PRODUCTLOOKUPSERVLET. JAVA

```
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@WebServlet("/ProductLookupServlet")
public class ProductLookupServlet extends HttpServlet {
  private static final long serial Version UID = 1L;
  // JDBC connection parameters
  private static final String jdbcUrl =
"jdbc:mysql://localhost:3306/MPHASISNEWDB1";
  private static final String dbUsername = "root";
```

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private static final String dbPassword = "root123";
  protected void doPost(HttpServletRequest request,
HttpServletResponse response)
       throws ServletException, IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    // Get the product ID entered by the user
     String productId = request.getParameter("productId");
     // Initialize the JDBC connection
     Connection connection = null:
    try {
       // Establish a connection to the database
       connection = DriverManager.getConnection(jdbcUrl,
dbUsername, dbPassword);
       // Prepare a SQL query to retrieve product details
       String sql = "SELECT * FROM products WHERE id = ?";
       PreparedStatement preparedStatement =
connection.prepareStatement(sql);
       preparedStatement.setString(1, productId);
```

```
// Execute the query
       ResultSet resultSet = preparedStatement.executeQuery();
       // Check if a product was found
       if (resultSet.next()) {
          String productName = resultSet.getString("name");
          String product Description =
resultSet.getString("description");
          double productPrice = resultSet.getDouble("price");
          // Display product details
          out.println("<html><head><title>Product
Details</title></head><body>");
          out.println("<h1>Product Details</h1>");
          out.println("Product ID: " + productId + "");
          out.println("Product Name: " + productName + "");
          out.println("Description: " + productDescription +
"");
          out.println("Price: $" + productPrice + "");
          out.println("</body></html>");
       } else {
          // Product not found
out.println("<html><head><title>Error</title></head><body>");
          out.println("<h1>Product Not Found</h1>");
```

```
out.println("No product found for ID: " + productId +
"");
          out.println("</body></html>");
       }
     } catch (SQLException e) {
       // Handle database errors
       out.println("<html><head><title>Error</title></head><body>");
       out.println("<h1>Database Error</h1>");
       out.println("Error: " + e.getMessage() + "");
       out.println("</body></html>");
     } finally {
       // Close the database connection
       if (connection != null) {
          try {
             connection.close();
          } catch (SQLException e) {
             e.printStackTrace();
          }
       }
     }
  }
}
```

product_lookup.html

```
<!DOCTYPE html>
<html>
<head>
<title>Product Lookup</title>
</head>
<body>
<h1>Product Lookup</h1>
<form action="ProductLookupServlet" method="post">
<label for="productId">Enter Product ID:</label>
<input type="text" id="productId" name="productId" required>
<input type="submit" value="Lookup Product">
</form>
</body>
</html>
```

MySql Query

