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# Test Report

for

**hANUT**

Version 1.0 approved

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Test Report should include the following:

### White Box Testing

- Write the code snippet and draw the corresponding CFG (Control Flow Graph) for any three important functions related to your project.
- Find out the cyclomatic complexity, independent paths and write test cases to exercise each independent path for all three CFGs.

### System Testing

Identify any three important functionalities and write the test case information in a tabular format. (Example is given below for reference)

#### Test Case 1

<b>Test Case Name:</b> Login as Customer <b>Short Description:</b> Test the login functionality in hANUT			
<b>Preconditions:</b> The user has a valid username and password – The user has registered on hANUT software and his details are stored in the database. The system displays the login page.			
Step	Action	Expected System Response	Pass/Fail
1	Enter the user's username	The system displays a message asking the user to enter the password.	Pass
2	Enter the user's password	The system verifies the username and password and checks if it is valid.	Pass
3	Click 'Login' button	The system retrieves the details of the customer from the database. The system displays a dialog box that the login is successful.	Pass
4	Click "OK" button	The system displays the home page of the software.	Pass
5	Check Post Condition		
<b>Post Condition:</b> 1. The current user in the session is saved in the database.			

## Test Case 2

<b>Test Case Name:</b> Add to Cart			
<b>Short Description:</b> Test the functionality to add product in cart			
<b>Preconditions:</b> The user has logged in the software. The user is the current user of the session and is browsing the home page to buy products. The cart for the customer is empty. The system displays the home page.			
Step	Action	Expected System Response	Pass/Fail
1	Click the product label the user wants to buy.	The system displays the product page with the details of the product including price, rating and seller details.	Pass
2	Click 'Add to Cart' button	The system displays a message that the product is added to the cart successfully.	Pass
3	Click 'View Cart' button	The system displays the cart and wishlist page. The system displays the product added by the customer in the cart list with it's image, product name and price.	Pass
4	Click 'Place Order' button.	The system displays the payment page.	Pass
5	Check Post Condition		
<b>Post Condition:</b> 1. The product is added in the cart and is saved in the database.			

### Test Case 3

<b>Test Case Name:</b> Registration			
<b>Short Description:</b> Test to register as a new user in the software			
<b>Preconditions:</b> The user doesn't have an account in the software. – The user has a unique username and the email id is not used before. The user's details are not saved in the database. The system displays the login page.			
Step	Action	Expected System Response	Pass/Fail
1	Click the "Register" button	The system asks if user is a new user and displays the register page.	Pass
2	Enter username and password.	The system verifies the unique username and ask the user to confirm (re-enter) the password.	Pass
3	Re-enter the password and enter other details.	The system checks if both passwords are same. The system stores the details of the user in the database	Pass
4	Click "Submit" button	The system displays the login page.	Pass
5	Check Post Condition		
<b>Post Condition:</b> 1. The user details have been inserted and saved in the database. 2. The user can now login the software.			

## Login

```
1. private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
2.     String emailid = jTextField2.getText(),password = new
    String(jPasswordField1.getPassword());
        boolean verified=false;
3. try{
4.     String query="SELECT id,password FROM cred where
    email='"+emailid+"'";
        ResultSet rs=SqlQ.retrive(query);
5.     if(rs.next()){
6.         jLabel1.setVisible(false);
            String pass=rs.getString("password"),
            username=rs.getString("id");
7.         if(pass.equals(password)){
8.             Session.logged(username);
                verified=true;                }
            else
9.             jLabel6.setVisible(true);        }
        else{
10.            jLabel1.setVisible(true);        }
11.     if(verified){
12.         jLabel6.setVisible(false);
13.         switch(Session.user_type()){
14.             case 'C':new AllProductPage().setVisible(true); break;
15.             case 'S':new SellerPage().setVisible(true); break;
16.             case 'M':new SellerPage().setVisible(true); break;
        }
17.         this.dispose();                }
    }
18. catch(Exception e){System.out.println(e);}
19. }
```

## Add to Cart

```
1. private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
2. String query= "select count(p_id) as count from cart where
   cust_id="+Session.curr_user()+"";

   ResultSet rs=SqlQ.retrive(query);

3. try{
4. if(rs.next()){
5. if(Integer.parseInt(rs.getString("count"))>=3){
6.      JOptionPane.showMessageDialog(this, "You cant add more than 3
   products in cart");

   }

7. else{

   query="insert into cart
   values('"+Session.curr_user()+"','"+Session.selectedProd()+"');"

   SqlQ.updateq(query);      }

   }

   }

8. catch(SQLException e){

   System.out.println(e);

   }

9.}
```

## New Registration

1. private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
2. String name = jTextField1.getText();  
    String address = jTextField5.getText();  
  
    String phoneno = jTextField6.getText();  
  
