**DVD STORE MANAGEMENT SYSTEM**

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# **1.INTRODUCTION**

## 1.1 Problem Statement

Nowadays every DVD store manager has a need to maintain DVD/CD details. In the existing system, all the records are not kept perfectly because all the work is done manually, so keeping up to date is difficult. Thus, the existing system is very time consuming and manual work tends to be cumbersome and there is a high chance that it may lead to data loss as well. For this purpose,we need a software which could easily and conveniently maintain the details related to the store. The record of DVDs can be stored in the single file. This software can be used in several cd stores for keeping records of the DVDs,enhancing the customer experience while decreasing the workload for the administrator. This project “DVD store management system” using C programming includes some essential features such as Add record, Delete record, Modify record , Search , View etc. The proposed system is highly automated and makes the storing and management activities much easier and flexible.

## 1.2 Project Description

DVD store management system is specially designed for the purpose of adding daily DVD records in a CD/DVD store. This system makes it easy for storing records as it is not time consuming. It is easy to store, the user just has to select DVD categories like : Movies, series, music, animated, adult. Each of the records contains a unique DVD id number which makes it easy to search for a particular record. All the DVD records are maintained with their Availability Status (yes/no), their price and quantity. Each and every record is displayed in a systematic way so that the user won’t find difficulties in viewing records. The whole project is designed in ‘C’ Programming language and different variables and strings have been used for the development of this project. It’s easy to operate and understand by users. There’s no any error and warning contents in the project and the design is simple and users won’t find it difficult to use and navigate.

Talking about the features of DVD store management system, the admin needs to enter a password in order to access .The system will enable the admin to make a new entry for the customers as well for the cd’s which has recently arrived in their store. Through this system, shop owners will be able to check their products stocks details.. Even if the admin found some error during the data entry process and came to know while handling the system,it can be modified by using the edit option. It will facilitate the admin to work upon attributes of customers and dvds to make their business transaction and associated processes easier.

# **2.REQUIREMENT ANALYSIS**

## 2.1 Objective

The main objective of the DVD store management system using C programming is to keep records for all the dvds present in a store and to manage its details such as genre,availability , price , quantity in stock etc.... It manages all information regarding every single cd/dvd .The project is completely built at administrative end using C programming and thus only the admin i.e. the shop owner is guaranteed access to the system.The purpose of this project is to build an application program to reduce the manual work for managing the dvds.It tracks all details regarding each dvd thus providing ease for the customer and preventing any unwanted data manipulation or data loss which attribute to the privacy and safety aspects of the system.

## 2.2 Input - Output Requirements

* All the fields such as DVD are validated and do not take invalid values to get proper form of output.
* The software also takes the details of the DVD, to make stock as an input and also generate the record of the DVD as an output.
* Avoiding errors in data entry and modification.
* Controlling the amount of input.

## 2.3 Hardware Requirements:

* The minimum requirement of turbo c is acceptable to run this software.
* Processor: Pentium 3/1.4GHz or above processor.
* System Type: X86-based OS.
* Minimum RAM Size: 512MB or above
* Hard Disk: 1GB or above of available space
* Monitor: 800\*600px or above resolution display.

## 2.4 Software Requirements:

* Operating System : Window XP, Vista, 7 or above.
* IDE : CodeBlocks , Dev C++ or any suitable IDE.
* Compiler Used: MingGW compiler, GCC compiler

## 2.5 Non Functional Requirements

* Efficiency requirement: When this system will be implemented admin can easily access the record.
* Reliability requirement: The system should accurately perform entry of new cd’s, deletion,modification,search, view.
* Usability requirement:System is designed for a user friendly environment so that the admin can perform various tasks easily and in an efficient way.
* Implementation requirement: The whole project is designed in ‘C’ Programming language and different variables and strings have been used for the development of this project. It’s easy to operate and understand by users. There’s no any error and warning contents in the project and the design is simple and the user won’t find it difficult to use and navigate.

## 2.6 Functional Requirements

1. Admin Login:

Feature: The feature used by the admin to login into the system. They are required to enter the password to enter the system.Password will be verified and if it is invalid he/she cannot enter the system.

Functional Requirement:

* The system must only allow the one with a valid password.
* The system performs an authorization process which decides what user can have access to.
* The user must be able to exit from the system when required.

1. Add DVD record

* Feature: Helps to add new records to the system with their details.

Functional Requirement

* System must be able to add new DVD’s.
* System must be able to add details such as id,type, name, availability, quantity and price of the added DVD.
* System should not allow record with same id

1. Delete DVD record

* Feature:Helps to delete an existing record when required.

