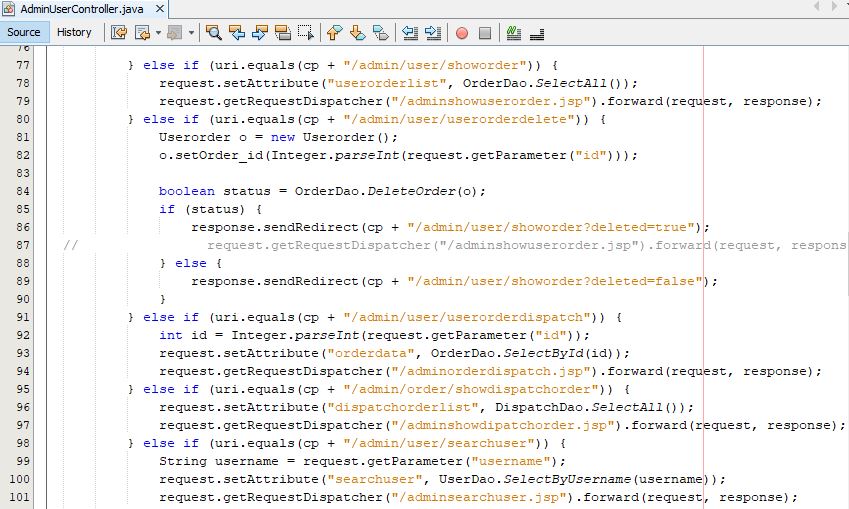
Screenshot: Required imported library for user controller

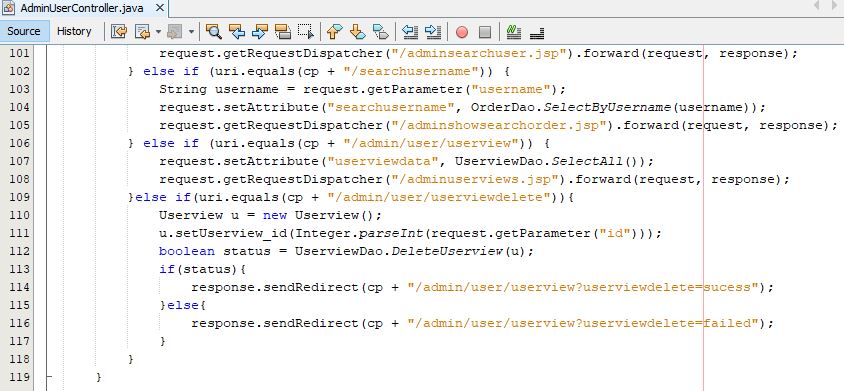


Screenshot: URL(Uniform Resources Locator) for admin user controller

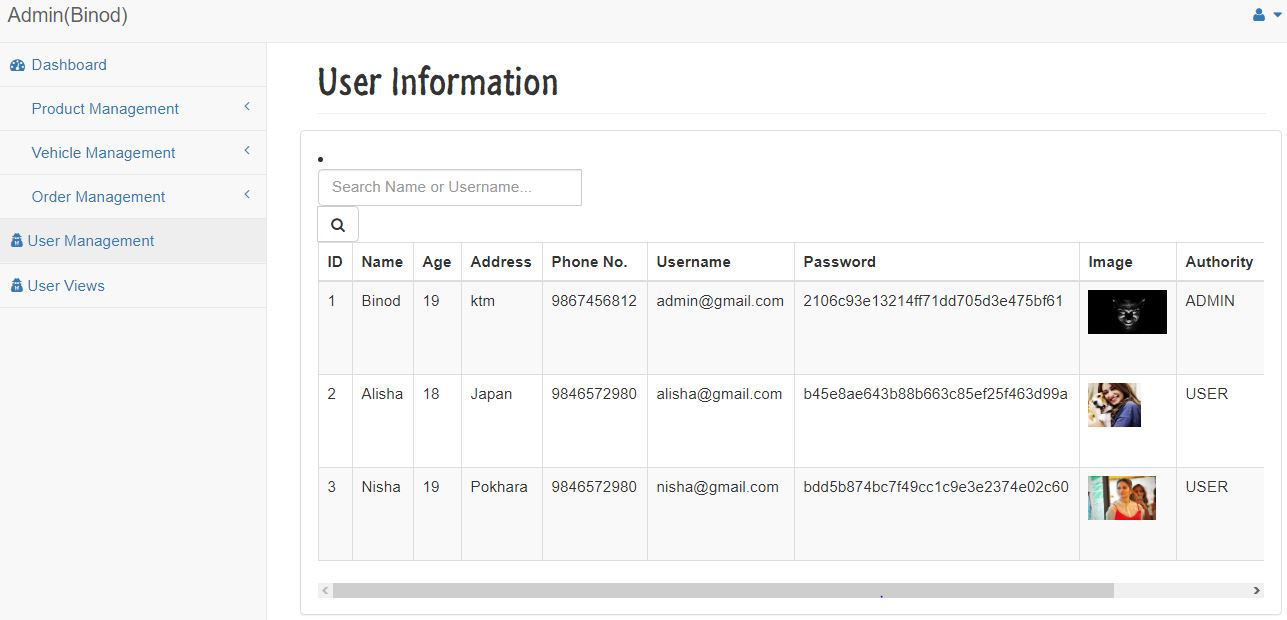
User controller request in doGet and operation performed