    String email = jTextField7.getText();  
  
    String password = new String(jPasswordField1.getPassword());  
    String password2 = new String(jPasswordField2.getPassword());  
  
    boolean success=true;
3. if(!password2.equals(password)){  
    jLabel5.setVisible(true);
4. try{
5. if(jRadioButton1.isSelected())  
    {  
  
    String query = "insert into customer(name,phone,email,address)  
    values('"+name+"','"+phoneno+"','"+email+"','"+address+"');";  
  
    SqlQ.updateq(query);  
  
    us= SqlQ.retrive("select id from customer where email='"+email+"';");  
    }
6. else if(jRadioButton4.isSelected())  
    {String query = "insert into seller(name,phone,email,address)  
    values('"+name+"','"+phoneno+"','"+email+"','"+address+"');";  
  
    SqlQ.updateq(query);  
  
    us= SqlQ.retrive("select id from seller where email='"+email+"';");  
    }
7. else if(jRadioButton5.isSelected())

```
{String query = "insert into manufacturer(name,phone,email,address)
values('"+name+"','"+phoneno+"','"+email+"','"+address+"');";

SqlQ.updateq(query);

us= SqlQ.retrive("select id from manufacturer where email='"+email+"';");}
```

8. else{

```
success=false;
```

```
JOptionPane.showMessageDialog(null, "Please choose the type of
account");
```

```
}
```

9. if(us.next() && success){

```
String id=us.getString("id");
```

```
String query = "insert into cred
values('"+email+"','"+id+"','"+password+"');";
```

```
SqlQ.updateq(query);
```

```
LoginPage l = new LoginPage();
```

```
this.setVisible(false);
```

```
l.setVisible(true);
```