Functional Requirement:

* System must be able to delete a record when demanded by giving its id or name.
* System should not delete other records.

1. Search DVD record

* Feature: It is found in the DVD maintenance part. We can search for DVDs on id and name.

Functional Requirement:

* System must be able to search the record based on the selected search type.
* System must able to filter DVD based on keyword entered

1. View DVD list

* Feature: We can view the whole list of record

Functional requirement:

* System must be able to show all the details of DVD’s that are added in the system.

1. Edit DVD record

* Feature: if the admin found some error during the data entry process and came to know while handling, the system can be modified by using the edit option.

Functional requirement:

* System must be able to make necessary modifications.
* System should make changes to only the selected DVD.

1. Exit

* Feature:The admin must be able to safely exit from the application program into the main menu.

Functional Requirement:

* System must enable the admin to go back to the main menu .
* Make sure no interrupts or loops are encountered in the specific section before exiting.

# **3.DESIGN**

## 3.1 Basic Design and Working

First and foremost this is an application run solely in the administrator side and the user has no access or manipulation control into it.This application enables a shop owner in cd/dvd store to keep record of all the dvd’s in stock in his/her shop and also stores adequate information regarding each record.The features provided by the system include Admin Login, Add record , Delete record , Search , Edit and View records.

The first step required to run this application is the Admin Login i.e the shop owner or any authorised personnel can gain access into the system using a specific passcode set earlier.This prevents any unauthorised access into the system and safeguards the system from incurring any data breach or data loss .Therefore it caters to the security and privacy needs of the system.

On entering the correct password the admin or shop owner is granted access into the system and is brought to the main menu which shows all the features provided by the application.The main menu comprises 5 features which are Add, Delete,Edit ,Search and View.

**Features:**

1.Add Record

This enables the admin to add a new record into the system.Once the admin enters this option from the main menu , he/she is prompted to enter the category to which the new record is to be added i.e. movies , music, series , animated etc...After the owner selects the required category he/she has to enter the details of the record which are its ID, name , price, availability and quantity.

2.Delete Record

This enables the admin to delete an existing record from the system using its ID.If the ID entered is invalid , an error message is prompted . Otherwise the selected record will be removed from the database.

3.Edit Record

This feature is useful when the admin has incorrectly entered the details of a particular record or he/she wants to change the details of an already existing record.The record whose details is to be edited is identified using its ID .After the admin enters the ID , if invalid an error message is displayed .Otherwise the admin can edit the details of the particular record and it will be overwritten onto the former one.

4.Search Record

This feature eases the work of the owner as he/she can know whether a certain dvd exists in the shop when requested by the customer.It can also be used to check the details of a particular record when needed for eg. If the owner needs to know the quantity of a record in stock so as to order new copies this function plays a vital role.Search function can be executed either using the record’s ID or name , if invalid an error message is prompted.Otherwise the details of the required record is displayed.

5.View

This feature is used to display all the dvds present in the database of the system irrespective of its type or genre.This enables the owner to enhance the customer experience as he can provide the whole array of dvds present in his/her store in one single click.

6.Exit

This function enables the admin to log out safely from the system after saving all the changes made and disconnecting the admin from the application.On re-entry the system asks for the password thus preventing any data breach in between admin logins.

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## 3.2 Activity Diagram Of Proposed System

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# **4.RESEARCH**

## 4.1 Existing System

Under the existing system, the most horrible situation comes when the shop owner has to find a particular cd/dvd on the demand of customers during the selling process. The existing system works in a manual style, so shop administration only takes responsibility for preparing bills which includes the details of purchasing date, type of products, total price including taxes. There is no provision to maintain the records of cd’s in order to inform their customers about their latest product provided by their shop and availability of the product .

## 4.2 Proposed System

As this new system will be fully automated, so manual processing will be not required to achieve any task. This system will not only keep records of the DVD’s which are available under this shop but it will also help and make modifications as and when required. Admin will have the option of getting all the records by using a single option provided under the DVD view section. To make easy processing work, admin have to only enter the correct option without pressing any other button and this system will identify their choice and take action based on their selected option.

# **5.TEST PLAN**

## 5.1 Introduction

The test plan is designed to identify the items and features to be tested. The method of testing to be done for the dvd store management system is described below. The given test cases are tested for validity and accuracy.If the output of test cases matches with the expected results, the test passes.