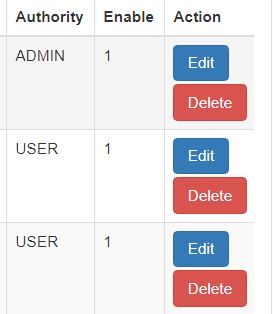




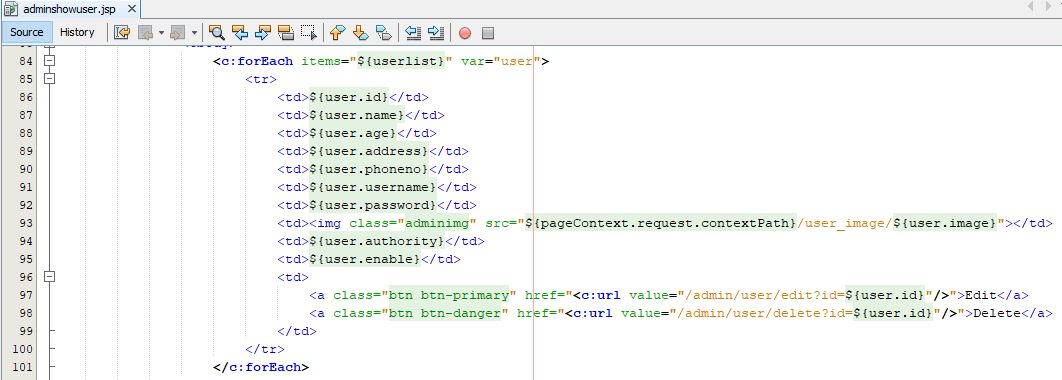


Form to manage user by admin

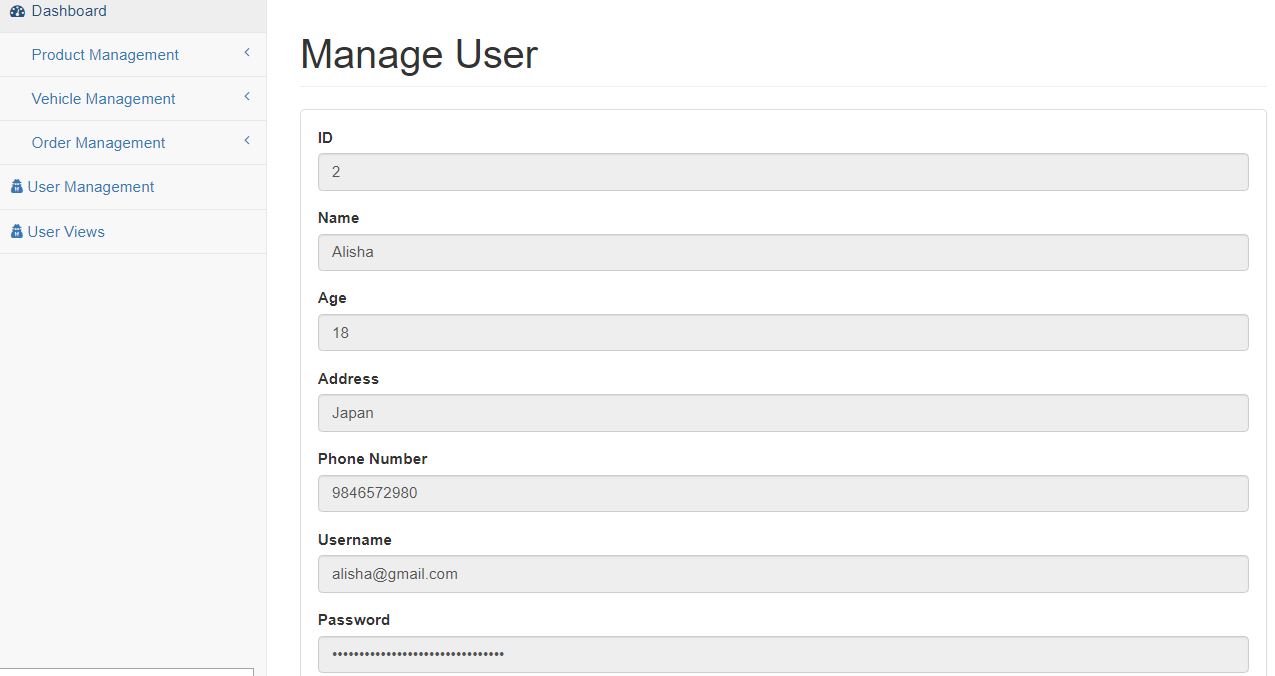


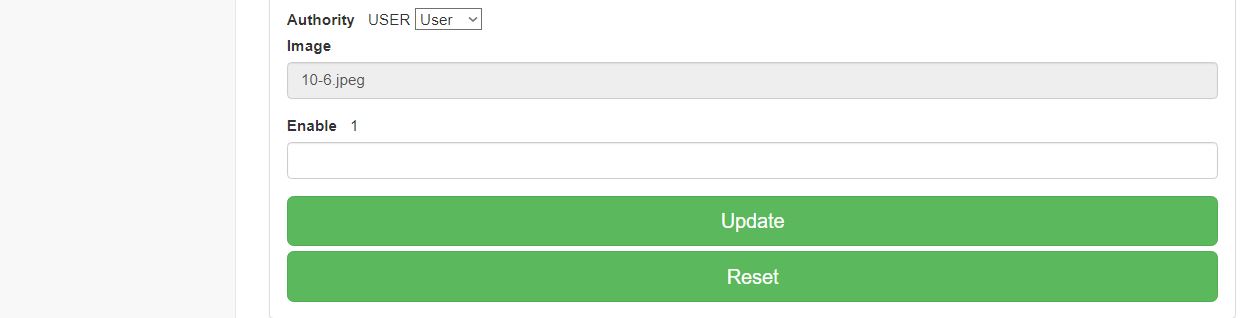


Screenshot: Form showing all user

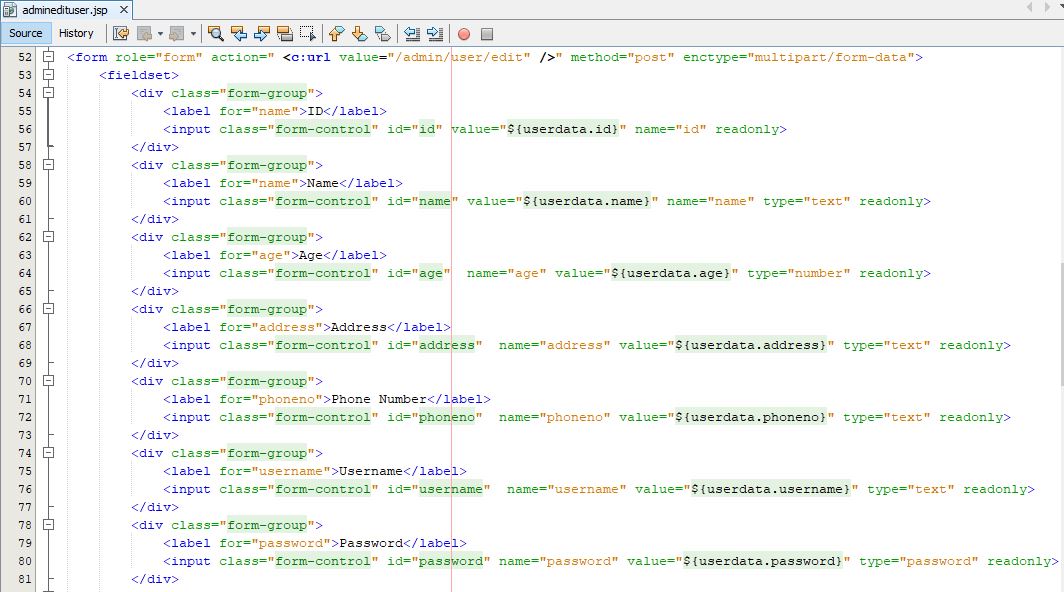


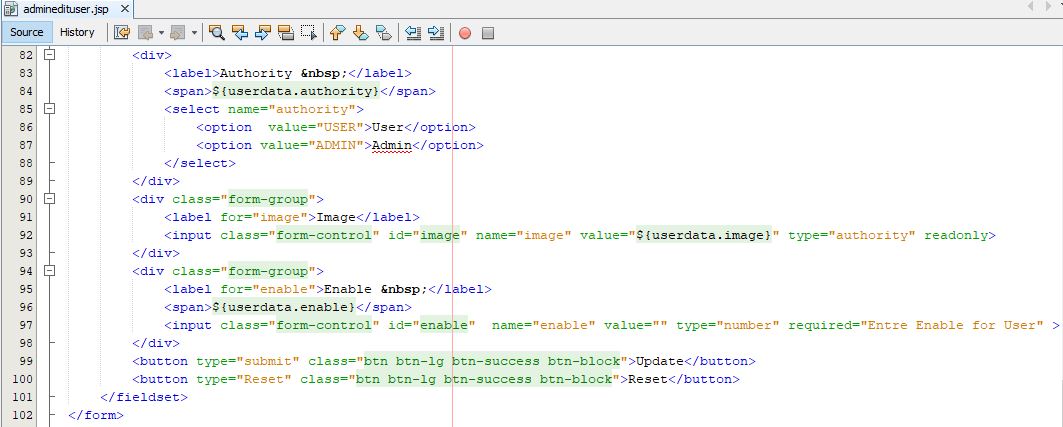
Screenshot: JSP file to display all user



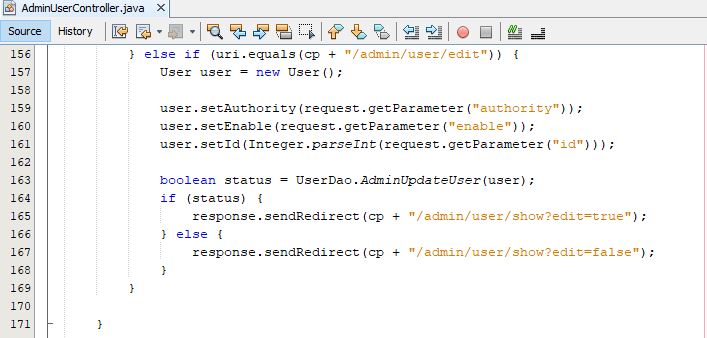


Screenshot: Form to update user by admin





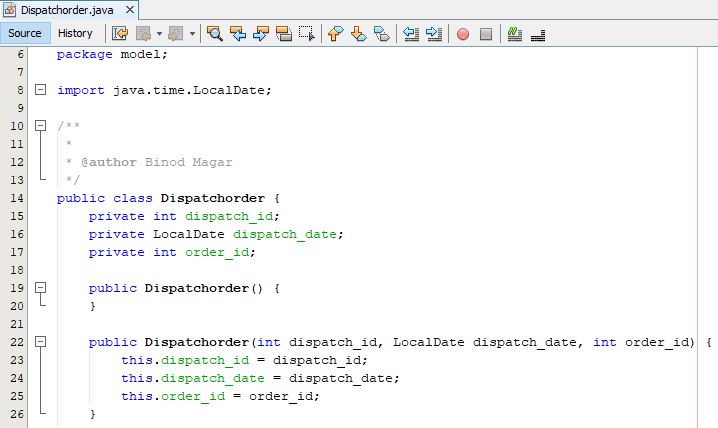
Screenshot: JSP file to update user by admin

