**Retrieval of product details using ProductID**

**Github link:**

[**https://github.com/saranya611/testapp/tree/main/retrieval\_using\_productID**](file:///C:\Users\SARANYA%20V\Desktop)

**Write up:**

**Step1:** Creating a dynamic web project

* Open Eclipse
* Go to the **File** menu. Choose **New->Dynamic Web Project**
* Enter the project name as **SearchServlet**. Click on **Next**
* Enter nothing in the next screen and click on **Next**
* Check the checkbox **Generate web.xml deployment descriptor** and click on **Finish**
* This will create the project files in the Project Explorer

**Step 2:** Creating an HTML page

* In the Project Explorer, expand the project **SearchServlet.**
* Expand **WebContent**. Right click on **WebContent** . Choose **New->HTML File**
* Enter the filename as **index.html** and click on **Finish**
  + - * Created form which ask for the product id from user along with submit button.
      * Form action is on **SearchProduct**

**Step 3:** Creating a servlet

* In the Project Explorer, expand **SearchServlet->Java Resources**
* Right click on **src** and choose **New->Servlet**
* In **Class Name,** enter **SearchProduct** and click on **Finish**

**Step 4:** Checking for servlet-api.jar

* Before building the project, we need to add servlet-api.jar to the project
* Servlet-api.jar file is already present in your practice lab.
* To add it to the project, follow the below mentioned steps:
  + - * In the Project Explorer, right click on **SearchProduct** and choose **Properties**
      * Select **Java Build Path** from the options on the left
      * Click on **Libraries** tab on the right
      * Under **ClassPath,** expand the node that says **Apache Tomcat**
      * If there is an existing entry for servlet-api.jar, then click on **Cancel** and exit the window
      * If it is not there, then click on **Classpath** entry and click on **Add External JARs** button on the right
      * From the file list, select servlet-api.jar file and click **Ok**
      * Click on **Apply and Close**

**Step 5:** Building the project

* From the **Project** menu at the top, click on **Build**
* If any compile errors are shown, fix them as required

**Step 6:** Publishing and starting the project

* If you do not see the **Servers** tab near the bottom of the IDE, go to **Window** menu and click on **Show View->Servers**
* Right click on the **Server** entry and choose **Add and Remove**
* Click the **Add** button to move **SearchProduct** from the **Available** list to the **Configured** list
* Click on **Finish**
* Right click on the **Server** entry and click on **Publish**
* Right click on the **Server** entry and click on **Start**
* This will start the server

**Step 7:** Creating the database to save the product details

* Create table with table name as **product** with fields as **id, productname,** **price** where id is the primary key.
* Insert the details of the products.

**Step 8:** Running the project

* To run the project, open a web browser and type:

[**http://** [**localhost:8282/SearchServlet/**](http://localhost:8282/SimpleServletApp/LoginApp)](http://localhost:8080/ServletConcept)

* On **index page**, ask user to **enter the product id**.
  + - If the product id matches , it displays “**the details of the product”** along with the link to search another product.
    - Otherwise, it displays “ **There is no product, try again later..!”** along with the link to search another product.
    - If the user didn’t give any input and submitted the form, it displays “**didn,t enter any product id. Try again..!** ” along with the link to main page.