

Retrieving the Product Details Using the Product ID.

It is a servlet-based application that shows a form to enter a product ID. The product ID is then validated, and product details are retrieved from the database and displayed to the user. Created a product table in MySQL and prepopulate it with data. And have used JDBC to do all database processing.

Development environment used are Eclipse IDE for Enterprise Java Developers, Apache Tomcat Server v9.0, JRE: OpenJDK Runtime Environment 11.0.2, MySQL Connector for Java 8.0.16.

1. Created a database ecommerce in MySQL and created table eproduct with rows ID, name, price and date added.
2. Inserted sufficient data to the table.
3. Created a dynamic web project SearchProduct and added necessary jar files to it.
4. Created index.html page to give the form to user input the ID to be searched.
5. On search, the application will go to SearchProduct servlet.
6. Call the DBOperations class to connect to the database using JDBC.
7. Execute the query to select from the table for the given id using PreparedStatement.
8. If found, display it in the webpage using PrintWriter.
9. If a row with the given id is not found, then print error message.
10. Close the database connection.

The data flow diagram of the project is given below:

