**MINI PROJECT**

**ON**

**COMPUTER STORE MANAGEMENT SYSTEM**

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**CHAPTER 1**

**INTRODUCTION**

**1.1 PROBLEM STATEMENT:**

It is difficult to make note of all records manually and it takes more time as well as it is not secure to handle the data every time.

**1.2 DESCRIPTION:**

This system is based on a concept to maintain all the computer records in a showroom. Using this system, the user can easily maintain each and every computer’s record. There is an Admin login panel from where admin can login and can add, edit, view, or remove computer details. Login system is also available in this system to make it more secure. There’s no chance of data misuse or loss & it’s not time-consuming. The whole project is developed in ‘C’ Programming language, different variables and strings have been used for the development of this project. It’s easy to operate and understand by the end users.

**Features:**

* Login System with authorized credentials.
* Systematic arrangement of records.
* Easy to add, modify, remove, list records, search.

**Advantages of the System:**

**1**. **Saving Time**: - The daily activities are performed very quickly as compared to manual system. It requires less time and the customer need not wait for a long time in queues.

**2. No need for Subsidiary books:** In this system all the entries are entered with the help of basis slips. Therefore, there is no need for keeping subsidiary books.

**3. Up-to-date Accounts:** This system helps in keeping the accounts of customers up-to-date. Every transaction is entered in the concerned account as soon as it takes place.

**4. Modification is easy:** By using this system we can modify accounts easily.

**5. Quick Service:** The services provided by this system are so much faster. So we can say that it provides quick services to its customers.

**CHAPTER 2**

**REQUIREMENTS**

**Software:** Code::Blocks IDE Version 20.03.

**Operating System:** Windows.

### Header Files Required:

* **<stdio.h>**(Standard input-output header) **:** Used to perform input and output operations in C.
* **<conio.h>**(Console input-output header) **:** Perform console input and console output operations like clrscr() to clear the screen and getch() to get the character from the keyboard.
* **<stdlib.h>**(Standard library header) **:** Perform standard utility functions.
* **<windows.h>:**It is a windows specific header file used in C programming which contains declarations for all the functions in windows API.
* **<string.h>**The string.h header defines one variable type, one macro, and various functions for manipulating arrays of characters.

**Functional Requirements:**

* **Add Records:** Allows to add a new record.Adding new record requires

phone number,user name and amount to be paid.

* **List Records:** Displays the whole records present.
* **Modify Records:** We canmodify the existing records**.** That is,we can change the phone number,name and amount in the existing records.
* **Delete Records:** We can delete an existing record from the list.
* **Search Records:** We can search the existing records by entering the phone number.
* **Login:** Allows to log into the system.This checks whether the logged in user is valid for not.

**CHAPTER 3**

**TEST PLAN**

**3.1 Introduction:**

The purpose of testing is to discover errors. Testing is the process of trying to discover every conceivable fault or weakness in a work product. It provides a way to check the functionality of components, sub-assemblies, assemblies and/or a finished product. Software system meets its requirements and user expectations and does not fail in an unacceptable manner.

**3.2Features to be tested:**

|  |  |
| --- | --- |
| **S.No** | **Test Objective** |
| 1. | To check if the user is validated correctly while logging  Into the system. |
| 2. | To check if the list of records is correctly displayed. |
| 3. | To check if a new record can be added. |
| 4. | To check whether the existing record can be modified. |
| 5. | To check if an existing record can be deleted from the list. |
| 6. | To check if the component needed for the user is available or not |
| 7. | To check if the existing records can be searched. |

**3.3 Testing Levels**

**7.3.1 Unit Testing:**

Unit testing involves the design of test cases that validate that the internal program logic is functioning properly, and that program inputs produce valid outputs. All decision branches and internal code flow should be validated. It is the testing of individual software units of the application .It is done after the completion of an individual unit before integration. This is a structural testing, that relies on knowledge of its construction and is invasive. 56 Unit tests perform basic tests at component level and test a specific business process, application, and/or system configuration. Unit tests ensure that each unique path of a business process performs accurately to the documented specifications and contains clearly defined inputs and expected results.

**3.3.2 Integration Testing:**

Integration tests are designed to test integrated software components to determine if they actually run as one program. Testing is event driven and is more concerned with the basic outcome of screens or fields. Integration tests demonstrate that although the components were individually satisfaction, as shown by successfully unit testing, the combination of components is correct and consistent. Integration testing is specifically aimed at exposing the problems that arise from the combination of components.

**3.3.3 Functional Testing:**

Functional tests provide systematic demonstrations that functions tested are available as specified by the business and technical requirements, system documentation, and user manuals.

Functional testing is centered on the following items:

**Valid Input:** identified classes of valid input must be accepted.

**Invalid Input: identified** classes of invalid input must be rejected

**Functions:** identified functions must be exercised.

**Output: identified** classes of application outputs must be exercised.

**Systems / Procedures:** interfacing systems or procedures must be invoked.

Organization and preparation of functional tests is focused on requirements, key functions, or special test cases. In addition, systematic coverage pertaining to identify Business process flows; data fields, predefined processes, and successive processes must be considered for testing.

**3.3.4 System Testing:**

System testing ensures that the entire integrated software system meets requirements. It tests a configuration to ensure known and predictable results. An example of system testing is the configuration-oriented system integration test. System testing is based on process descriptions and flows, emphasizing pre-driven process links and integration points.

**CHAPTER 4**

**TEST CASES**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Objective** | **Expected Result** | **Actual Result** |
| 1. | To check if the user is validated correctly while logging into the system. | Username and password must be validated. | The Username and password are validated correctly. |
| 2. | To check if the list of records is correctly displayed. | It should display the list of records. | The list of records is displayed correctly. |
| 3. | To check if a new record can be added. | User have to enter  Company and name of the laptop. | User enters the Company and name of the laptop. |
| 4. | To check whether the existing record can be modified. | By entering a Company and name of the laptop the existing record should be modified. | Company and name of the laptop is entered and the existing record is modified. |
| 5. | To check if an existing record can be deleted from the list. | By entering the Company and name of the laptop the existing  record should be deleted. | Company and name of the laptop is entered  and the existing record  is deleted. |
| 6. | To check if the existing records can be searched. | To check whether the record is present in the database or not. | A message is displayed whether the record is present in the database or not. |