

Retrieving the Product Details Using the Product ID.

Writeup:

The servlet extends the `HttpServlet` class and overrides the `doGet` and `doPost` methods to handle GET and POST requests, respectively.

2. The `doGet` method is responsible for handling GET requests. It retrieves the `productId` parameter from the request using `request.getParameter("productId")`.

3. It then establishes a connection to the MySQL database using the JDBC driver for MySQL (`com.mysql.cj.jdbc.Driver`) and the provided credentials.

4. The servlet creates a statement object and executes a `SELECT` query to retrieve product details based on the provided `productId`.

5. The result set is obtained using `stmt.executeQuery(QUERY)`, and if a record is found, the product details are displayed in an HTML table format using the `PrintWriter` object. The retrieved data includes the product ID (`pid`), product name (`pname`), and product cost (`cost`).

6. If no record is found, an error message is displayed.

7. The `doPost` method is implemented to invoke the `doGet` method, allowing the servlet to handle both GET and POST requests in the same way.