

Algorithm: Retrieving the Product Details

1.User Interface:

Display an HTML form with a text input field for the product ID and a submit button.

2.Form Submission:

When the user submits the form, the servlet (ProductServlet) is invoked.

3.Retrieve Product ID:

Retrieve the product ID entered by the user from the request parameters.

4.Database Connection:

Establish a connection to the MySQL database using JDBC.

5.Query Database:

Prepare a SQL query to retrieve product details based on the entered product ID.

Execute the query using a PreparedStatement.

6.Process Result:

If the result set contains a row:

Display product details (ID, name, price) in the servlet response.

Else:

Display an error message indicating that the product was not found.

Error Handling:

7.Handle potential exceptions during database operations (e.g., SQLException).

Display appropriate error messages if there are issues with the database connection or query execution.

8.Close Resources:

Close the database resources (e.g., Connection, PreparedStatement, ResultSet) to avoid resource leaks.