Software Requirements Specification

Car Sales and Inventory Store

Project

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1. Introduction

The following subsections of the Software Requirements Specifications (SRS) document provides an overview of the entire SRS.

1.1 Purpose
This document outlines the usage and implementation of the Car Sales Management

1.2 Scope

The website is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Inventory, Customer, Cars, Car Models. It tracks all the details about the Car Models, Sales, Car Owners.

1.3 Overview
The website will initially take some inputs from the user whether he/she is interested in buying/selling of cars and some extra information regarding the same. This website is based on the Car Sales System is to manage the details of Inventory, Customer, Car Models, Sales, Car Owners. It manages all the information about Inventory, Cars, Car Owners, Inventory.

1.4 Need for the System
1. There are many apps/websites for tracking the car sales and inventory of every individual.
2. However, each individual has a different need of either buying car or selling car.
3. To make vehicle dealership business profitable, being knowledgeable about cars will not be enough. Successful inventory, stuff and other recourse management and attracting new clients is vital for dealership business. Vehicle dealership management solution (DMS) Elva DMS as an ERP (enterprise resource planning) system ensures all automotive business process management from one software.
4. When choosing a dealer management system (DMS) it is important to diagnose every-day business processes.
5. In addition to suggesting the workouts, this car sales management website also plans a schedule where every day new cars buying /selling to the same are conveyed.

1.5 Similar Apps

Car Trade –

CarTrade.com is an Indian online auto classifieds platform serving as a marketplace for users interested in buying and selling new and used vehicles.

Car Trade operates as a platform for business-to-business (B2B) and business-to-consumer (B2C) operations. The service is divided into two sets - CarTrade.com, the B2C portal where users can buy and sell new and used cars, and CarTradeExchange.com, the B2B dealer portal which allows dealers to manage their online auctions and sales.

Cars 24-

The Cars24 platform facilitates the transaction and has an offline presence. Apart from selling used cars, the company's services include paperwork such as transferring the car to the name of the new owner which enables end-to-end transactions and offers an online auction platform to businesses looking to sell their pre-owned cars. In 2019 the company started offering verified used cars where the company offered a buyback guarantee on the vehicles verified by inspection

2. Functional Analysis

(1) The website will be able to search cars for buying/selling.

Description : The website is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Inventory, Customer, Cars, Car Models. It tracks all the details about the Car Models, Sales, Car Owners.

Implementation: A UI is created for the User to search facilities based on various factors. Such as Inventory, Car Models, Sales, Car Owners

• College Management System also sells the employees details online for students details, employees details, courses

. It tracks all the information of Customer, Cars, Sales ect

• Manage the information of Customer

. Shows the information and description of the Invertory, Car Models

• To increase efficiency of managing the Inventory, Customer . It deals with monitoring the information and transactions of Sales.

• Manage the information of Inventory

. Editing, adding and updating of Records is improved which results in proper resource management of Inventory data

Manage the information of Sales

• Integration of all records of Car Owners.

Criticality : The feature is important because without this user will have no directions to proceed. This forms the heart of the website.

Risks :
- Excel export has not been developed for Cars, Sales due to some criticality.

- The transactions are executed in off-line mode, hence on-line data for Inventory, Customer capture and modification is not possible.

- Off-line reports of Inventory, Car Models, Car Owners cannot be generated due to batch mode execution.

Description: The website will take the inputs from the user and suggest available sedan cars, SUV, coupe etc. with affordable prices.

Implementation: A data base of the images (can be from Google or self uploaded by users), is created. Based on the user inputs like which car the user is focused on , the images will be mapped.

Criticality: This is also an important feature because this is the main feature which is been absent in many of the available websites.

Risks: The availability of images is based on the inputs of the users needs an effective algorithm. A very effective algorithm after a literature survey will be taken to address the issue.

Dependency: It relies on the information from Google . Instead a database collected from Google and stored in an external server would address the issue. However since Google is available free in near future it wouldn't be a problem.

3. System Features

First Time Enrollment:
1. User opens the website.
2. User enrolls the name and personal details.
3. User chooses if he/she wants to buy/sell cars.
4. User will be given a choice whether he/she is interested in buying/selling their preferred model.
5. Based on the user information, the website maps the images of cars and details of sellers/buyers.
6. Website finally shows the best possible cars.

