**Use Case Document**

**Car-Nerd**

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# **Introduction**

Managing information for a vehicle can be quite time consuming. Many times, vehicle owners have multiple vehicles which becomes even more of a daunting task to manage this information. The Car-Nerd application allows users to add a single vehicle or multiple vehicles where they can keep track of car information such as model, make, year, license plate number, and VIN identification. Additionally, users can track current mileage, as well as mileage whenever oil change services are completed. Users also have the ability to add notes regarding service events or maintenance that needs to be performed on their vehicle(s). Even more, users can set reminder alerts so that the application will notify the user when they have important upcoming service tasks to be completed.

The use cases below will outline the user’s possible processes in a typical environment.

# **Explanation of Use Case Contents**

Use cases for the Car-Nerd application:

1. A typical case if the user interacts with the program as designed.
2. If the user does not provide proper login information.
3. If the user does not enter proper car information.
4. If the user does not enter proper new note information.
5. If the user does not enter proper new mileage information.

# **Use Case**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of Use Case:** | Car-Nerd Use Case | | | |
| **Created By:** | Dynamic Developers | | **Last Updated By:** | Dynamic Developers |
| **Date Created:** | 7/8/2020 | | **Last Revision Date:** | 7/9/2020 |
|  | |  | | |
| **Description:** | | User uses our software to store data and reminders related to one of their vehicles. | | |
| **Actors:** | | Car-Nerd User | | |
| **Trigger:** | | User wants to organize and maintain information for one or more of their vehicles. | | |
| **Preconditions:** | | 1. User owns a legitimate copy of the Car-Nerd software. 2. User has an internet connection. 3. User has at least one vehicle to maintain in application. | | |
| **Post-conditions:** | |  | | |
| **Flow 0:** | | 1. User opens the Car-Nerd program. 2. User uses personal credentials to log in. 3. User selects the Add Car button. 4. User adds a new car. (Assuming this is the first time they are using the program. This step is omitted if they are returning.) 5. If car previously added to application, user selects a car from the Select Car dropdown list. 6. User reviews car information and alerts based on previously entered information. (Alerts will not show if this is the first time the user is opening the program.) 7. User selects the Add Notes button. 8. User adds notes reflecting any changes to selected car since last login if applicable. 9. User selects the Add Mileage button. 10. User adds a Mileage entry reflecting the latest mileage, checking Oil Change if applicable. 11. User Saves changes. 12. User exports all existing mileage if it is desired to view in a .csv file. 13. User logs out of profile. 14. User exits program. | | |
| **Alternative Flow 1:**  **Alternative Flow 2:**  **Alternative Flow 3:**  **Alternative Flow 4:** | | 1. User opens the Car-Nerd program. 2. User fails to produce proper credentials. 3. User is unable to access any car details, add mileage, or add notes. 4. User opens the Car-Nerd program. 5. User uses personal credentials to log in. 6. User selects Add Car button. 7. User fails to properly provide proper information in adding a new car. 8. User is unable to select a car since a car could not properly be added assuming no other cars exist. 9. User opens the Car-Nerd program. 10. User uses personal credentials to log in. 11. User selects Add Car button. 12. User adds a new car. (Assuming this is the first time they are using the program. This step is omitted if they are returning.) 13. If car previously added to application, user selects a car from the Select Car dropdown list. 14. User reviews car information and alerts for selected car based on previously entered information. (Alerts will not show if this is the first time the user is opening the program.) 15. User selects Add Note button. 16. User fails to accurately provide all required information to add a new note. 17. An error message is produced and no note information was saved. 18. User opens the Car-Nerd program. 19. User uses personal credentials to log in. 20. User selects Add Car button. 21. User adds a new car. (Assuming this is the first time they are using the program. This step is omitted if they are returning.) 22. If car previously added to application, user selects a car from the Select Car dropdown list. 23. User reviews car information and alerts for selected car based on previously entered information. (Alerts will not show if this is the first time the user is opening the program.) 24. User selects Add Mileage button. 25. User fails to accurately provide all required information to add new mileage. 26. An error message is produced and no mileage information was saved. | | |
| **Goal:** | | User adds and maintains at least one of their vehicles in the application. | | |
| **Exceptions:** | | None | | |
| **Requirements:** | | User must own a legitimate copy of the Car-Nerd software and have access to the internet. | | |

Sponsor Acceptance

Approved by the Project Sponsor:

Date:

<Project Sponsor>

<Project Sponsor Title>