TEST CASES

for

Medical Shop Automation Software

Version 1.0 approved

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Contents

Automated Testing :

Refer test.py
- All input fields for the forms are tested for whether the input is clean (valid) data.
- The functions tested are ExpiredListView, PurchaseListView and RevenueandProfitView.
- The forms tested for clean data are EmployeeData, MedicineData, VendorData, SalesData and Stock.

Manual testing :

1 White Box Testing

1.1 Unit test cases

1.1.1 User class -addmedicine()

• Input:

      Trade name : string (Benadryl)

      Generic name : string(Diphenhydramine 25)

      unit sell price : double(10)

      purchase price :double(5)

• Condition: check if the medicine exists in database

• Expected Output:

      Medicine id : string (MED1)

1.1.2 User class - addvendor()

• Input:

      Vendorname : string (Suriya)

      Vendor Email : string(Suriya07@yahoo.com)

      Phone : string(6302383205)

      Address : string(61,park street , New Delhi)

      Medicine Id Sold : String(MED1;MED2)

• Condition: check if the Vendor details exists in database

• Expected Output:

      Vendor id : string (VEN1)

1.1.3 User class - addstock()

• Input:

      Vendor ID : string(VEN1)

      Medicine ID :string(MED1)

      Batch ID : string(xxxx)

      Quantity : int(1)

      Expiry Date : Date(4/12/2022)

- Condition: check if the stock details exists in database
- Expected Output:
  Total Amount : double(205.50)

1.1.4 Bill class - sellmedicine()
- Input:
  Customer Name : string(Vijay)
  Customer number : string(9345678012)
  Medicine ID: string(MED1)
  Quantity : double(1)
- Condition: Check if the medicine id exists in the database
- Expected Output:
  Total Amount : double()

1.1.5 User Class -searchmedicine()
- Input:
  Medicine ID : string(MED1)
- Condition: Check if the medicine id exists in the database
- Expected Output: True

1.1.6 User Class - searchvendor()
- Input:
  Vendor ID : string(VEN1)
- Condition: Check if the medicine id exists in the database
- Expected Output: True

2 Black Box testing

2.1 add medicine

Add medicine is pressed after entering details

    2.1.1 Case when no such medicine exists

        Expected output: Medicine ID gets generated

    2.1.2 Case when medicine exists

Expected output: Pop up showing Error ! Already exists in a popup

2.1.3 Case when required details are not entered.
Expected output: Pop up showing Error ! Details are incomplete

2.2 add vendor

Add vendor is pressed after entering details

2.2.1 Case when no such vendor details exists
Expected output: Vendor ID gets generated

2.2.2 Case when entered vendor already exists
Expected output: Pop up showing Error ! Already exists

2.2.3 Case when required details are not entered.
Expected output: Pop up showing Error ! Details are incomplete

2.3 add stock

Add stock is pressed after entering details

2.3.1 Case when we need to add more than 1 medicine type
Expected output : Add row button can be pressed to add one more row to enter another medicine type .

2.3.2 Case when Vendor ID entered is wrong
Expected output: Pop up showing Error ! No such Vendor ID exists.

2.3.3 Case when Medicine ID entered is wrong
Expected output: Pop up showing Error ! No such Vendor ID exists.

2.3.4 Case when required details are not entered.

Expected output: Pop up showing Error ! Details are incomplete

    2.3.5 Case when successful

        Expected output : Total amount appears

    2.3.6 Case when successful and generate slip is entered

        Expected output : Generate slip button can be pressed to generate the cheque for the stock in the name of the vendor.

2.4 sell medicine

    2.4.1 Case when we need to add more than 1 medicine type

        Expected output : Add row button can be pressed to add one more row to enter another medicine type

    2.4.2 Case when Medicine ID entered is wrong

        Expected output: Pop up showing Error ! No such Vendor ID exists.

    2.4.3 Case when required details are not entered.

        Expected output: Pop up showing Error ! Details are incomplete

    2.4.4 Case when successful

        Expected output : Total amount appears

    2.4.5 Case when successful and generate slip is entered

        Expected output : Generate slip button can be pressed to generate the cheque for the stock in the name of the vendor.

2.5 medlist

    2.5.1 Case when successful

        Expected output: PDF is generated containing whole set of medicines

    2.5.2 Case when edit option is clicked

Expected output : Clicking on the edit button deletes the entry for the corresponding medicine in the database and redirects to the add-new-medicine page.

2.6 vendorlist

2.6.1 Case when successful

Expected output: PDF is generated containing whole set of vendors

2.6.2 Case when edit option is clicked

Expected output : Clicking on the edit button deletes the entry for the corresponding vendor in the database and redirects to the add-new-vendor page.

2.7 viewusers

2.7.1 Case when successful

Expected output: PDF is generated containing a whole set of employees.

2.7.2 Case when edit option is clicked

Expected output : Clicking on the edit button deletes the entry for the corresponding user in the database and redirects to the add-new-user page.

2.8 saleslist

2.8.1 Case when successful

Expected output: PDF is generated containing a whole set of sales occured.

3 System testing

3.1 Performance Criteria

• Due to the initial loading of the configurations by the Hibernate framework, the system lags a bit but gives competently fast results subsequently.

• Also, the PDF viewer takes up some time to load in certain cases. However, as it is an external PDF viewer, the setting up is expected to take time.