Database Mapping:
1. Server will have a collection of images and each cars will be labelled with many categories.
2. When a user requests for cars with specified categories, cars will be mapped to the categories mentioned by user will be sorted out.
3. Similarly cars related to the categories is also data based and based on the users inputthey are also sorted out respectively.

4. Reviews and feedback from the users also segregated based on users.

Improving the Database:

1. With evolution of the website and usage of the website by users data base will be re-mapped.

2. Users will give rating to the exercises and based on the ratings the remapping will be done. This helps in improving the performance of the website with the usage.

3. Further, the rating can be displayed to the user which allows him to choose among many of the available videos.

4. The mentioned feature can be added as a commercial element where only premium users can have access to the ratings. Thus the review and the feedback of the users will be used efficiently in this way.

4. Additional Features

Notify:
1. The user will be reminded using the in built notification option in the website about his cars he searched.
2. Further, if user permits, the searched car can also be notified at regular intervals whenever he/she browse the internet.
3. This adds as an extra feature for the website. The turn on and off feature will be given to let the users customize the website based on their requirements.

Privacy
1. The website will not disclose any personal information of the customers.
2. Even in the global rankings the other user names will not be displayed unless the user wishes to do so.
3. Further, the website will give access based on secured authorization.
4. Encryption of data will be implemented which will ensure that without the encrypted key unauthorized access of data impossible.

Version
1. The website will receive feedbacks in a separate category where a user can comment on the crash of the website, malfunctioning of the website.
2. This will be collected and will be updated in the next versions.
3. Further, with every version the changes will be logged. However each version should support roll back of the website.

Advantage of having a Web Access :
1. Devices like mobile happen to be in smaller size and viewing the images will bedifficult things some times.
2. A web access to every account helps the user to organize the things in a well-planned manner and track the things.
3. User can have very clear and precise analysis through videos in a web based platform.
4. Later during his workouts he will have the device where he can chose the already viewed images.

Compatibility
1. The website should take a maximum of 1 GB of storage [ROM].
2. The website should not exceed a window size of the screen resolution.
3. Website shall be compatible with any updated version of Windows.

Demo
1. Demo of using the website should be available during the first time access of the website.
2. Further this feature will be made as an option in the menu of the website.

5. Other Non-functional Requirements

Performance: The website's load time should not be more than one second for users.

Reliability: Applicants can access their resume 98% of the time without failure.

Availability: Employers can post jobs on the website throughout the week at any time during the day. In the case of unplanned system downtime, all features will be available again after one working day.

Maintainability: If the automated email services become unavailable, they can be under maintenance for approximately three hours.

Recoverability: If a major incident happens on the website and, the business must take measures to go back to being fully operational within three days.

Capacity: Up to 500 applicants can request for a resume review. Up to 1,000,000 resumes can be stored.
Serviceability: The applicants' automated emails can be edited and replaced by uploading an XML file; there's no need to recompile any code.

Security: Only the users with the role "site admin" can view the applicant's verified phone number.
Manageability: When editing the code for applicants' profile pages, the rest of the site stays up and running.

Environmental: Resume reviews are performed Monday through Friday from 9 AM to 6 PM.
Data integrity: The system shall maintain data integrity by keeping backups of all updates to the database for every record transaction.

Interoperability: The website must follow the service-oriented architecture.
Usability: The website's interface has to be user-friendly and easy to use

6 . Testing the Application

Testing Process
1. The application will be tested with in a university . A university with professors and students, with sufficient male and female users will form a diverse test case.
2. The app will update suggesting based on the feedback of the users in that span of testing period.
3. An app review will be taken at the end of the testing duration.
4. Any malfunctions and the crashes of the app will be noted and sorted out.
5. During the process server functioning and algorithm will also be evaluated.
6. Algorithm of mapping, if not efficient will be tweaked based on the user suggestions.
7. Further, during the testing stage, users will be allowed to suggest on what else would make the app better.

