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Report – DEPARTMENT STORE MANAGEMENT SYSTEM

**Submitted By: N.NAVEEN KUMAR**

**Candidate Id: 104391**

Course Code: <CODE>



Version Number:

Team Members :

Team No:

Module: Model Based System Engineering

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| **Ver. Rel. No.** | **Release Date** | **Prepared. By** | **Reviewed By** | **Approved By** | **Remarks/Revision Details** |
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**CHAPTER 1**

**INTRODUCTION**

Every organization, whether big or small, has challenges to overcome in managing the information of sales, products and available goods. It consumes time to issue bill to customers and sometimes there might occur error in calculating bill. To overcome these issues, a department store management system is developed which stores all the required information and also calculates customer bills. By using this system, shop owners can store and manipulate required information and can also calculate customer bill quickly.

**1.1 Problem Statement:**

To develop a department store management system, which helps to store and manage details about available goods and also calculates customer bills.

**1.2 Description:**

The scope of this project is to ease the management of the department stores. The system helps user to keep track of records of all the available goods. It allows the user to add, delete and modify the details about goods, search for product details based on certain factors, displays all the available goods and calculate customer bills. The details are stored and manipulated using files.

**CHAPTER 2**

**REQUIREMENTS GATHERING**

**2.1 Softwares used:**

**Operating system:** Windows

**Software**: Code::blocks 20.03

**2.2 Functional Requirements:**

At first,the application will show a main menu with following functionalities:

\* Calculate bill - This function allows the user to calculate customer bills. It prompts the user to enter code and quantity. Based on the input, bill is calculated.

\* Add goods - This function allows users to add new goods to the system.

\* Delete goods - This function allows user to delete specific good by using item code.

\* Edit goods - This function allows the user to modify the details of the goods by using item code. After item code is provided, user is prompted to choose the entity to be modified (1-code,2-name,3-rate,4-quantity).

\* Display goods - This function allows user to view all the available goods and their details.

**\*** Search goods - This function allows the user to search for goods details based on three factors (code,quantity,rate). In case of quantity and rate lower and upper value must be given.

\* Exit – Terminates the application.

All the goods details are stored and manipulated using files. The file will have item code, item name, item rate, item quantity.

**CHAPTER 3**

**TEST PLAN**

Test plan helps us to determine the effort and resources required to validate the quality of the product.

**3.1 Testing strategy:**

Following table contains features to be tested along with their description.

|  |  |
| --- | --- |
| **MODULE NAME** | **MODULE DESCRIPTION** |
| Add goods | This function allows users to add new goods to the system. |
| Display goods | This function allows user to view all the available goods and their details. |
| Edit goods | This function allows the user to modify the details of the goods by using item code. After item name is provided user is prompted to choose the entity to be modified (1-code,2-name,3-rate,4-quantity). |
| Search goods | This function allows the user to search for goods details based on three factors (code,quantity,rate). In case of quantity and rate lower and upper value must be given. |
| Calculate bill | This function allows the user to calculate customer bills. It prompts the user to enter code and quantity. Based on the input bill is calculated. |
| Delete goods | This function allows user to delete specific good by using item code. |
| Exit | This function terminates the application. |

**3.2 Suspension criteria:**

If more than 50% of test cases are failed, then the testing is suspended until all the failed test cases are fixed.

**3.3 Exit criteria:**

The exit criteria is met, when all the test cases are successful and the expected outcome is obtained.

**3.4 Testing environment:**

All the test cases are tested using code::blocks IDE version 20.03 in windows operating system.

**CHAPTER 4**

**TEST CASES**

Following are some of the test cases to test the working of system. Each test case contains a table with three columns, Module name, Testing steps and Data to be provided to the system.

