KIRAN KUMAR D NATIKAR

EMP ID: 2576955

ALGORITHM:

Retrieving the Product Details Using the Product ID:

- Import necessary Java libraries for handling servlets, database connections, and input/output operations.
- Define the "Search" class that extends the "HttpServlet" class.
- Override the "doPost" method to handle HTTP POST requests.
- Set the response content type to "text/html" and get a PrintWriter object for writing the response.
- Retrieve the "productid" parameter from the request and parse it as an integer.
- Use JDBC (Java Database Connectivity) to establish a connection to the MySQL database. Provide the appropriate database URL, username, and password.
- Prepare a parameterized SQL statement using a PreparedStatement object to prevent SQL injection attacks. The statement selects all rows from the "eproduct" table where the "productid" column matches the input parameter.
- Create an HTML table structure to display the search results. Set the table caption to "Product Result".
- Execute the SQL statement and obtain a ResultSet containing the query results.
- Retrieve the metadata of the ResultSet to get the total number of columns.
- Generate the table header row using a loop that iterates over the column names from the metadata.
- Iterate over the ResultSet using a loop and print each row of the result set as a table row. Retrieve the values of each column using the appropriate ResultSet methods.
- Close the HTML table.
- Catch any exceptions that occur during the database connection or query execution and print the exception details.