# PHARMACY SYSTEM

#### **White Box Testing**

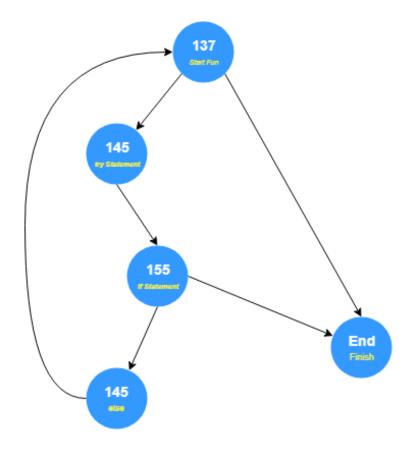
Function: Search Button (search page.java).

Fun. Located: From 134 - To 178.

#### Code:

```
private void jButtonsearchActionPerformed(java.awt.event.ActionEvent evt)
        String medicineName=SearchTextField.getText();
       if(medicineName.isEmpty())
            JOptionPane.showMessageDialog(this, "Please, Enter your a medicine name");
 Connection con = null;
 Statement stmt = null;
 ResultSet result = null;
        try
            if(result.next())
                int amount = result.getInt("amount");
                notes = result.getString("notes");
                if(amount==0)
                JOptionPane.showMessageDialog(this, "medicine out of stock "+notes);
                else JOptionPane.showMessageDialog(this,"medicine available "+notes);
            }
            else
                JOptionPane.showMessageDialog(this,"Invalid medicine name");
        }catch(Exception ex)
        finally
    }
```

# **Testing Graph:**



### **Cyclomatic Complexity:**

- V(G) = Closed Path +1 = 2+1= 3.
- V(G)= Predicates + 1 = 2 + 1 = 3.
- V(G) = E-N + 2 = 6-5+2 = 3.

### Paths:

**#1:** 137,END.

**#2:** 137,145,155,145,137.

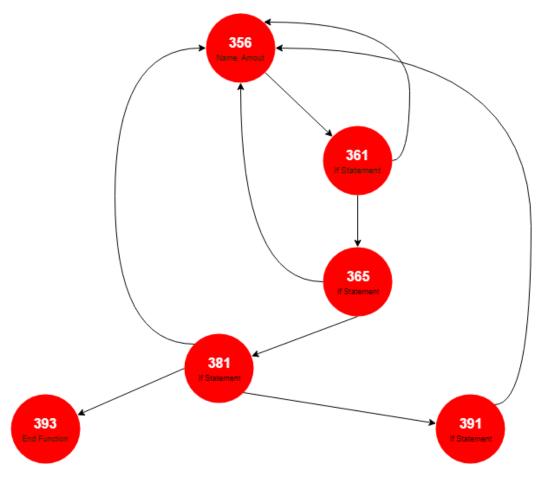
Function: Add Amount Button <Tab:Edit Amount> (Data\_Entry.java).

Fun. Located: From 354 - To 410.

#### Code:

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt)
{
        String name=jTextField2.getText();
        System.err.println("ww");
        String am =jTextField3.getText();
        int amount=Integer.parseInt(am);
        int Amount = 0;
        if(name.isEmpty()){
            JOptionPane.showMessageDialog(this, "Please enter medicine name");
            return;
        if(am.isEmpty()){
            JOptionPane.showMessageDialog(this, "Please amount Of Medicine");
           return;
        Connection con = null;
        Statement comand=null;
        ResultSet rst =null;
        try {
           .....
          String a="select * from medicine "+"WHERE m name='"+name+"";
          rst = comand.executeQuery(a);
          if(rst.next())
               Amount = rst.getInt("amount");
               JOptionPane.showMessageDialog(this,"Invalid medicine name");
         String sql = ("UPDATE medicine set amount="+(amount+Amount)+"WHERE
m name='"+name+"'") ;
                int affectsRows = comand.executeUpdate(sql);
            if(affectsRows == 1)
                JOptionPane.showMessageDialog(this, "Successful Update Amount");
            else
                JOptionPane.showMessageDialog(this, "Incorrect Amount !!!");
```





# **Cyclomatic Complexity:**

- V(G) = Closed Path +1 = 4+1 = 5.
- V(G)= Predicates + 1 = 4 + 1 = 5.
- V(G) = E-N + 2 = 9-6+2 = 5.

### Paths:

**#1:** 356,361,365,381,393.

**#2:** 356,361,356.

**#3:** 356,361,365,356.

**#4:** 356,361,365,381,356.

**#5**: 356,361,365,381,391,356