**TEST CASE 1:**

|  |  |  |
| --- | --- | --- |
| **MODULE NAME** | **TESTING STEPS** | **Data(Input)** |
| Add goods | Select add goods from main menu.  Enter “y”.  Enter code,rate,quantity,name | 001,1200.00,899,rice |
| Display goods | Select Display goods from main menu. | Does not require input. |
| Edit goods | Select Edit goods from main menu.  Enter item code of the product.  Enter “y”.  Enter 1 to modify item code.  Enter 2 to modify item name.  Enter 3 to modify item rate.  Enter 4 to modify item quantity. | 001(item code).  4(modify quantity).  100(quantity modified to 100). |
| Search goods | Select search goods from main menu.  Select by code and enter item code.  Select by quantity and enter lower and upper value.  Select by rate and enter lower and upper value. | By code:  001  By quantity:  Lower value:1  Upper value:101  By rate:  Lower value:1  Upper value:1300.00 |
| Calculate bill | Select calculate bill from main menu.  Enter item code and quantity.  Enter “end” to calculate total amount. | 001(code),5(quantity). |
| Delete goods | Select delete goods from main menu.  Enter item code. | 001 |
| Exit | Select exit from main menu | Does not require input. |

**TEST CASE 2:**

|  |  |  |
| --- | --- | --- |
| **MODULE NAME** | **TESTING STEPS** | **Data(Input)** |
| Add goods | Select add goods from main menu.  Enter “y”.  Enter code,rate,quantity,name.  Enter “n” to end addition. | “y”.  002,1000.00,100, wheat.  “n”. |
| Display goods | Select Display goods from main menu. | Does not require input. |
| Edit goods | Select Edit goods from main menu.  Enter item code of the product.  Enter “y”.  Enter 1 to modify item code.  Enter 2 to modify item name.  Enter 3 to modify item rate.  Enter 4 to modify item quantity. | 002(item code).  “y”  3(modify rate).  70(rate modified to 70). |
| Search goods | Select search goods from main menu.  Select by code and enter item code.  Select by quantity and enter lower and upper value.  Select by rate and enter lower and upper value. | By code:  002  By quantity:  Lower value:1  Upper value:200  By rate:  Lower value:1  Upper value:100 |
| Calculate bill | Select calculate bill from main menu.  Enter item code and quantity.  Enter “end” to calculate total amount. | 002(code),6(quantity). |
| Delete goods | Select delete goods from main menu.  Enter item code. | 002 |
| Exit | Select exit from main menu | Does not require input. |

**CHAPTER 5**

**EXPECTED RESULTS**

The following table contains module names and expected results of test case 1.

|  |  |
| --- | --- |
| **MODULE NAME** | **EXPECTED RESULTS** |
| Add goods | Items added successfully |
| Display goods | SN. Item Name Item Code Rate Quantity  1 rice 001 1200.00 899 |
| Edit goods | ---Item edited--- |
| Search goods | SN. Item Name Item Code Rate Quantity  1 rice 001 1200.00 100  SN. Item Name Item Code Rate Quantity  1 rice 001 1200.00 100  SN. Item Name Item Code Rate Quantity  1 rice 001 1200.00 100 |
| Calculate bill | CUSTOMER'S BILL  SN. Item Name Quantity Rate Total  1 rice 5 1200.00 6000.00  TOTAL AMOUNT = INRs. 6000.00 |
| Delete goods | ---Item Deleted--- |
| Exit | Program must terminate. |

The following table contains module names and expected results of test case 2.

|  |  |
| --- | --- |
| **MODULE NAME** | **EXPECTED RESULTS** |
| Add goods | Items added successfully |
| Display goods | SN. Item Name Item Code Rate Quantity  1 wheat 002 1000.00 100 |
| Edit goods | ---Item edited--- |
| Search goods | SN. Item Name Item Code Rate Quantity  1 wheat 002 70.00 100  SN. Item Name Item Code Rate Quantity  1 wheat 002 70.00 100  SN. Item Name Item Code Rate Quantity  1 wheat 002 70.00 100 |
| Calculate bill | CUSTOMER'S BILL  SN. Item Name Quantity Rate Total  1 wheat 6 70.00 420.00  TOTAL AMOUNT = INRs. 420.00 |
| Delete goods | ---Item Deleted--- |
| Exit | Program must terminate. |

**CHAPTER 6**

**CONCLUSION**

Time and money are one of the most important factors for any organization. Implementing software technologies for managing business will save time and money. It will help business people to enhance their business to a greater extent. This project will help department store owners to store and manage their product details without redundancies and quickly calculate customer bills, which will save time and money in managing the business.

**CHAPTER 7**

**REFERENCES**

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