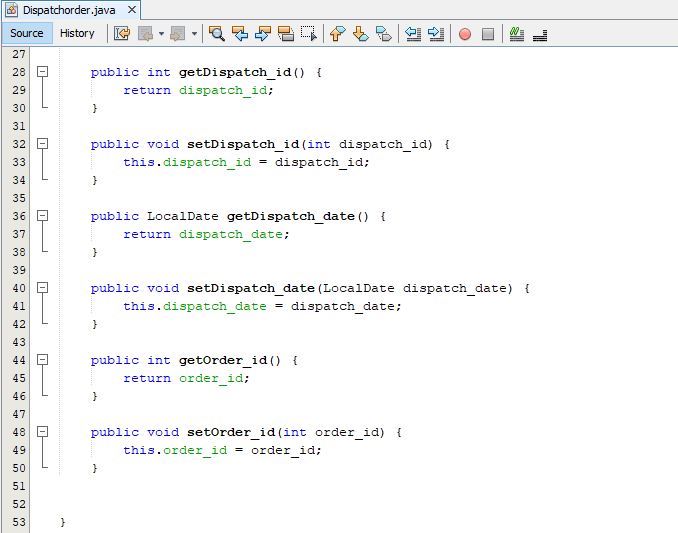


Screenshot: Controller to edit user by admin in doPost

Admin Dispatch Order

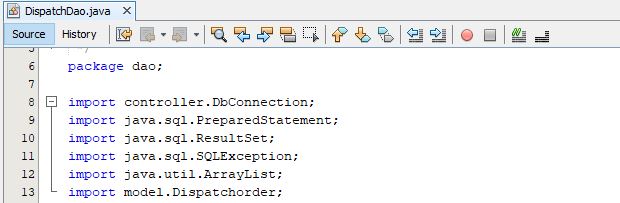
Model for dispatch order



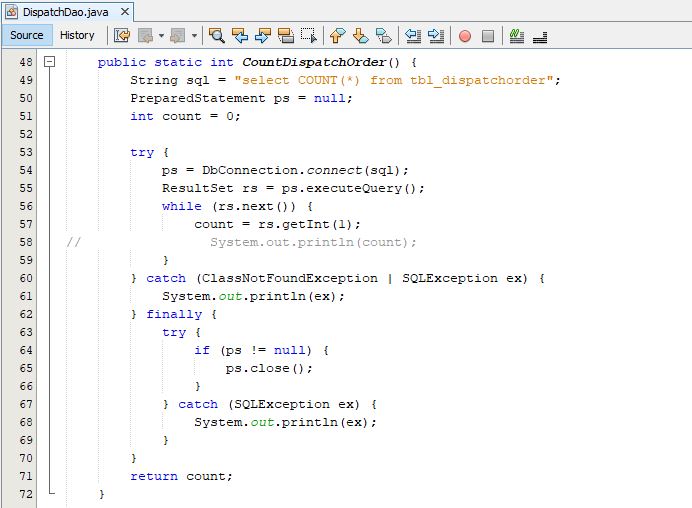


Screenshot: Model to dispatch order and required imported library

Dispatch order Dao(Data access object) for dispatch order

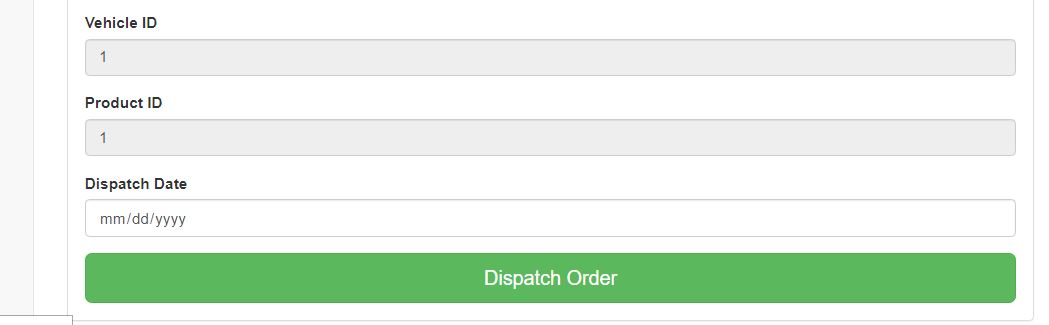


Screenshot: Required imported library for dispatch order dao



Screenshot: Dao to count all dispatch order

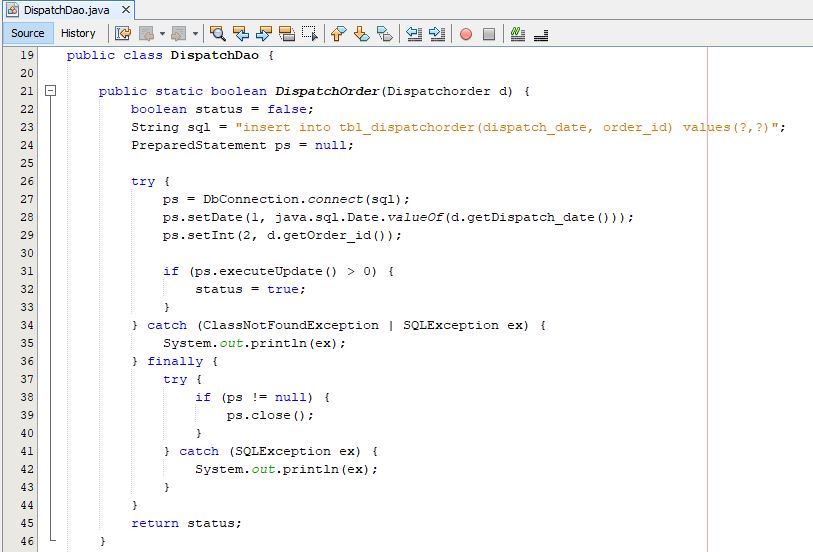
Form of the Dispatch order



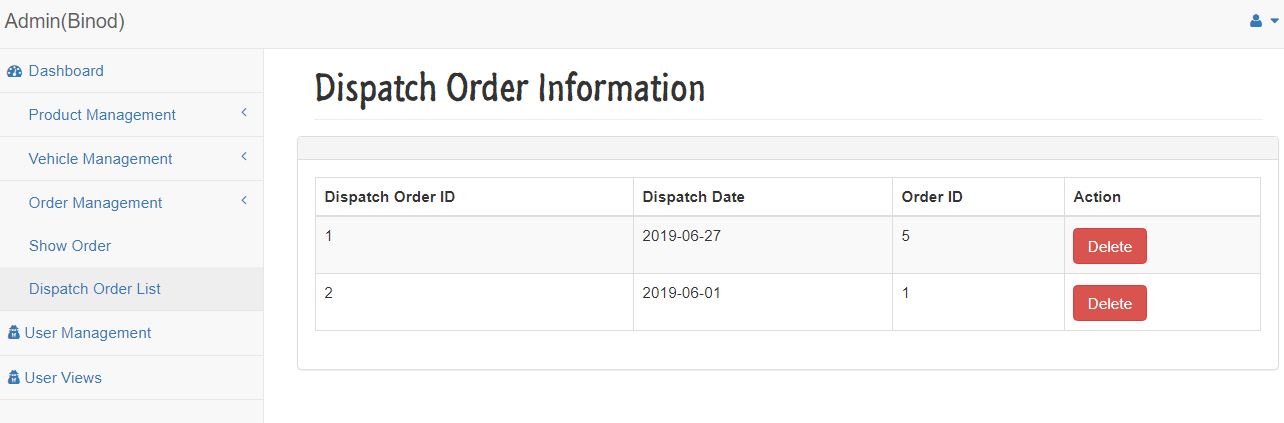
Screenshot: Form to dispatch the order



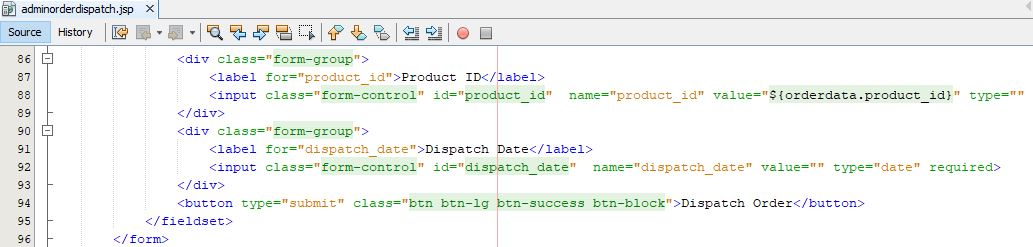
Screenshot: Controller for user order dispatch order



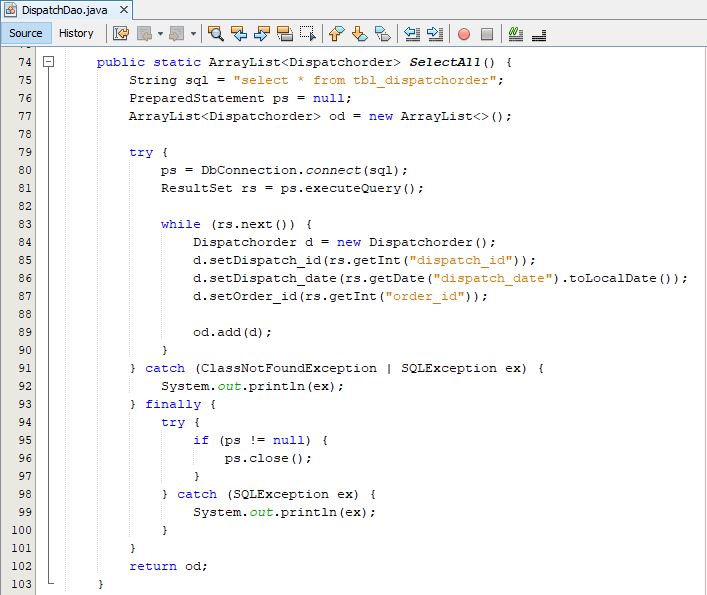
Screenshot: Dispatch dao to insert data of dispatch order in the database



Screenshot: List of all dispatch order

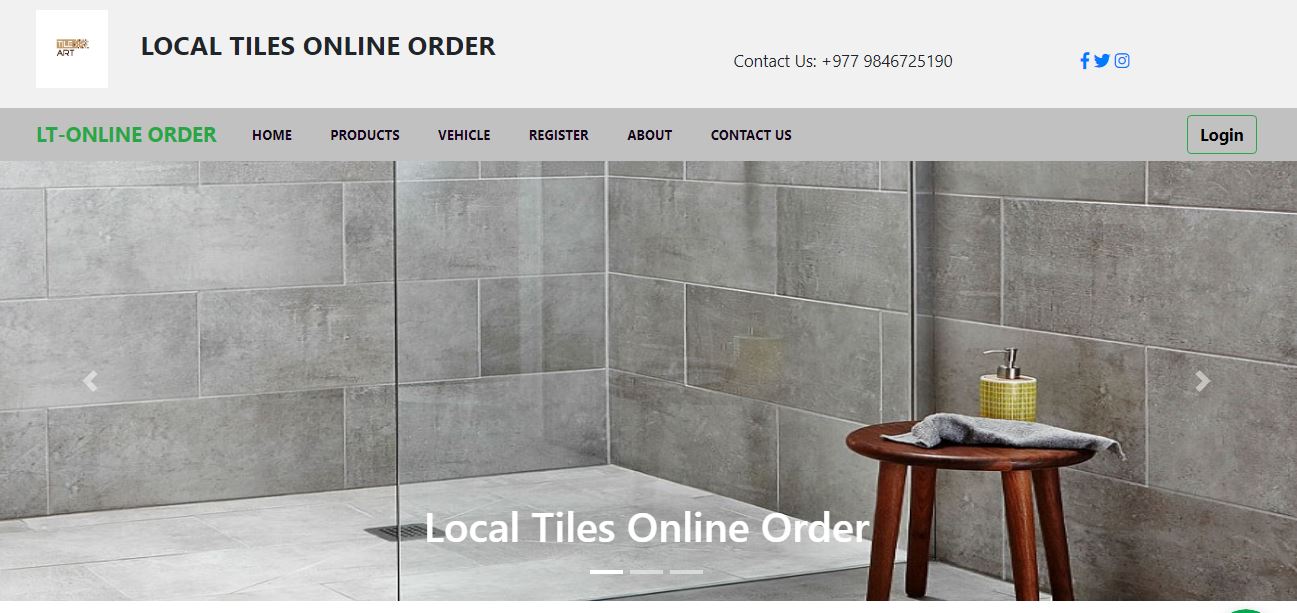


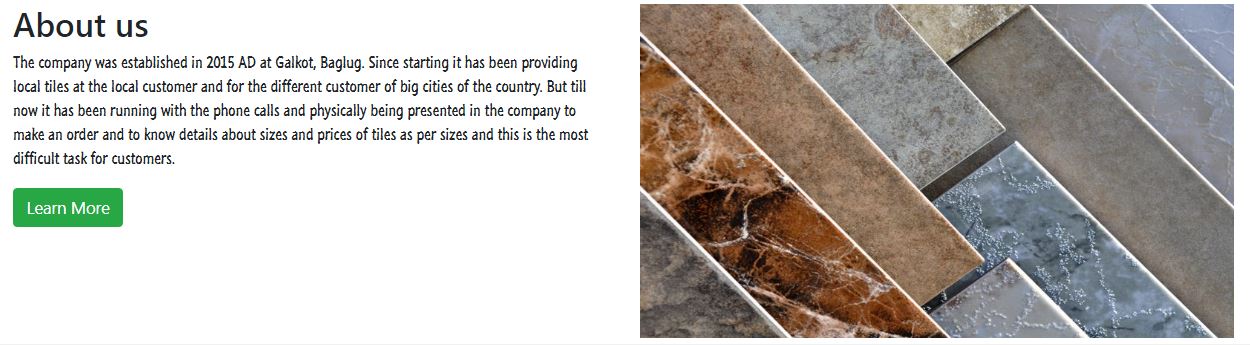
Screenshot: JSP(Java Server Page) to show all dispatch order