## 5.2 Test Strategy

### 5.2.1 Scope Of Testing

**Features to be Tested:**

|  |  |
| --- | --- |
| Module Name | Description |
| Login | System allows access to authorised personnel and prevents any unauthorized entry. |
| Add Record | A new record of the selected category can be added to the database . |
| Delete Record | An existing record from the database can be removed by entering its unique ID. |
| Edit Record | The details of an existing record can be modified by the admin. |
| Search Record | Admin can search the system for a specific record by entering its ID or name and its details will be displayed. |
| View | Enables the admin to view the entire database of the system. |
| Exit | After the session the admin can safely logout from the system. |

**Features Not to be Tested:**

1.User Interface

2.Hardware Interfaces.

## 5.3 Test Objective

The test objectives are to verify the functionality of the dvd store management system. The focus is to be given on testing the functionalities such as Admin Login , Add record, Delete Record , Edit Record , .etc to make sure these functions are working efficiently.

## 5.4 Test Criteria

### **5.4.1 Suspension Criteria**

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

### **5.4.2 Exit Criteria**

* 100% Test coverage.
* All manual test cases are executed.
* All open bugs are fixed or will be fixed in the next release.

## 5.5 Test Environment

* All test cases are executed in CodeBlocks IDE.

# **6.Test Cases**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case Objective** | **Test Steps** | **Test Data** | **Status** |
| TC\_01 | Check admin login with valid data | Enter Password | Password=pass | Successful |
| TC\_02 | Check login with invalid data | Enter Password | Password=DVD | Successful |
| TC\_03 | Check if admin can add new records | 1.Choose option 1 in main menu  2.Choose type of DVD  3.Give unique DVD Id  4.Enter name  5.Enter price  6.Enter availability status  7.Enter quantity | 1.Choose option 1 in main menu  2.DVD type=Movies  3.DVD Id=1  4.DVD Name=Black Panther  5.Price=100  6.Availability Status=yes  7.Quantity=30 | Successful |
| TC\_04 | Check if the admin can delete record | 1.Choose option 2 in main menu  2.Enter id number | 1.Choose option 2 in main menu  2.Id =1 | Successful |
| TC\_05 | Check if the admin can search a DVD | 1.Choose option 3 in main menu  2.Enter id number or name of the DVD | 1.Choose option 3 in main menu  2. DVD Name=Black Panther | Successful |
| TC\_06 | Check if the admin can view DVD list | Select option 4 in main menu | Select option 4 in main menu | Successful |
| TC\_07 | Check if the admin can edit DVD record | 1.Select option 5 in main menu  2.Enter Id number  3.Enter new name  4.Enter new Price  5.New availability status  6.Enter new quantity | 1.Select option 5 in main menu  2.Id=1  3. New name=Black Panther  4.Price=200  5.Availability status=yes  6.Quantity=20 | Successful |
| TC\_08 | Check if exit is working | Enter 6 in main menu | Enter 6 in main menu | Successful |

# **7.Expected Result**

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Test Case Objective** | **Expected Result** |
| TC\_01 | Check admin login with valid data | Login should be successful and the system should display the main menu. |
| TC\_02 | Check login with invalid data | Error message should be displayed |
| TC\_03 | Check if admin can add new records | At first Admin should select the required category and enter the unique ID number of the record to be added.Then he/she should fill all the fields with proper data .If any error is encountered like a pre-existing ID number,the system should display a proper message.  Otherwise add the record. |
| TC\_04 | Check if the admin can delete record | System should delete the details of the particular record using its unique ID number.Otherwise a proper error message should be displayed. |
| TC\_05 | Check if the admin can search a DVD | System should display the details of a particular record identified using its unique ID number or Name.Otherwise display proper error message. |
| TC\_06 | Check if the admin can view DVD list | Admin should be able to view the details of all records present in the system. |
| TC\_07 | Check if the admin can edit DVD record | Admin should be able to edit the details of a pre-existing record identified using its ID number. |
| TC\_08 | Check if exit is working | System should exit the program and  “Thank You” message should be displayed. |

# **8.CONCLUSION**

The DVD store management system is a very useful tool as it reduces the manual workload of the store manager .It helps the store manager to maintain a well structured record of all the DVD’s present in the store and also performs additional functions such as adding of a new record , quick search ,removing an unwanted record etc….This system proposes an easy and efficient way to keep track of all dvds and the details associated with each one of them.Moreover the system is very user friendly as all the functions can be carried out in a simple manner.It caters to the security and privacy concerns of the shop owner as the whole system is password protected ,therefore it denies any unauthorized access into the system and thus prevents any data loss.It also enhances the customer experience as each and every query related to an item can be solved in a fast and effective manner.Therefore it helps to boost the sales of the store and also saves valuable time during peak hours.