Retrieving the Product Details Using the Product ID - WriteUP

#Algorithm

- 1. Start.
- 2. Create a MySQL database named "Products" if it doesn't exist.
- 3. Create the "product" table in the "Products" database using the provided SQL query.
- 4. Prepopulate the "product" table with sample data using the provided SQL insert query.
- 5. Create an HTML file with a form that allows users to enter a product ID.
- 6. Style the HTML page with appropriate formatting and headings.
- 7. Create a servlet named "ProductServlet" that extends HttpServlet.
- 8. Override the doGet() method in the "ProductServlet" class.
- 9. Within the doGet() method:
 - Retrieve the product ID parameter from the request.
 - Establish a connection to the MySQL database using the provided DBConnection class.
- Define a SQL query to retrieve the product details from the "product" table based on the provided ID.
 - Prepare the SQL statement with the product ID parameter.
 - Execute the SQL query and obtain the result set.
 - If a product is found (i.e., the result set has at least one row):
 - Retrieve the product details from the result set (ID, name, description, price).
 - Set the response content type to "text/html".
 - Generate and send the HTML response containing the retrieved product details.
 - If no product is found (i.e., the result set is empty):
 - Set the response content type to "text/html".
 - Generate and send an HTML response indicating that the product was not found.
- Close the database connection, result set, and statement using the provided DBConnection class.
- 10. Configure the web application deployment descriptor (web.xml) to map the servlet to the appropriate URL.
- 11. Package the HTML file and servlet Java file into a WAR file.
- 12. Deploy the WAR file to a web server or servlet container (e.g., Apache Tomcat).

- 13. Start the web server or servlet container.
- 14. Access the application using the appropriate URL in a web browser.
- 15. Enter a product ID in the form and submit it.
- 16. The servlet retrieves the product details from the database and displays them to the user.
- 17. End.