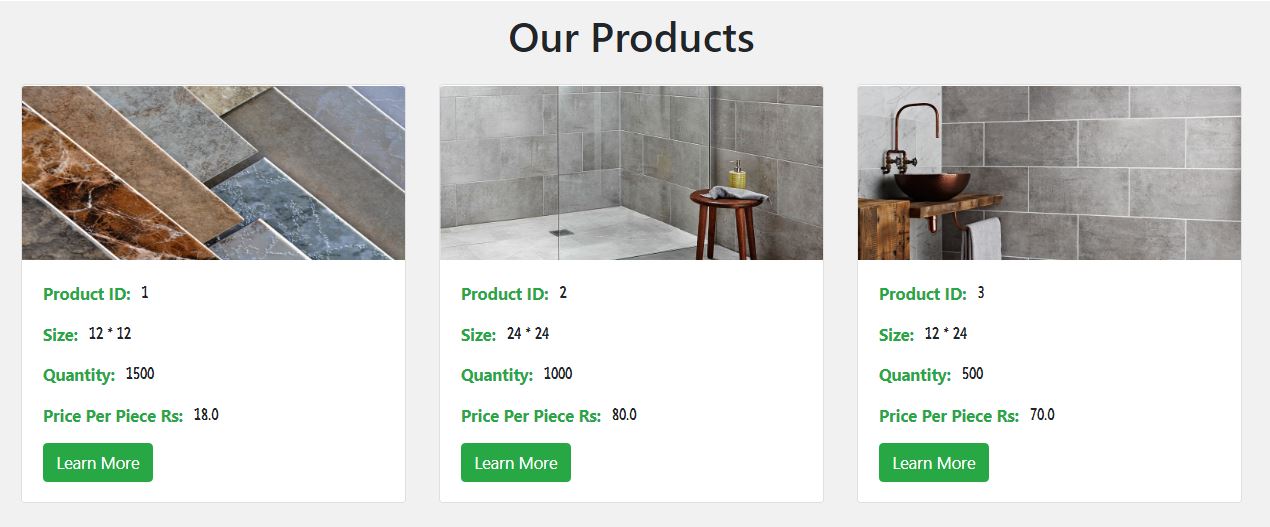


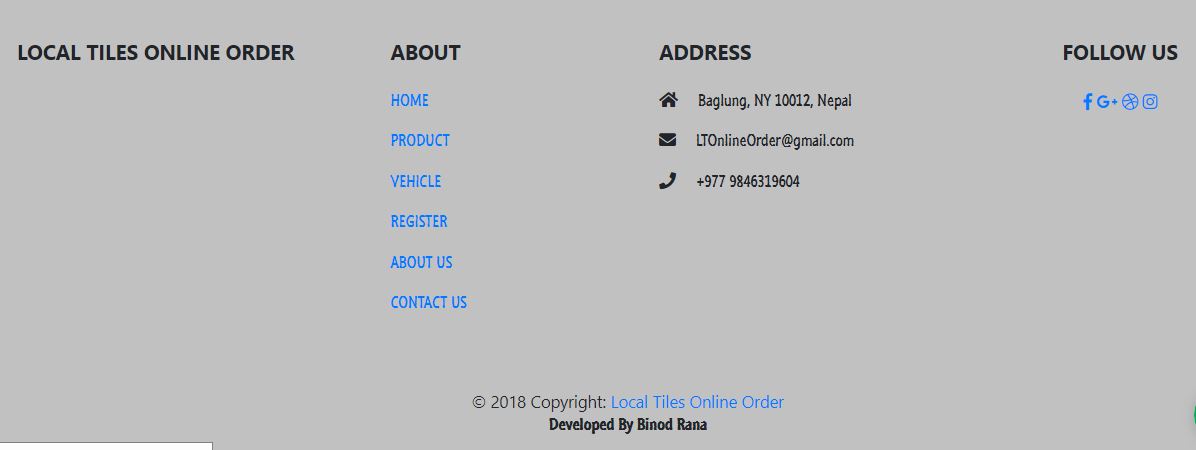
Screenshot: Dispatch dao to select all dispatch order in ArrayList

Index page



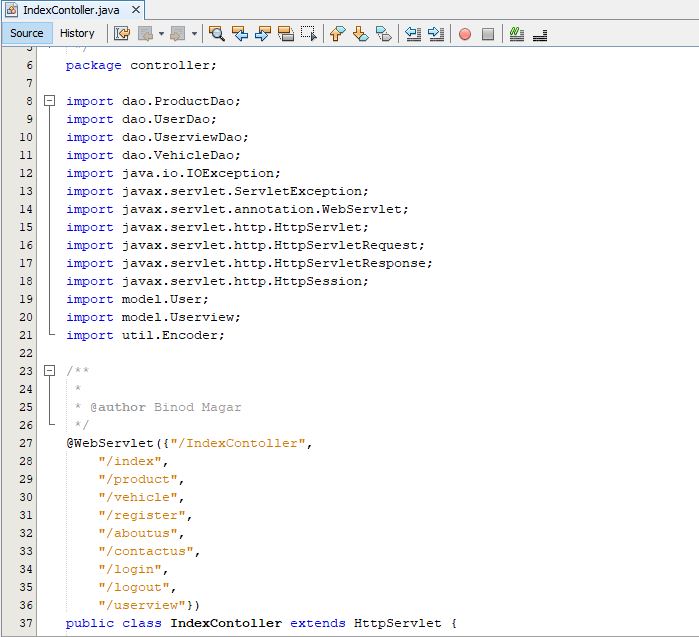






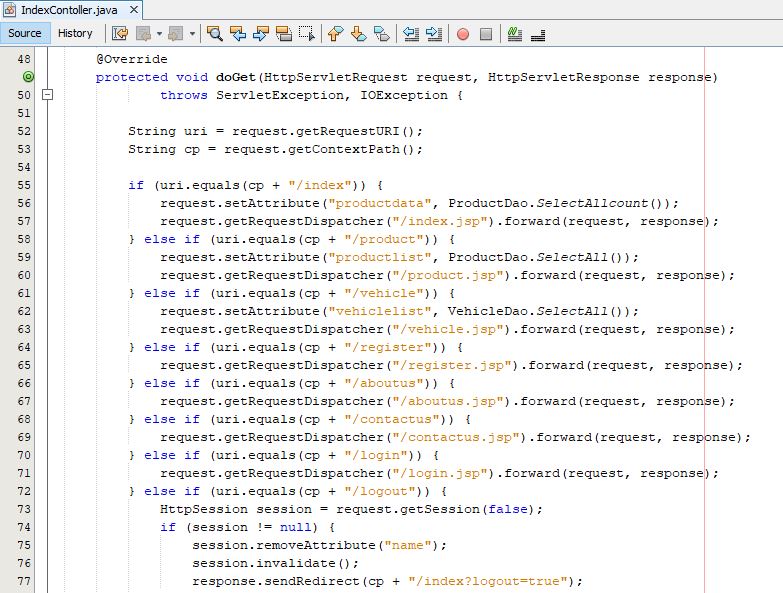
Screenshot: Home page

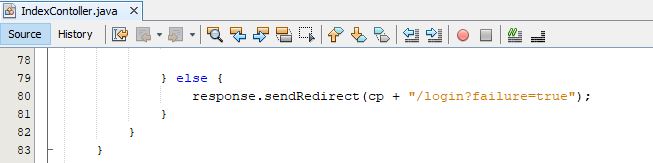
Controller for index page

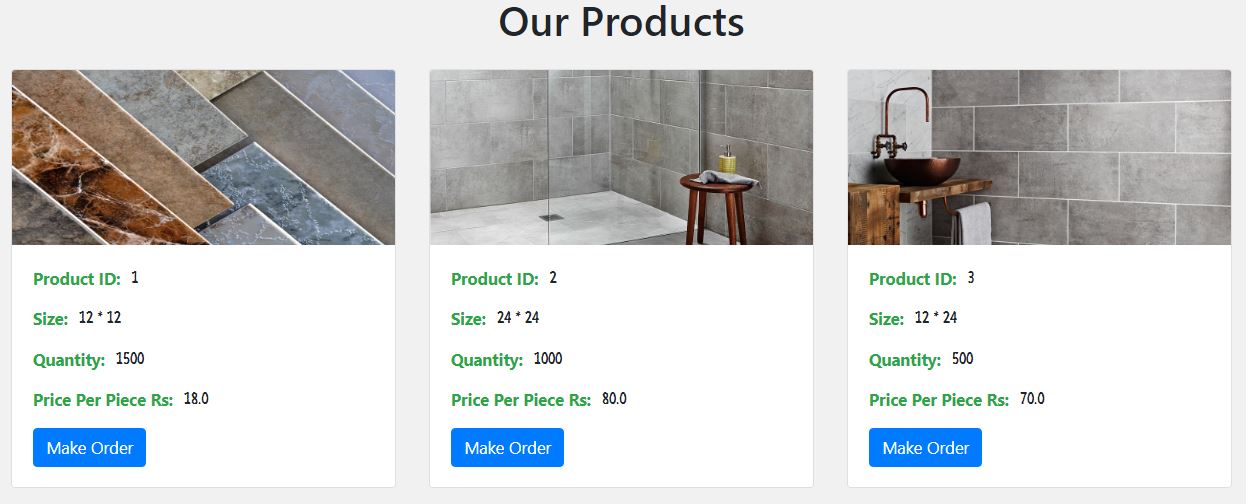


Screenshot: Required imported library and URL(Uniform Resources Locator)

