

Test Cases Description

There are 3 Test Cases for the project that summarize the major functions implemented in the project.

The first test case is the LoginTest which checks the database login credentials. The first test in LoginTest class checks if the system returns the correct employee's name given the username of the employee. The test takes in username of the employee and returns the corresponding name of the employee from the database. This test class also verifies the DB Connection as well through these tests. Our Project has a function to give access to the system based on employee position, managers get a different access than other employees and the second test in LoginTest precisely checks that. The second test checks whether a given employee is a manager or not and in turn gives access to the system according to the returned value. This test checks the isEmployeeManagerByUsername method which has a Boolean return value, the test takes in an employee username and returns true or false depending upon whether the username is of a manager or not.

The second test case is the ProductTest which checks information about products in the database. A major function of the project is to display accurate product information including product ID and prices. The first test in this test class checks for product prices saved in the database. The test takes in product ID and returns the corresponding price of the product and checks if it returns the correct price for the product. The next test in this class returns the name of the product based on the product ID. Just like the previous test, it takes in product ID and returns the corresponding product name based on the ID. The last test in this Test class checks if a product exists. This method is important in case an employee puts in a wrong code for the product, this method will first check if such a product exists or not and prevent errors on the cashier page. The checkProductExists method has Boolean return value and the test gives in a product ID and returns true or false depending upon if a product exists in the database. This test checks if the method is working and is returning an accurate value based on product ID.

The third test case class is the SuppliersTest which checks information about the Suppliers of the products listed in the system. Our system keeps a track of product suppliers along with products. The first test checks if the method returns correct Supplier name when given a supplier ID which is auto generated by the system. getSupplierNameById method takes in an integer ID and returns a supplier name according to that ID and this test checks that method. The second test checks if the system gives out the correct supplier's name base on the product. This method matches the supplier with the product that the supplier is providing. getProductSupplier method takes in a product ID and uses the database to find the supplier of that specific product. This test checks if the method returns the supplier's name according to the product ID.