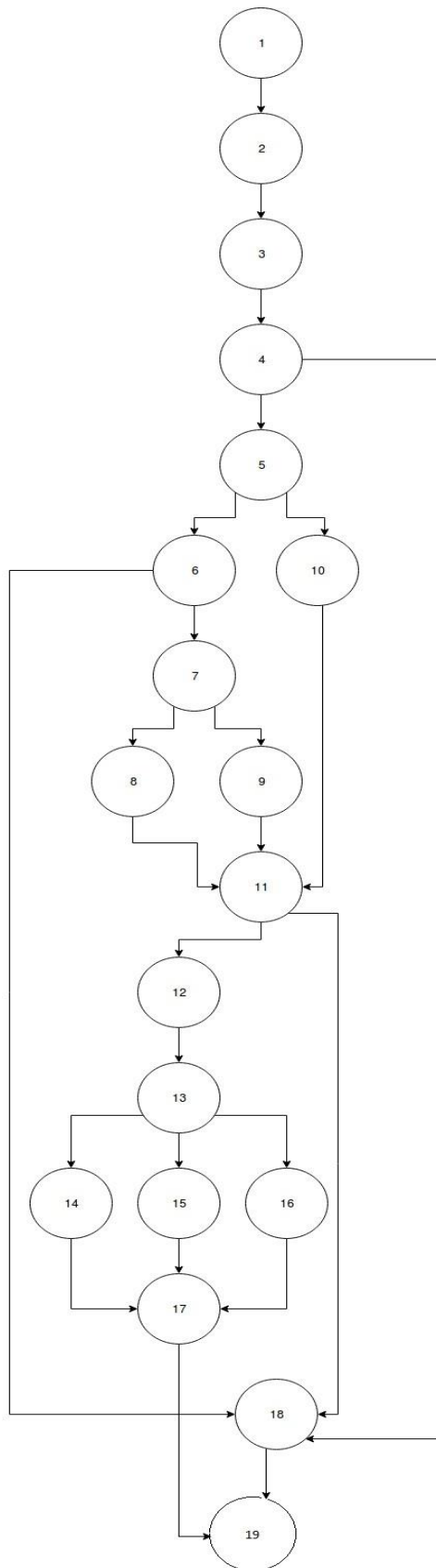
```
}}
```

10.catch(Exception e){

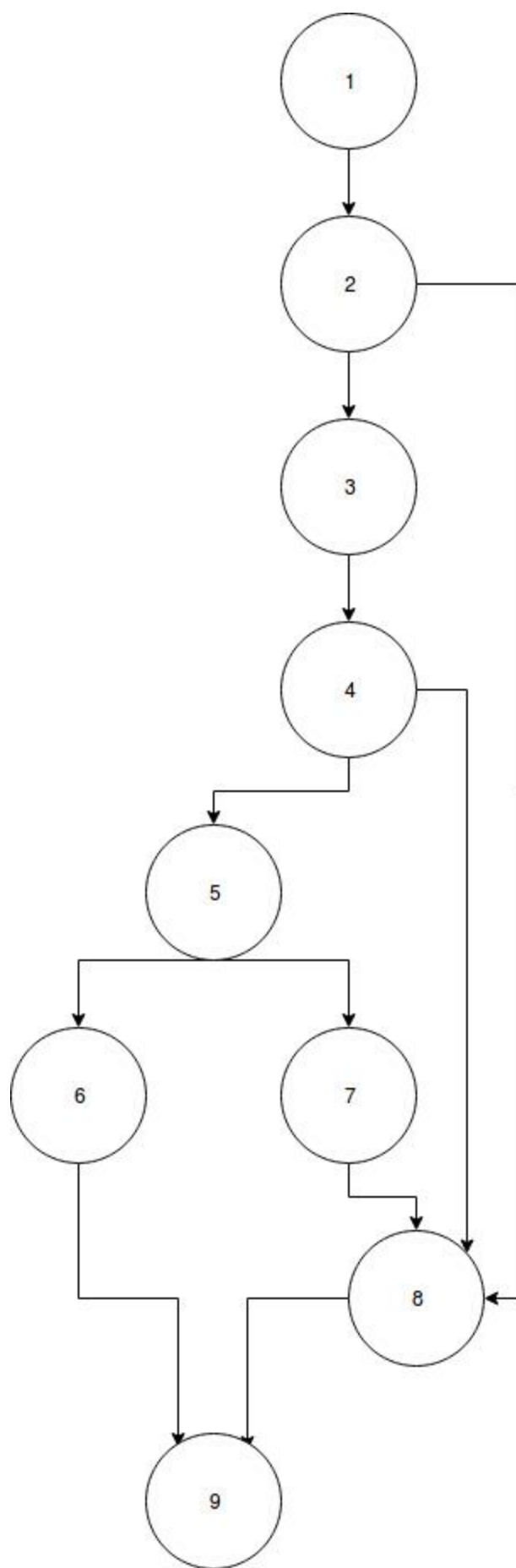
```
JOptionPane.showMessageDialog(null, "Sorry some error has occured");
```