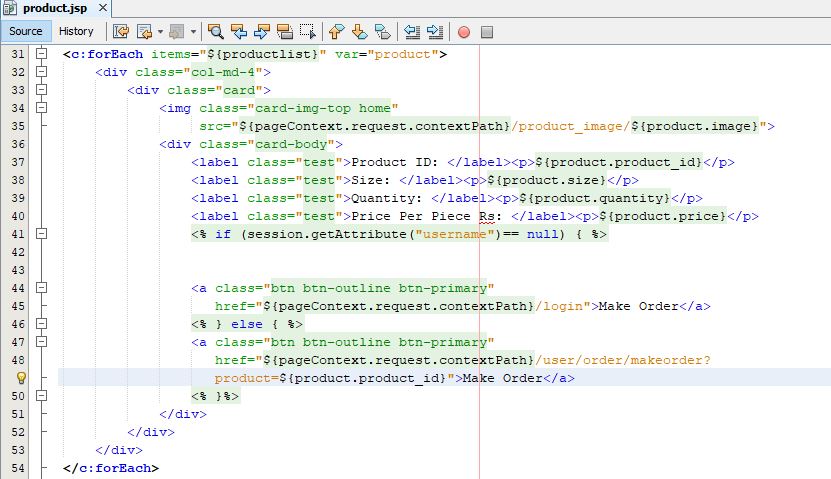
Index controller doGet request and operation performed



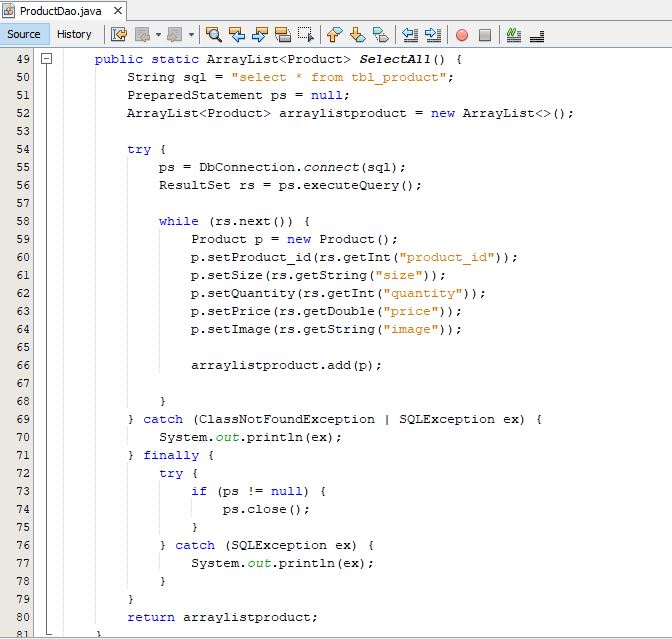




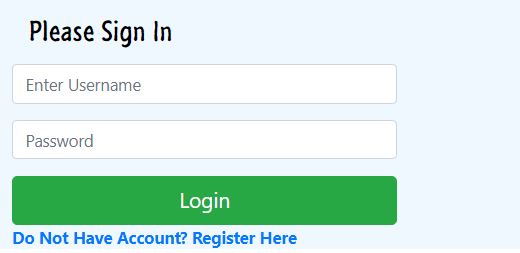
Screenshot: Our product pages



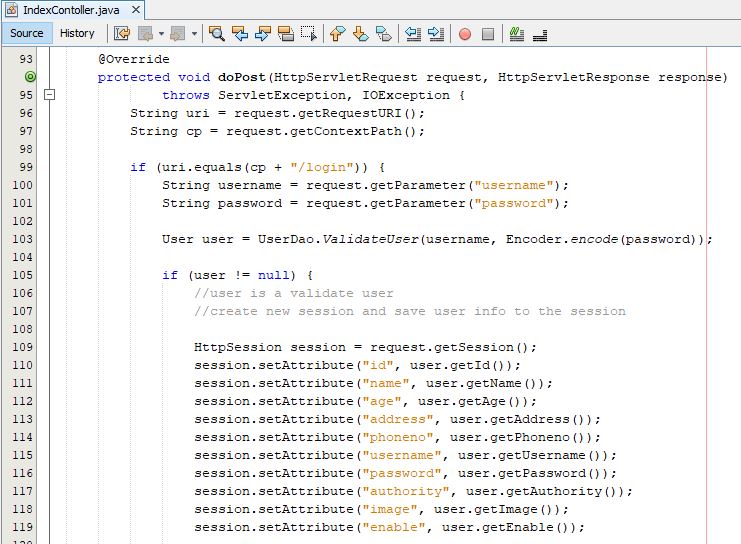
Screenshot: JSP file of our product page

