MINI PROJECT REPORT

ON

Simple Car Sales System in JAVA

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA

SURATHKAL, 575025

COURSE TITLE

Paradigms Of Programming II(IT253)

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SUBMITTED TO:

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INTRODUCTION

The Objective of this Project is to develop Simple Car Sales System in JAVA, which allows the user to enter Car Details. For this the user need to access the Car Sales System application. Only user can able to access to enter the details of Cars. The maintenance of these details comes in to the task of administrator where he is responsible to maintain the details like Manufacturer, Year, Model, Price and KM traveled, Extra Information. These all things will be maintained by the system. The system has two large functions for both Details of Cars and Searching for a Car. One is marinating the Car Details etc… and the other is administrating the searching mechanism for a car on Age, Price, and Traveled KM.

Here user can search Car by age. Provide search criteria to find the Car details and user can see all the records and User able to see the total information of all cars and details .Car Sales System should have good user interface with menus and tools bar.

DECLARATION

I hereby declare that the mini project work entitled "**Simple Car Sales System in JAVA**" has been presented by, Alekhya(15IT226), Sowmya.R(15IT246) and Deena(15IT209), students of second year batch(IT) , Department of Information Technology, NITK on 13th April, during the even semester of academic year 2016-17,in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in IT at NITK, Surathkal.

CERTIFICATE

This is to certify that the Dissertation entitled "**Simple Car Sales System in JAVA**" is a bonafide record of group research work done by Deena, Alekhya, Sowmya under your supervision and submitted to **Ms.Tulsi** in partial fulfillment for the award of the Bachelor of Technology, IT, NITK.

 Place: Surathkal   **(Signature of Course Instructor)**

 Date: 13/04/2017

APPROACH

FILE : CarSalesSystem

This class is the main JFrame of the application, and deals with the car collection. It also creates instances of the other panels (add car, view car, etc) and incorporates them into the main frame. This is hierarchically, the highest class.

This class is used to create the page in which we will be able to see menu bar with two inner options, a picture of car, window closer method. In this class we create the tabbed items in the corner. In this we have a method which helps to fix the size of window not less than the fixed size. We have a method to fix the minimum and maximum boundary. We have a method which will return the required value. We do search by age, search by other requirements. We change the title bar text.

FILE : AboutDialog

This file is to create a about section's information in the menu bar. By using this file we will get the dialog box on clicking about in menu bar. If click ok the about dialog box will close. The about dialog box will contain information about the mini project.

FILE : AddCarPanel

This panel is used for adding cars to carssalessystem. We have two buttons reset and save. We have a label. We check whether the information is valid or not.

FILE : Car

Stores the information about cars and calculate the age of car from current date.

FILE : CarDetailsComponents

This class contains the group of text fields representing the cars information visually inside a panel. This have labels of all the details of car and text fields. This file is used whenever we want to display about a car.

FILE : CarsCollection

Stores manufacturer's objects and performs searches. adds a car to a CarCollection and files it in an appropriate manufacturer, or creates a new manufacturer if none exist for the car. add a Manufacturer object to the CarsCollection.
This class calculate the average age, average distance, average price from the entire collection of cars and also has actual searching code. Saves all car details in a binary file called "car.dat".

FILE:CarUpdateEvent

 A basic event that is sent off to registered listeners

FILE: Manufacture

This class stores and retrieves Car objects, resizes the array bby number of elements and adds manufacturer.

FILE:SearchByAgePanel

A panel used for obtaining search parameters using car age. This class contains search by age page, which have age(a combo box), search, reset options. find outs search parameters, and do a search. And a dialog box which show no answer for the entered result.

FILE:SearchByOtherPanel

A panel used for obtaining search parameters using car price and distance travelled. Labels of distance, price and combo boxes for textfields. And a dialogbox to show that no cars with entered details.

FILE: ShowAllCarsPanel

A panel used for display information about all cars in the collection. A method to invoked when a car has been added to the system. when the tab on the main frame gets changed over to this one, we may have to update the car list with the latest version. So this also has a cars update method.
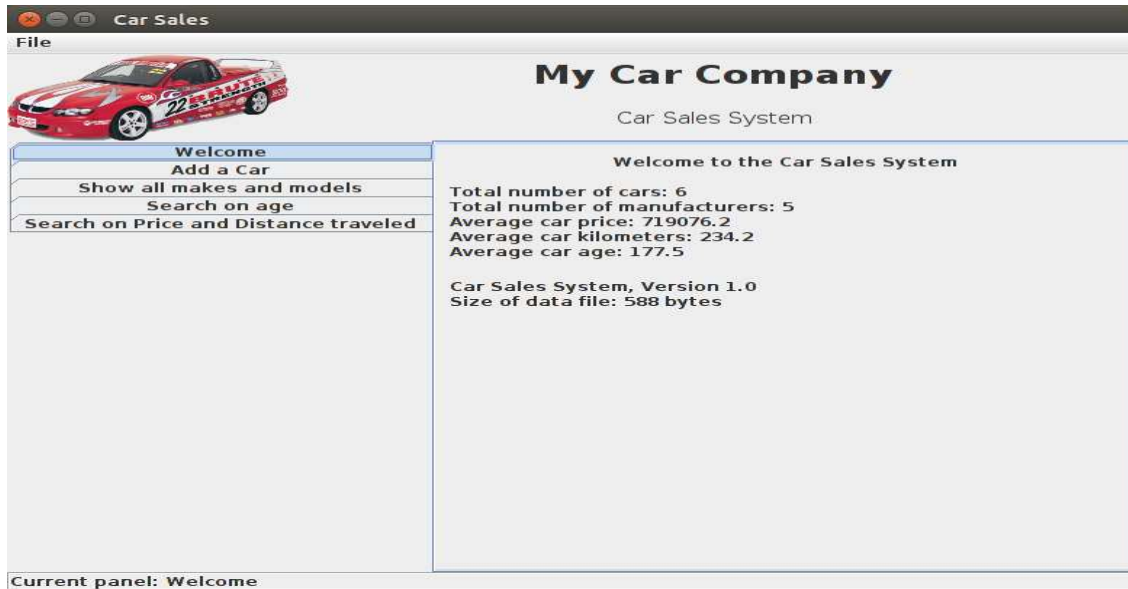Also contains next and previous buttons, display next or previous item in index, otherwise display no next item message dialog.

FILE: WelcomePanel

A welcome dialog, which displays basic statistics about the cars in the data file. This class also have methods to update the statistics whenenv the car got added.

RESULTS

1.Displaying welcome page.

2.We can add a new car and its details by this tab(Add a Car).

3.Adding details of a new car.

4.Displaying message that the new car and its details that we entered are recorded.

5. Showing all cars and its details that we entered till now(1st car details).

6. Showing all cars and its details that we entered till now(2nd car details).

7.If all cars and its details are shown then it will display a message that we cant navigate further.
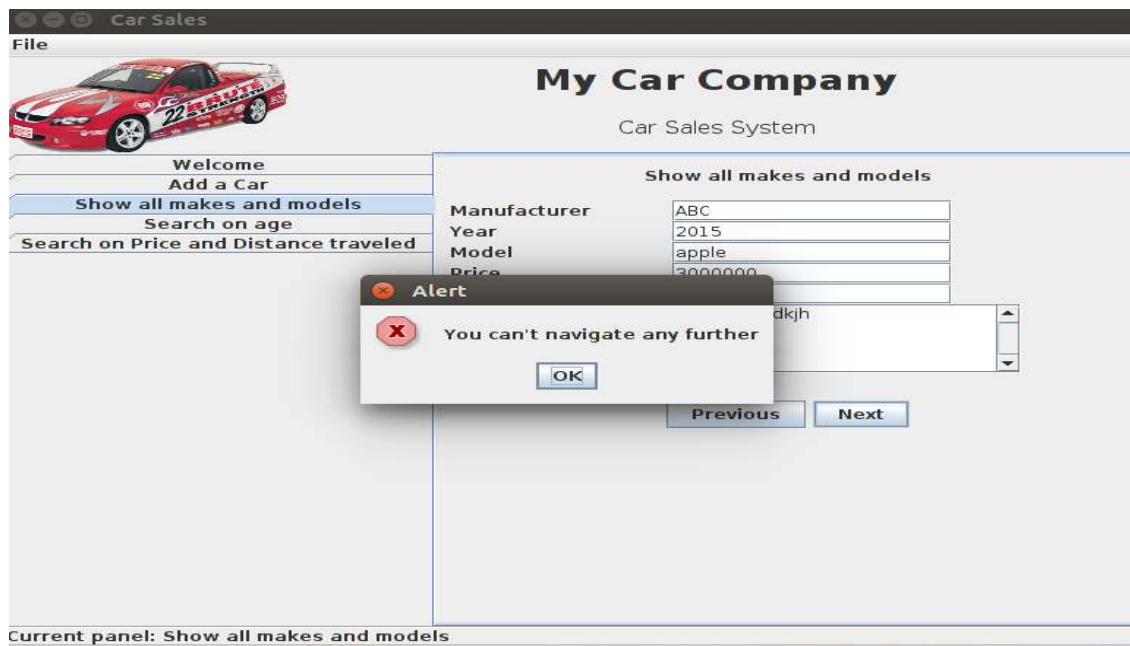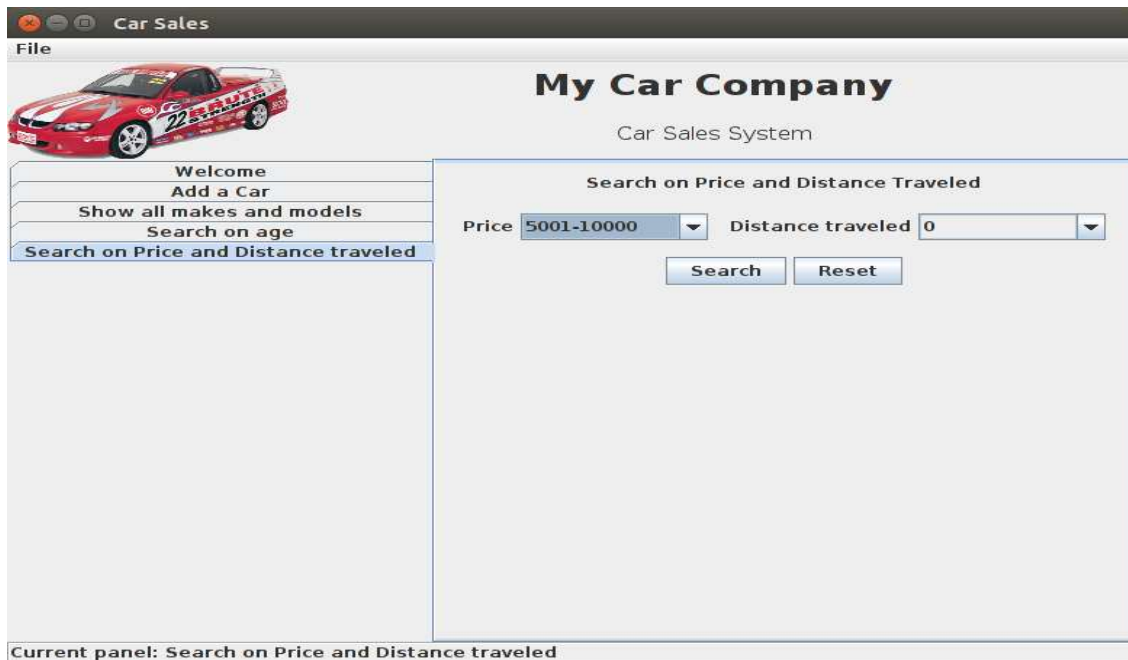