7. Sample Use Case

Features Of The Activity UML Diagram Of Car Sales System

- **Admin User can search Sales, view description of a selected Sales, add Sales, update Sales and delete Sales.**

- **Its shows the activity flow of editing, adding and updating of Models User will be able to search and generate report of Customer,, Inventory .**

- **All objects such as (Sales, Models, Inventory) are interlinked**

- **Its shows the full description and flow of Sales,, Inventory, Customer, Models**
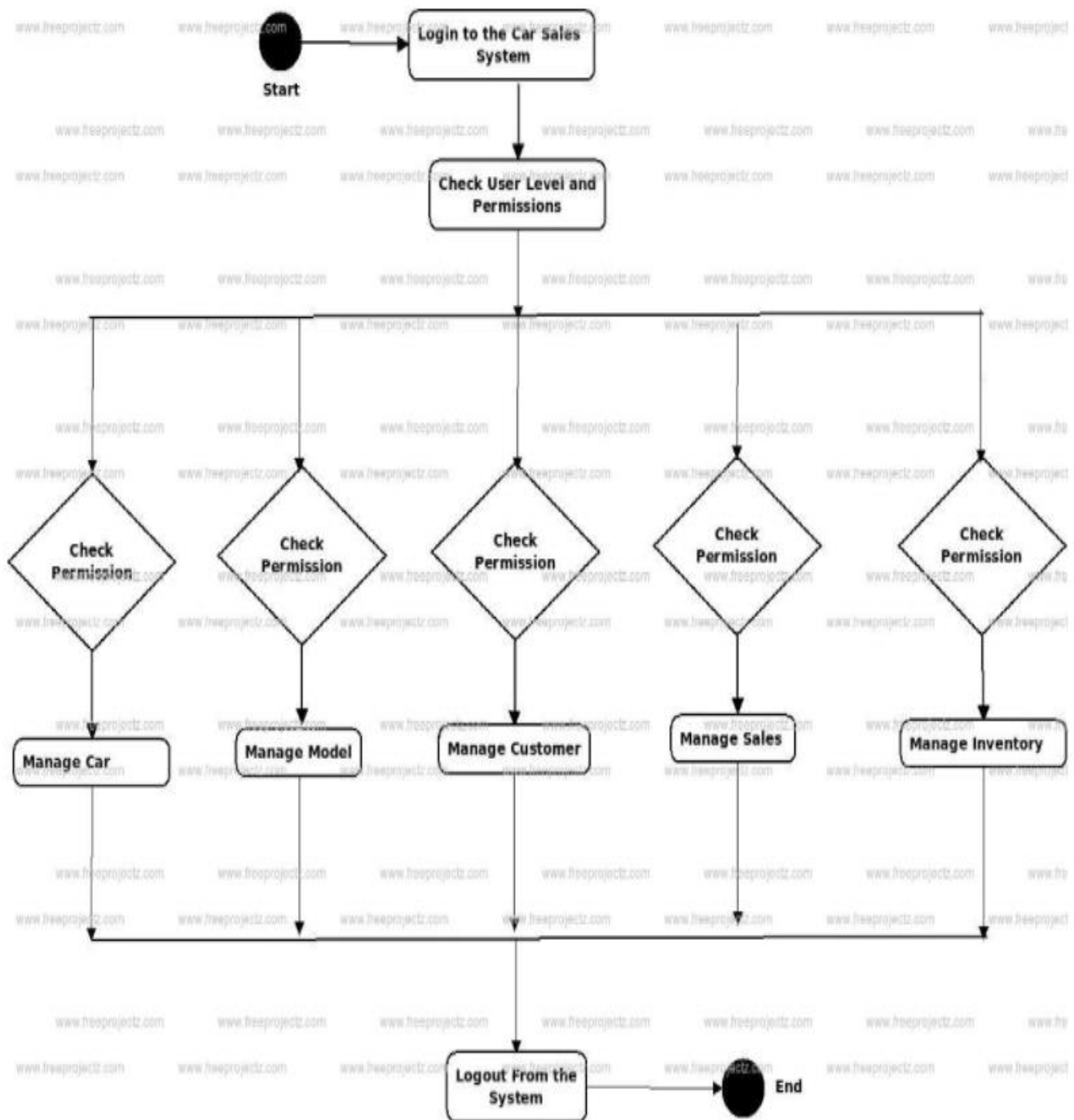
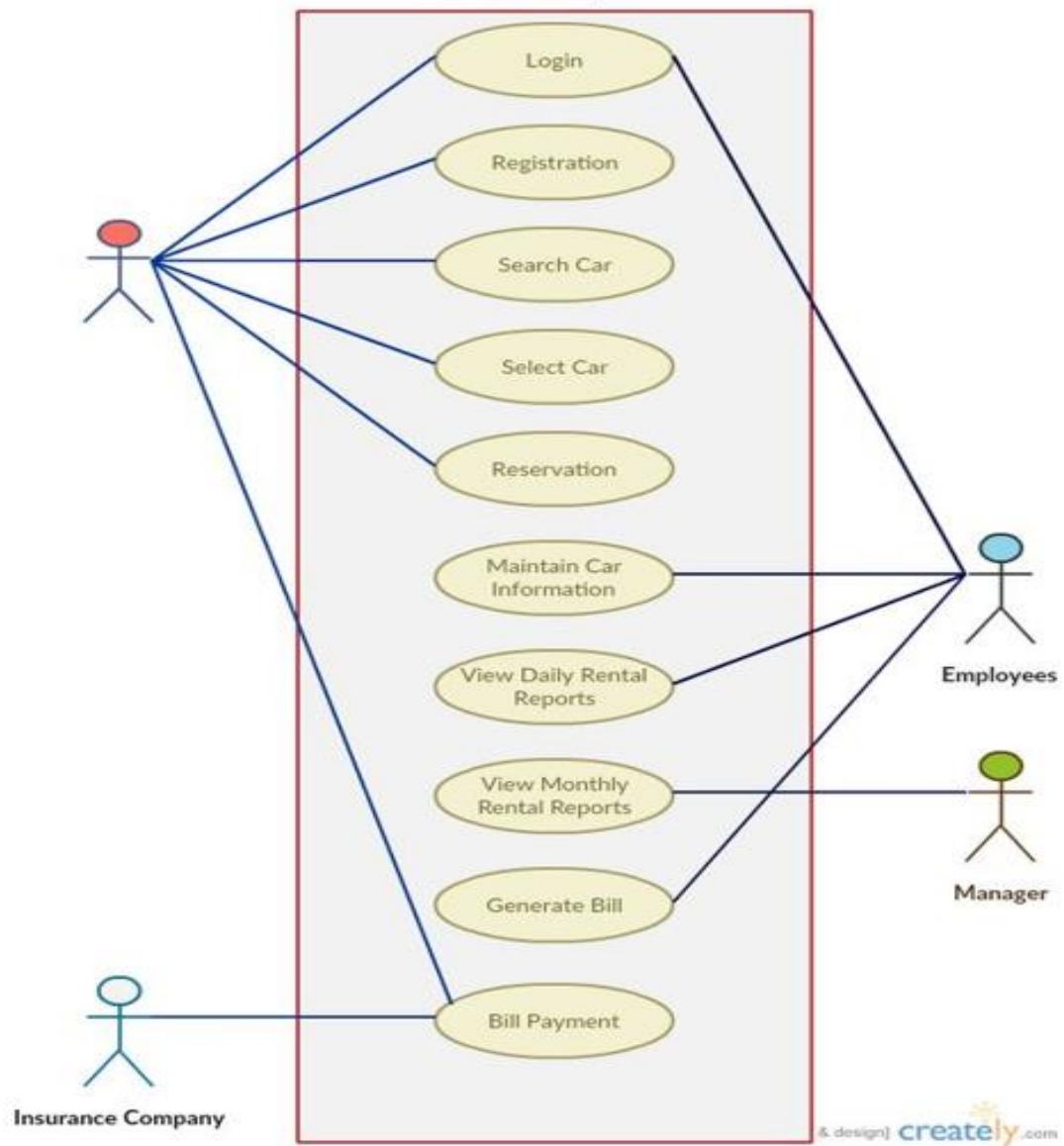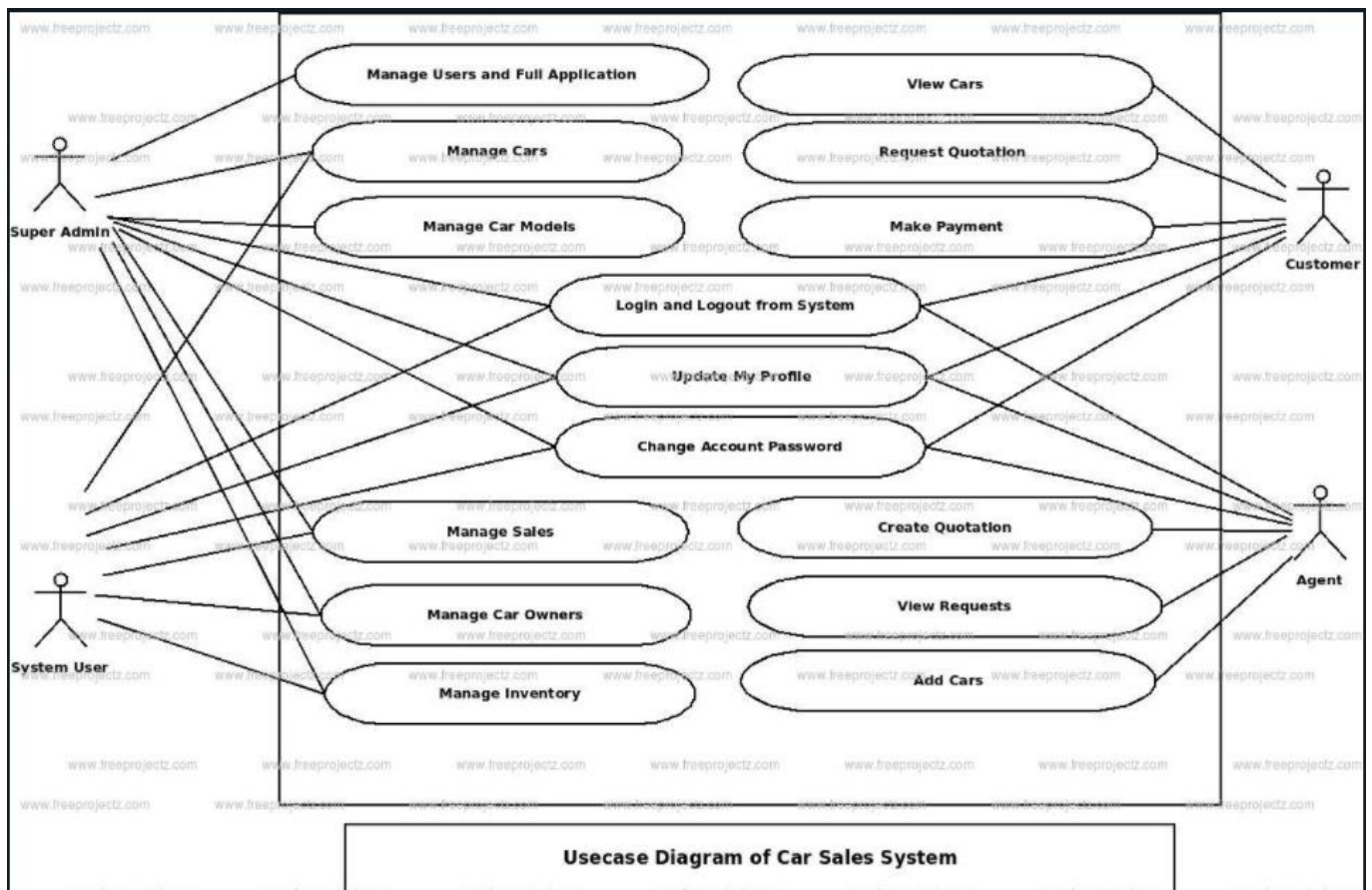# Figure 1. User Case Diagram

Figure 2. Application Case

Figure 3. Use Case Diagram

Usecase Diagram of Car Sales System

8. Glossary

Acronym	Expansion
RAM	Random Access Memory
MB	Mega Bytes
UI	User Interface
GPS	Global Positioning System

9. Space for Updating Versions and Comments

Change Log:

Version Number	Removed Features	Added Features
0.0.12	-	-

Useful Links-

Link to the web based app-
www.zigsales.com

Acknowledgements-