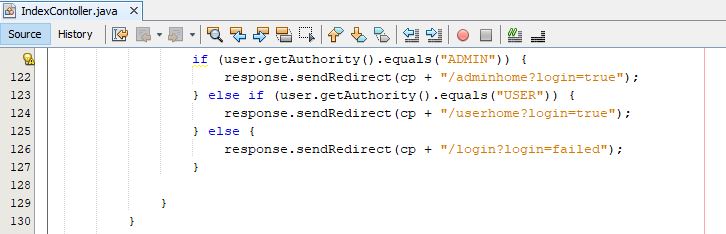


Screenshot: ProductDao to select all product in ArrayList

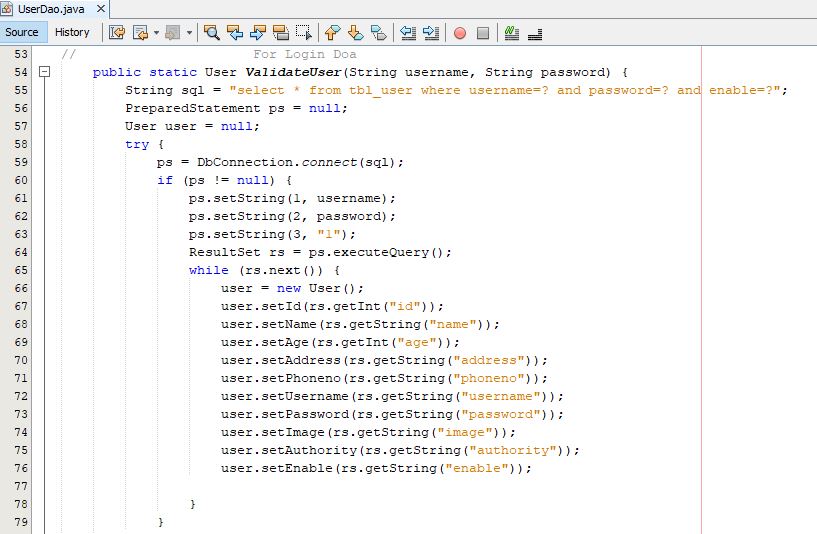


Screenshot: Login form

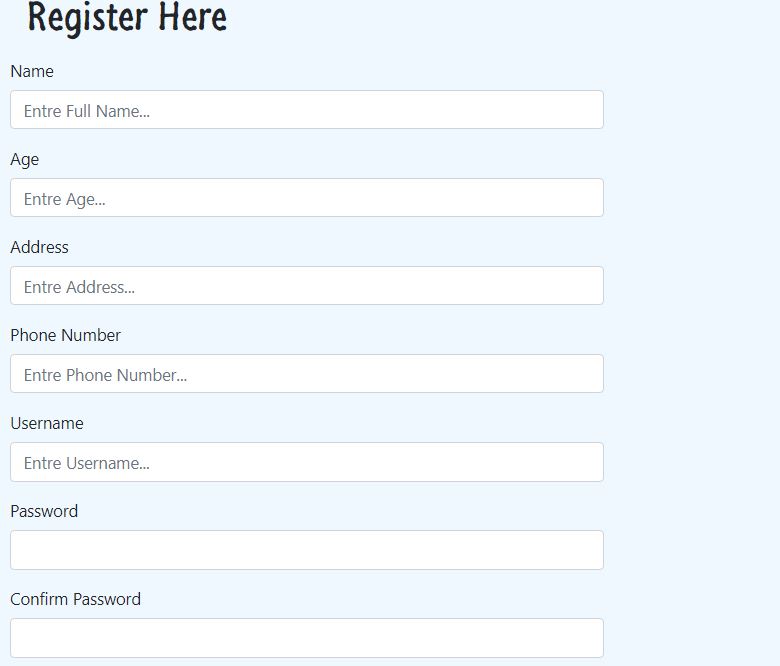


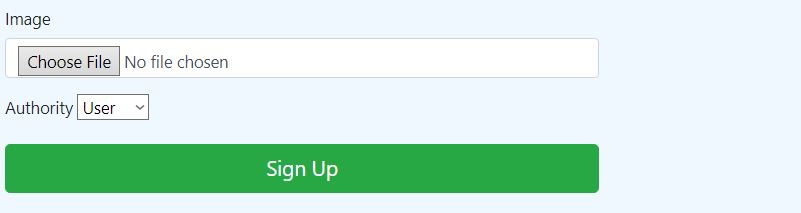


Screenshot: Controller for login

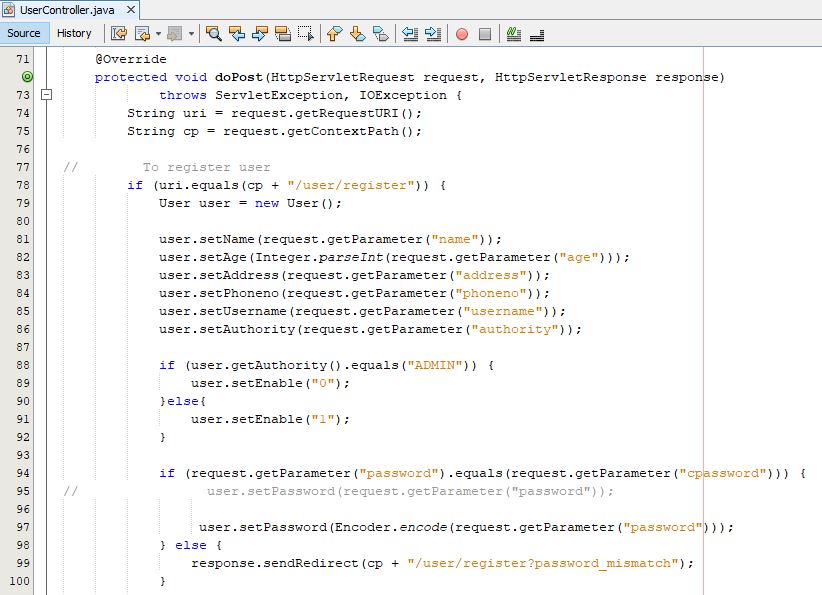


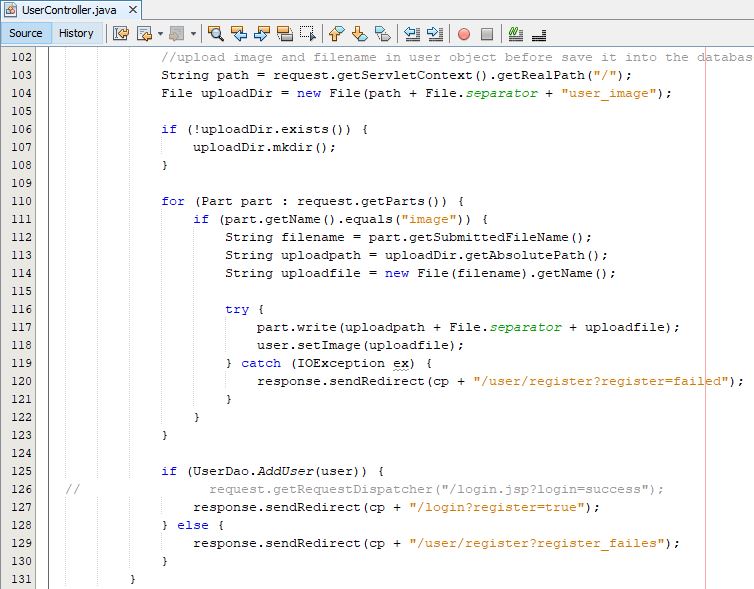
Screenshot: User dao to validate user



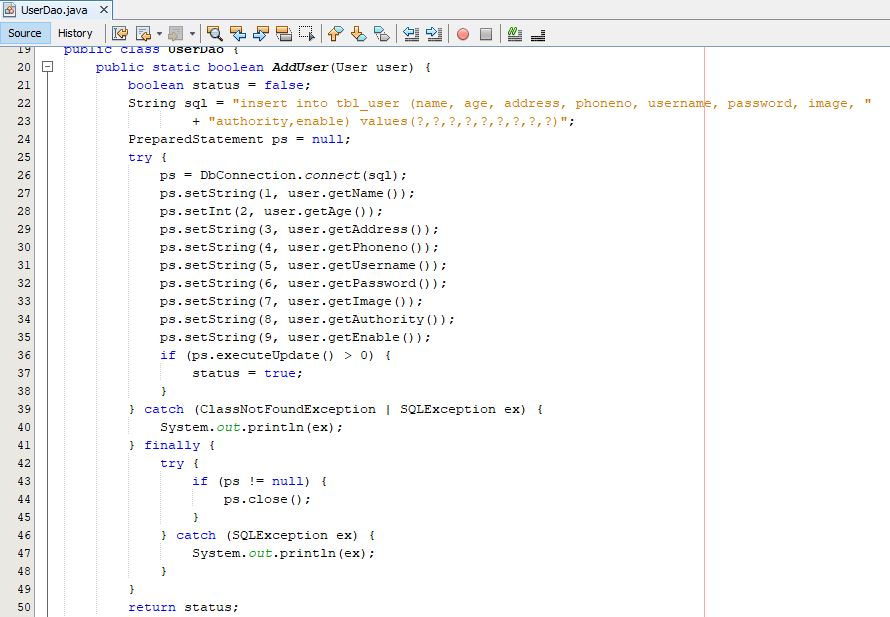


Screenshot: Register form



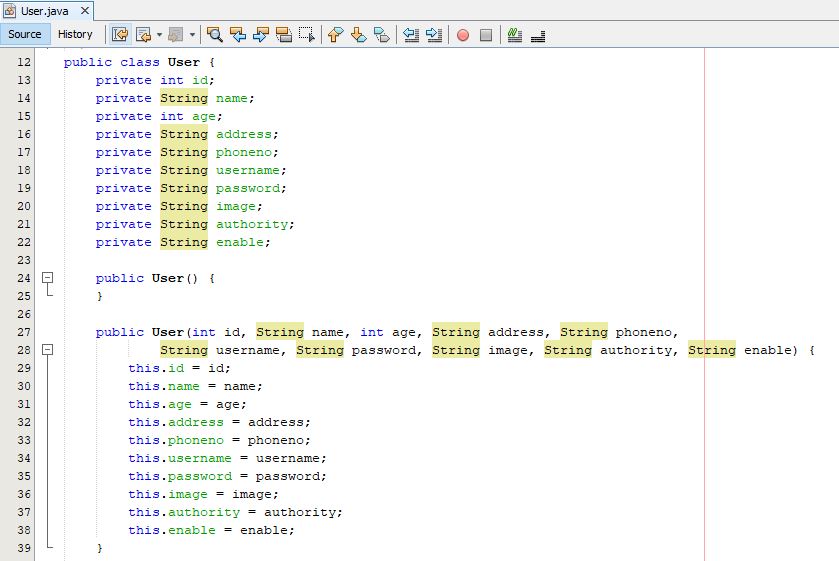


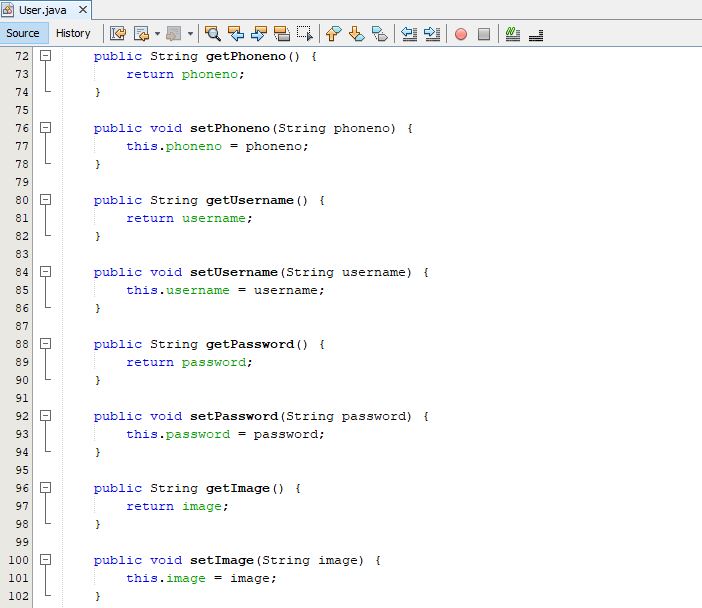
Screenshot: User controller for register user