8.Searching a car by its age.

9.If the age that we entered is not found it will display a message that is shown in the following figure.

10.Displaying car and its details by its age(Here we are searching a car of age 0).

11.Searching a car by its price and distance travelled.

12.Displaying a car and its details after we entered price and distance travelled(Here we entered price between 5001-10000 and distance travelled is 0).

DISCUSSION

The Car Sales System eliminates most of the limitations of the existing software. It has the following objectives:

- **Enhancement:** The main objective of Car Sales System is to enhance and upgrade the existing system by increasing its efficiency and effectiveness. The software improves the working methods by replacing the existing manual system with the computer-based system.

- **Automation:** The Car Sales System automates each and every activity of the manual system and increases its throughput. Thus the response time of the system is very less and it works very fast.

- **Accuracy:** The Car Sales System provides the uses a quick response with very accurate information regarding the users etc. Any details or system in an accurate manner, as and when required.

- **User-Friendly:** The software Car Sales System has a very user-friendly interface. Thus the users will feel very easy to work on it. The software provides accuracy along with a pleasant interface. Make the present manual system more interactive, speedy and user friendly.

- **Availability:** The transaction reports of the system can be retried as and when required. Thus, there is no delay in the availability of any information, whatever needed, can be captured very quickly and easily.

- **Maintainance Cost:** Reduce the cost of maintenance.

Design Objectives:

The primary objective of the design of course, is to deliver the requirements as specified in the feasibility reports. In general the following design objectives should be kept in mind.

- Practicality:

The system must be stable and can be operated by people with average.

- Efficiency:

    This involves accuracy, timeliness and comprehensiveness to the system output.

- Cost:

    It is desirable to aim for a system with a minimum cost subject to the condition that it must satisfy all the requirements.

- Flexibility:

    The system should be modifiable depending on the changing needs of the user. Such modifications should not entail extensive reconstructing or recreation of software. It should also be portable to different computer systems.

- Security:

    This is very important aspect of the design and should cover areas of hardware reliability, fall back procedures, physical security of data and provision for detection of fraud and abuse.
System design involves first logical design and then physical construction of the system. The logical design describes the structure and characteristics of features, like the outputs, inputs, files, database and procedures. The physical construction, which follows the logical design, produces actual program software, files and a working system.

CONCLUSION:

It may help collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to College. It will be also reduced the cost of collecting the management & collection procedure will go on smoothly.

The present project has been developed to meet the aspirations indicated in the modern age. An attempt has been made through this project to do all work ease & fast. It provide current add, Update, MoveNext, MovePrevious, MoveLast, Find & Delete all facilities to accomplish the desired

objectives. The facility Include in this project and the suggested activities have been organized to impart knowledge & develop skill & attitude in the College official works.