11.}}

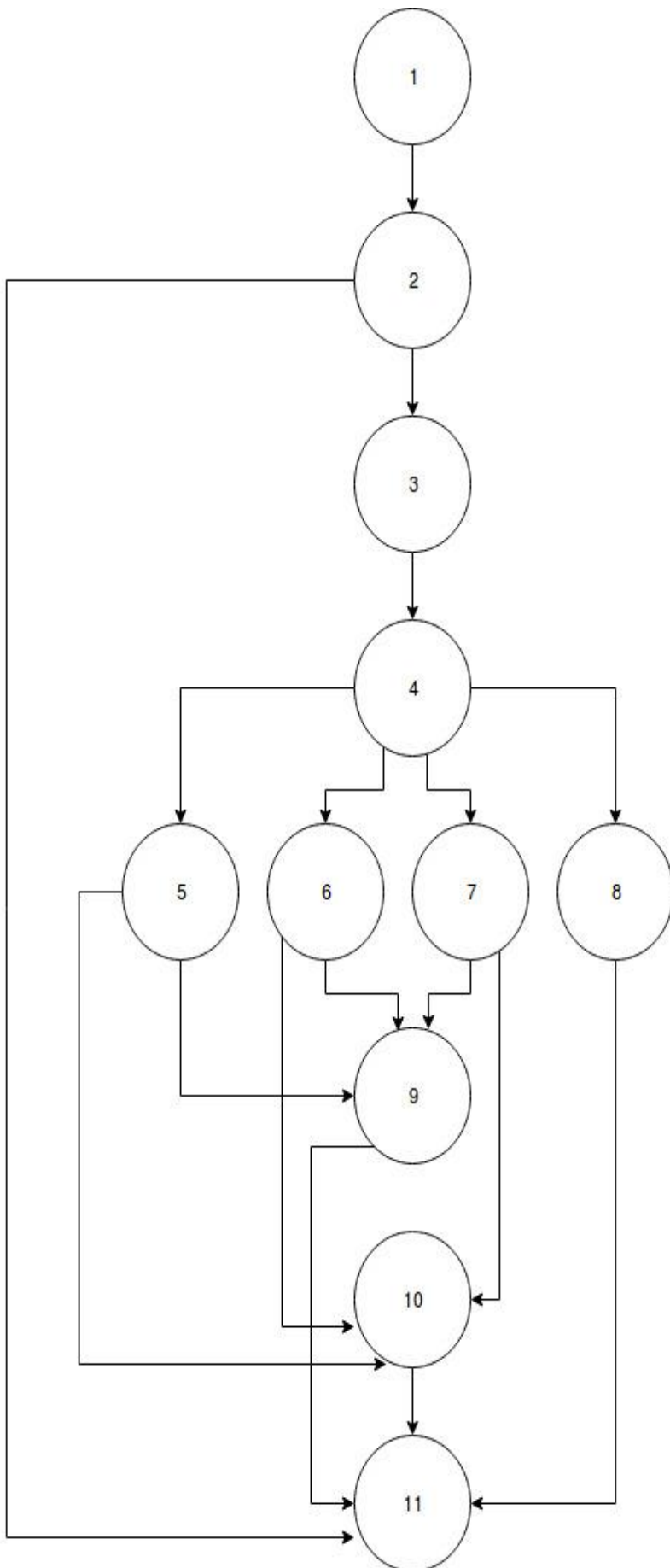




Complexity: 8  
Independent Paths: 11



Complexity: 3  
Independent Paths: 4



Complexity: 7  
Independent Paths: 8

## **Login:**

### **Test Case 1:**

Path: 1,2,3,4,5,6,7,9,11,13,15,17,19

### **Sample Input:**

{customer}

[rkhator@gmail.com](mailto:rkhator@gmail.com)

password@123

### **Output:**

Login Successful!

### **Test Case 2:**

Path: 1,2,3,4,18,19

### **Sample Input:**

{customer}

[rkhator@gmail.com](mailto:rkhator@gmail.com)

password@124

### **Output:**

Login failed!

### **Test Case 3:**

Path: 1,2,3,4,17,19

### **Sample Input:**

{customer}

[rkhator@gmail.com](mailto:rkhator@gmail.com)

**Output:**

Password field is empty

**Test Case 4:**

Path: 1,2,3,4,14,19

**Sample Input:**

{customer}

password@123

**Output:**

Username field is empty

**Test Case 5:**

Path: 1,2,3,6,8,10,11,13,15,17,19

**Sample Input:**

{seller}

csaraf@gmail.com

pass007

**Output:**

Login Successful as Seller

**Test Case 6:**

Path: 1,2,3,7,9,11,13,15,17,19

**Sample Input:**

{manufacturer}

snayak19@gmail.com

mit372

**Output:**

Login Successful as Manufacturer

## **Add To Cart:**

### **Test Case 1:**

Path: 1,2,3,4,5,6,9

### **Sample Input:**

View Product

Add To Cart

View Cart

### **Sample Output:**

Product added to Cart

### **Test Case 2:**

Path: 1,2,9

### **Sample Input:**

View Product

Add To Cart

### **Sample Output:**

Stock not available

### **Test Case 3:**

Path: 1,2,3,4,5,7,8,9

### **Sample Input:**

View Product

Add To Cart

**Sample Output:**

You can't add more than 3 products in cart



## **New Registration:**

### **Test case 1:**

Path: 1,2,11

### **Sample input:**

raghav

C/315, Vashi Plaza, Sector 17, Vashi

9876543210

raghav@gmail.com

password@123

password@124

### **Output:**

Password doesn't match!

### **Test case 2:**

Path: 1,2,3,4,5,10,11

### **Sample input:**

{customer}

raghav K

C/315, Vashi Plaza, Sector 17, Vashi

987456320A

rkhaton@gmail.com

password#123

password#123

### **Output:**

Sorry something went wrong! Please check your details

**Test case 3:**

Path: 1,2,3,4,5,9,11

**Sample input:**

{customer}

Raghav Khator

Hs 27, Main Market, Kailash Colon

9571524123

rkhator@gmail.com

ragz@99

ragz@99

**Output:**

Login Successful

**Test case 4:**

Path: 1,2,3,4,6,10,11

**Sample input:**

{seller}

Chansi

33 /, Hennur Main Road, Lingarajpuram

7874562301

c\_email

cuteMe@99

cuteMe@99

**Output:**

Sorry something went wrong! Please check your details

**Test case 5:**

Path: 1,2,3,4,6,9,11

**Sample input:**

{seller}

Chansi

33 /, Hennur Main Road, Lingarajpuram

7874562301

chansi.s@gmail.com

cuteMe@99

cuteMe@99

**Output:**

Login Successful

**Test case 6:**

Path: 1,2,3,4,7,10,11

**Sample input:**

{manufacturer}

Sahil N

B/12 Shukla Cmpd, Dahisar

9874bb1204

Sahil@gmail.com

SNqwerty#123

SNqwerty#123

**Output:**

Sorry something went wrong! Please check your details

**Test case 7:**

Path: 1,2,3,4,7,9,11

**Sample input:**

{manufacturer}

Sahil N

B/12 Shukla Cmpd, Dahisar

9874091204

Sahil@gmail.com

SNqwerty#123

SNqwerty#123

**Output:**

Login Successful

**Test case 8:**

Path: 1,2,3,4,8,11

**Sample input:**

{}

Prashant

house 56 Shukla Cmpd, Kanpur

9874563204

pras@gmail.com

qwerty#123

qwerty#123

**Output:**

Please choose the type of accounts