

## To Backup Created Packages and Test Them for Stock Management Application.

### Source Code

```
package com.app.DatabaseConnecttion;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

public class DatabaseConnector {

    private static final String JDBC_URL = "jdbc:mysql://localhost:3306/ecommerce";
    private static final String USERNAME = "root";
    private static final String PASSWORD = "root";

    static {
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
        } catch (ClassNotFoundException e) {
            e.printStackTrace();
        }
    }

    public static Connection getConnection() throws SQLException {
        return DriverManager.getConnection(JDBC_URL, USERNAME, PASSWORD);
    }
}
```

```

    }
}

package com.app.ecommerce.Test;

import org.testng.annotations.Test;

import com.app.DatabaseConnecttion.ProductDAO;

public class ECommerceApp {

    @Test

    public void testCheckStockAvailability() {

        String productName = "Laptop";

        ProductDAO productDAO = new ProductDAO();

        int stockQuantity = productDAO.getStockQuantity(productName);

        // Display stock information

        System.out.println("=====");

        System.out.println("| Stock Availability |");

        System.out.println("=====");

        System.out.println("| Product Name | Stock Quantity |");

        System.out.println("=====");

        System.out.printf("| %-13s | %-15d |%n", productName, stockQuantity);

        System.out.println("=====");

    }

}

package com.app.DatabaseConnecttion;

import java.sql.Connection;

```

```
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;

public class ProductDAO {

    public int getStockQuantity(String productName) {
        int stockQuantity = 0;

        try (Connection connection = DatabaseConnector.getConnection()) {
            String sql = "SELECT stock_quantity FROM products WHERE product_name = ?";
            try (PreparedStatement preparedStatement = connection.prepareStatement(sql)) {
                preparedStatement.setString(1, productName);
                ResultSet resultSet = preparedStatement.executeQuery();

                if (resultSet.next()) {
                    stockQuantity = resultSet.getInt("stock_quantity");
                }
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }

        return stockQuantity;
    }
}
```

```
}
```

```
// public List<String> getSimilarProducts(String productName) {  
//  
//          //=====TO fetch all Products from Db  
//    List<String> allProducts = new ArrayList<>();  
//  
//    try (Connection connection = DatabaseConnector.getConnection()) {  
//        String sql = "SELECT product_name FROM products";  
//        try (PreparedStatement preparedStatement = connection.prepareStatement(sql)) {  
//            ResultSet resultSet = preparedStatement.executeQuery();  
//  
//            while (resultSet.next()) {  
//                allProducts.add(resultSet.getString("product_name"));  
//            }  
//        }  
//    } catch (SQLException e) {  
//        e.printStackTrace();  
//    }  
//    return allProducts;  
// }  
//}
```

```
//=====TO Fetch Only similar products from DB  
//    List<String> similarProducts = new ArrayList<>();  
//
```

```
// try (Connection connection = DatabaseConnector.getConnection()) {  
//     String sql = "SELECT product_name FROM products WHERE product_name LIKE ?";  
//     try (PreparedStatement preparedStatement = connection.prepareStatement(sql)) {  
//         preparedStatement.setString(1, "%" + productName + "%");  
//         ResultSet resultSet = preparedStatement.executeQuery();  
//  
//         while (resultSet.next()) {  
//             similarProducts.add(resultSet.getString("product_name"));  
//         }  
//     }  
// } catch (SQLException e) {  
//     e.printStackTrace();  
// }  
//  
// return similarProducts;  
// }  
// }
```