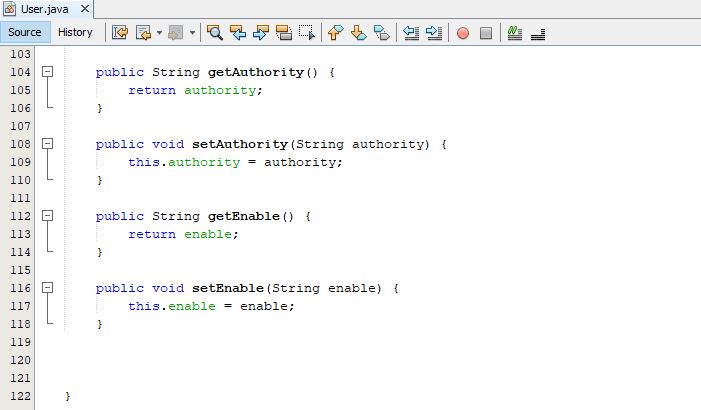


Screenshot: User dao to insert data into database

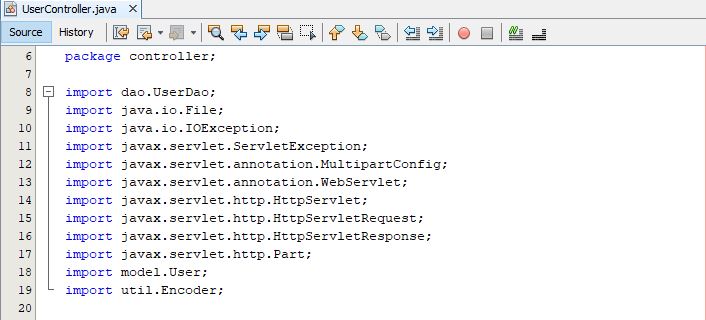
Model for User

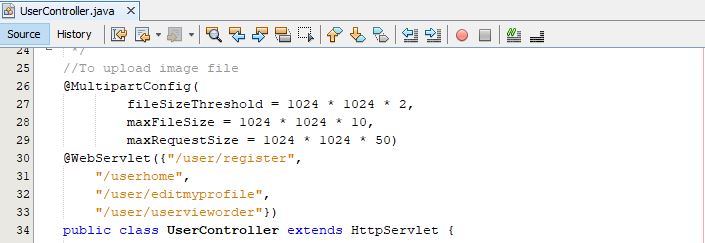






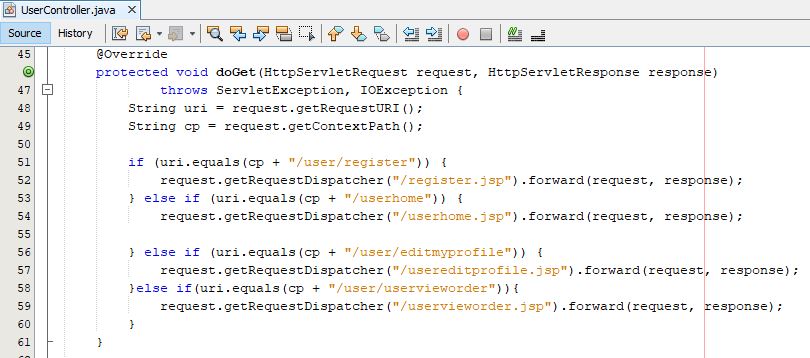
Controller for User profile

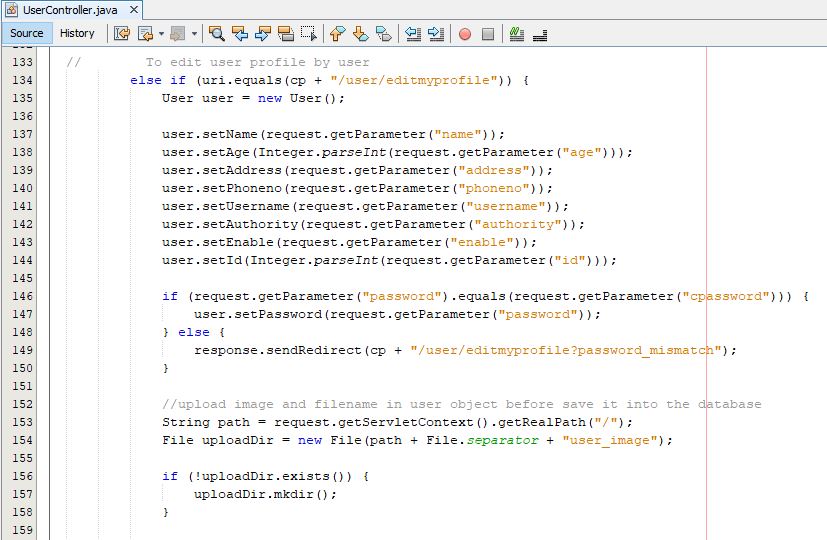


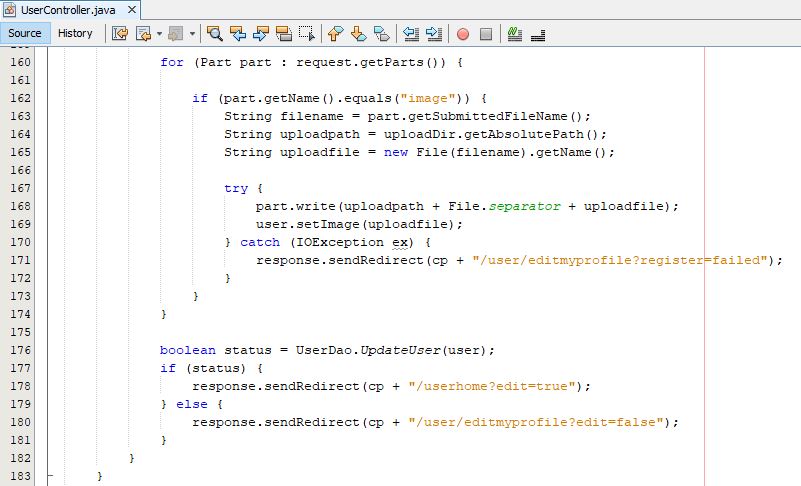


Screenshot: Imported library and URL pattern for user profile

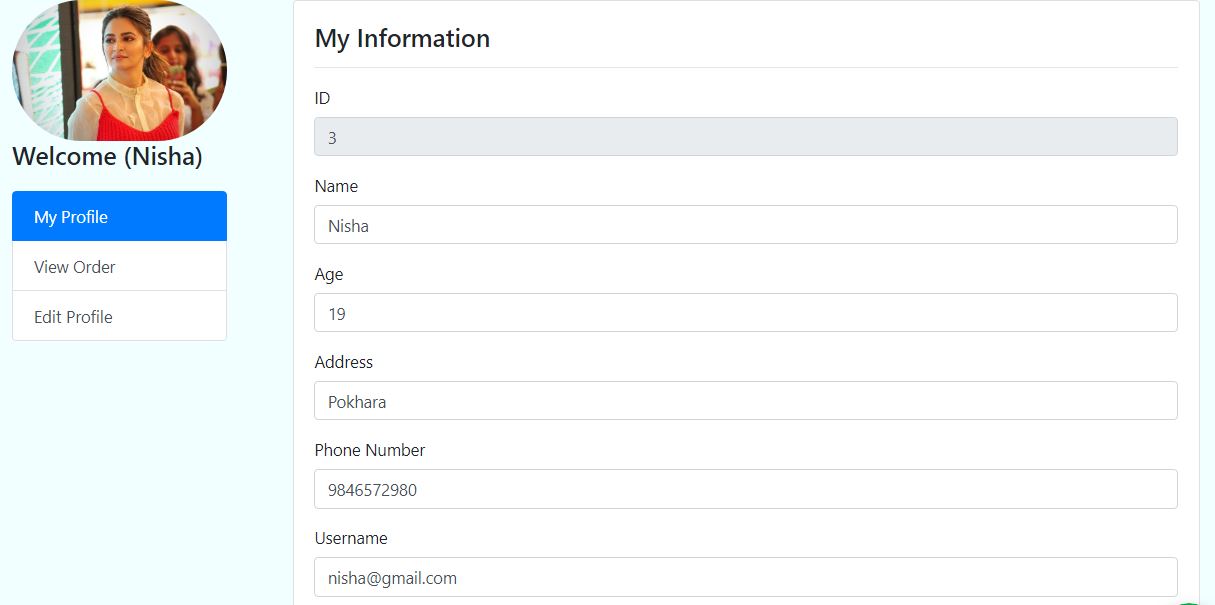
User controller doGet request and operation performed



