**Medicine Distributer & Shopping System**

***All Cure Medical*** ***Shop*** is a medicine distributing & retail medicine company which has several outlets different cities in India. Recently this company decide to introduce automations.

The Company has two divisions

***Wholesales***: Here registered customers (themselves are small retail shop owners) purchase huge numbers of medicine for their business establishments. No Single sale is less than Rs 10000/-. Sales are in credit. Until one customer clears it’s dues , 2nd order cannot be placed. Items are sold in a fixed Wholesale rate. Payments are made through Credit card, Debit Card or NetBanking.

**Retail**: Here not registered customers purchase medicine through retail rate via salesperson. Each salesperson earns commission 5% on equal or above a sale of Rs 2500. Payments are made through Cash, Debit Card, Credit Card.

***The purpose of the System***

**The** followings are the important Services & modules of the system:

1. Product Service
2. Product addition ,Fare & Stock fixation (including stock & fare modification)
3. Customer Service
4. Customer addition & status modification.
5. User Service
6. User Registration
7. Order Service
8. Wholesale Order Placing
9. Payment against order.
10. Retail Sale & bill generation.

***Users of the System***

There are three categories of Users in this system.

1. Super
2. Salesperson
3. Registered Customer

***Scope of the System***

The details of each modules are as follows:

1. **Product Addition**:- Product is maintained as follows:-

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ProductId | Name | WholesaleRate | RetailRate | Stock |
| P1001 | ABC | 25 | 40 | 1000 |
| P1002 | PQR | 200 | 250 | 2000 |
| P1003 | XYZ | 65 | 75 | 1500 |

The Retail Rate is always higher than Wholesale rate. When a new product is entered Product ID will be auto generated. Rate fixation or Stock addition, new Product addition can be done by Super user only.

1. **Customer Addition:-** Customer information is maintained as follows:-

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CNR | Name | Address | Contact No | Email | Status |
| 124568921 | Bobb Haward | Raheja Nagar, Hyderabad | 7843567810 | [bobb@gmail.com](mailto:bobb@gmail.com) | Pending |
| 178461116 | Clare Miller | Anna Nagar,Chennai | 0443245186 | [clare12@yahoo,com](mailto:clare12@yahoo,com) | Cleared |
| 178461115 | Tom Hawk | WhiteField, Bangalore | 849452123 | [tomhawk@rediff.com](mailto:tomhawk@rediff.com) | Pending |
| 124566921 | John Brown | Andheri,Mumbai | 0226741245 | [john.brown@gmail.com](mailto:john.brown@gmail.com) | Cleared |

Customer means Wholesale customer. Super user adds a new customer based on company’s rule.

Customer Id is auto generated. Status indicates payment status of last order. Status is of two types Pending or cleared. Default status is Cleared. When a Customer place an order, status automatically changed to Pending. When Customer made payment again Status returned to Cleared.

1. **User Registration :-** User information will be a follows:-

|  |  |  |  |
| --- | --- | --- | --- |
| UserName | Password | Email | UserType |
| 124566921 | abc123$ | [john.brown@gmail.com](mailto:john.brown@gmail.com) | Ordinary |
| S1005 | pqr-456 | [eric.hall1970@gmail.com](mailto:eric.hall1970@gmail.com) | Super |
| S1001 | rst854!y | [lou.moore80@yahoo.com](mailto:lou.moore80@yahoo.com) | Salesperson |

Super User can create any user. Customer user can access only Wholesale Order & Payment Modules. Salesperson access only retail sales & bill modules. Only an existing Super user can create another Super user.

1. **Wholesale Order Booking:-** Both Customer & Super user can perform Order booking. Before order placed, status of Customer will be checked, if status is pending then Order cannot be proceeded . Minimum 2 items and maximum 6 items can be placed for order. If the qty ordered for a product is higher than Stock, Order will be refused to process. After order finalization , products’s stock will be deducted, status of Customer turns pending. Order number will be auto generated. Date of Order will be system date.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| OrderNo | CNR | ProductId | Rate | Quantity | Amount | Status | Booking Date |
| 124568921 | 124568921 | P1001 | 25 | [200](mailto:bobb@gmail.com) | 5000 | Paid | 03-07-2018 |
| 124568921 | 124568921 | P1002 | 200 | [100](mailto:clare12@yahoo,com) | 20000 | Paid | 03-07-2018 |
| 124568921 | 124568921 | P1003 | 65 | [100](mailto:tomhawk@rediff.com) | 6500 | Pending | 03-07-2018 |
| 124566922 | 124566921 | P1002 | 200 | [150](mailto:john.brown@gmail.com) | 30000 | Paid | 31-07-2018 |
| 124566922 | 124566921 | P1003 | 65 | [100](mailto:john.brown@gmail.com) | 6500 | Pending | 31-07-2019 |

1. **Order Payment: -** Both Ordinary & Super user can perform Order Payment. The module begins with Order Number as input, displays Order details. If the Payment is within 3 days of Order 5% discount will be available. It asks for mode of payment, in case Credit/Debit card card-number is asked, in case netbanking transaction id is requested. The date of payment will be system date. The status will be updated to clear for customer.
2. **Retail Sale & Bill generation:-** Both Salesperson & Super user can perform this task. Here rate will be the retail’s . If the qty ordered for a product is higher than Stock, bill will be refused to process. After bill finalization , products’ stock will be deducted, Bill number will be auto generated. Date of Bill will be system date.Salesperson’s id will be auto entered . If the bill amount exceeds 2500 salesperson will earned a commission @5% of above amount of 2500. This will be auto calculated.

Following is the Salesperson details

|  |  |  |
| --- | --- | --- |
| ID | Name | Commision |
| S1001 | Eva Green | 1200 |
| S1002 | Daisy Louis | 0 |
| S1003 | Joyce Baker | 1500 |

Every salesperson view his/her details only. Super user can view all salespersons’ details.

Following is the Bill details

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| BillNo | Name | ProductId | Rate | Quantity | Amount | Booking Date | Salesperson |
| 124568921 | Bobb Haward | P1001 | 40 | [20](mailto:bobb@gmail.com) | 800 | 03-07-2018 | S1001 |
| 124568921 | Bobb Haward | P1002 | 250 | [1](mailto:clare12@yahoo,com) | 250 | 03-07-2018 | S1001 |
| 124568921 | Bobb Haward | P1003 | 75 | [3](mailto:tomhawk@rediff.com) | 225 | 03-07-2018 | S1001 |
| 124566922 | John Brown | P1002 | 250 | [10](mailto:john.brown@gmail.com) | 2500 | 31-07-2018 | S1003 |
| 124566922 | John Brown | P1003 | 75 | [2](mailto:john.brown@gmail.com) | 150 | 31-07-2019 | S1003 |

***System Presentation & User Interface :-***

The System will be developed based on Intercommunicating with Services.

Each of the Service will be a independent Spring Boot application.

They will be related through Eureka Server

The User interfaces will be WebPages like Jsp pages.

At Back end, database will be present.