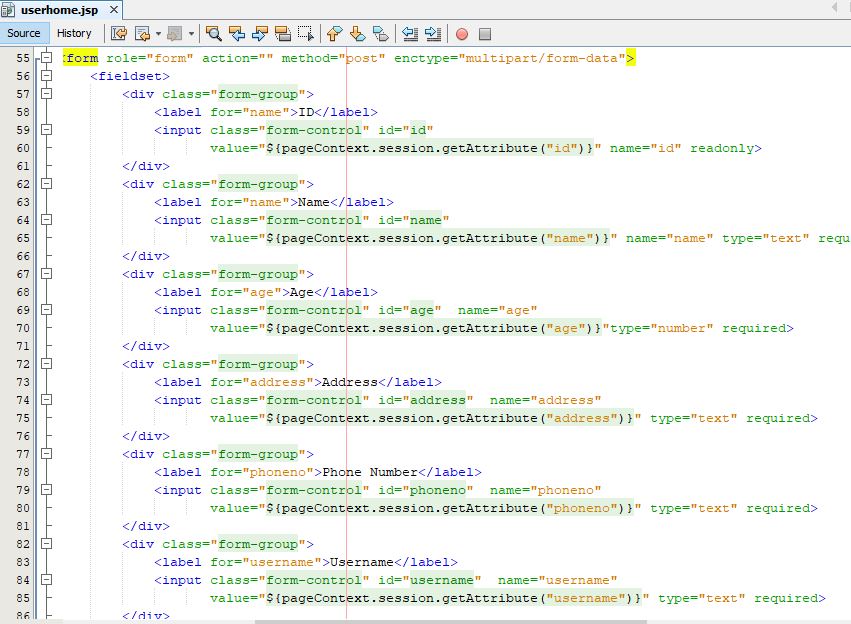


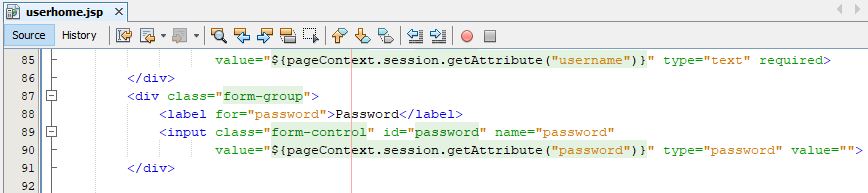


Screenshot: Controller for user edit profile

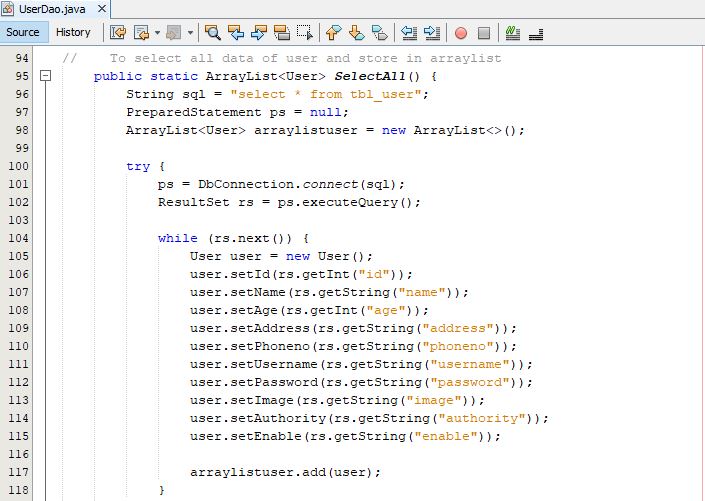


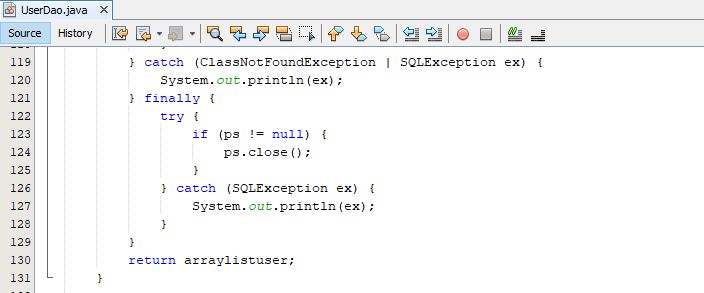
Screenshot: User profile



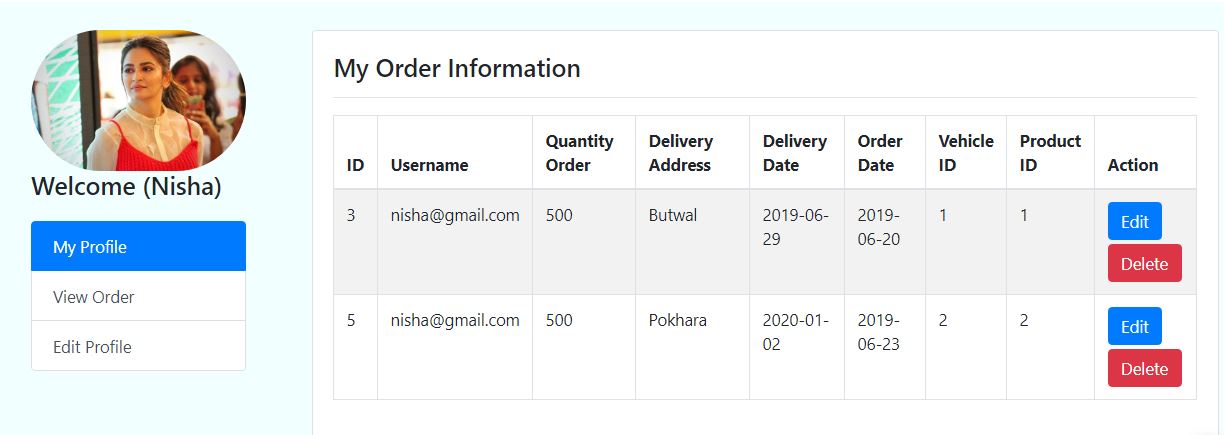


Screenshot: JSP file for user profile

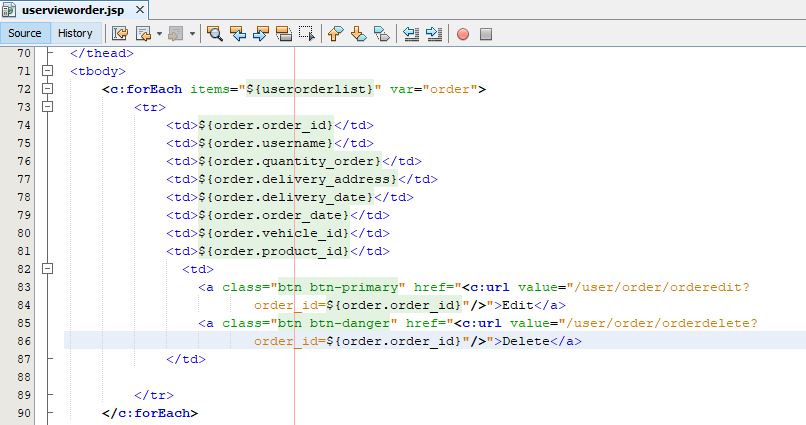




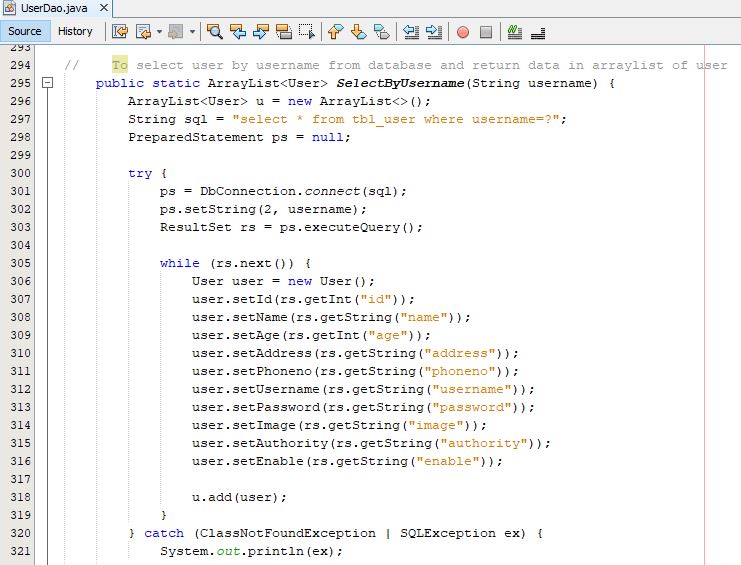
Screenshot: User dao for user show profile

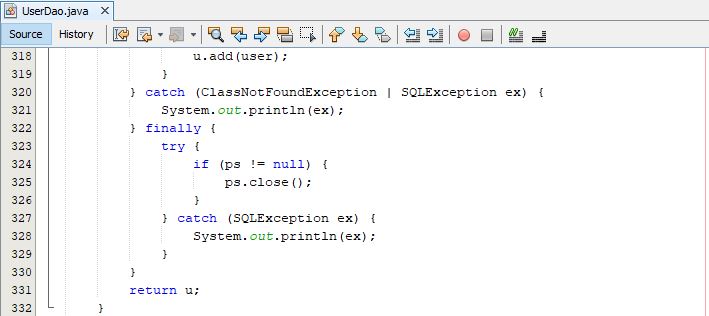


Screenshot: User show order

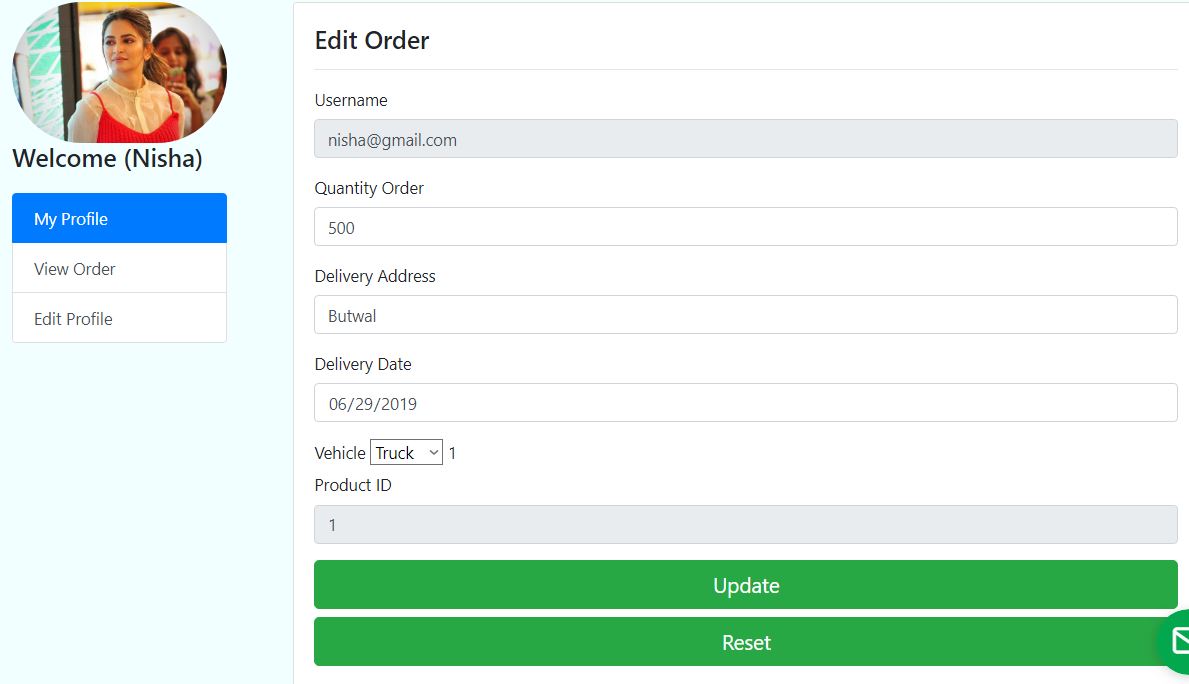


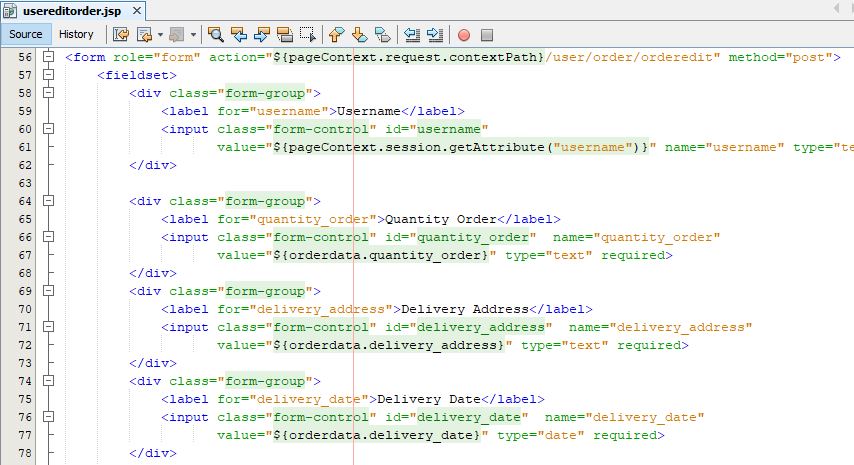
Screenshot: JSP file to show order





Screenshot: User dao to display order

Screenshot: User order edit form

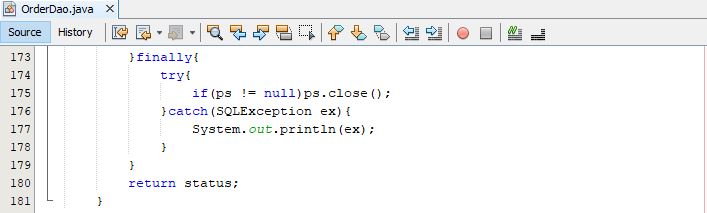




Screenshot: JSP file of user edit form



Screenshot: User dao to update



Screenshot: User order edit