WASHINGTON STATE UNIVERSITY
VANCOUVER

CS 320 Course Project - Software Design Document

CS 320

Bayerische Spezifikation

Prepared by

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CONTENTS

1 Introduction

<TO DO: Please provide a brief introduction to your project.>

1.1 Project Overview

Bayerische Spezifikation is a site that will allow users to search through various BMW vehicle models and compare different attributes. The system will use a data driven diagram, perfect for our site as it is a data based. The site will offer a compare functionality, allowing users to make a selection on a car attribute, it will then compare it to another attribute selected by the user.

1.2 Definitions, Acronyms and Abbreviations

There are no acronyms or abbreviations that are included in the SRS or SDD that need to be defined. All listed information of the site is information know by all users, developers, and programmers.

1.3 References and Acknowledgments

No citations are needed, or to be included until the site is completed further. Additional data and information will be gathered from the internet, and sources and citations will be provided accordingly.

2 Activity Diagram(s)

1.4 D-1

The following diagram shows the steps and processes a user may take when using the site. The user will enter the site, browse the site, and find the vehicle they are looking for. The user may then fine tune their results and then use the compare function. The goal is for the user to be able to select certain attributes of a car to compare.

Compare Cars
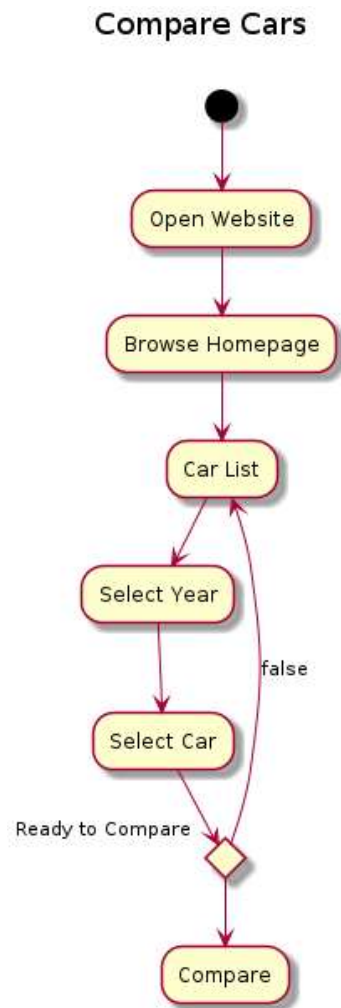
1.5 **D-2**

The following diagram depicts the compare functionality of the site. When the site is opened, the user is presented with the homepage of the site. From there the user may use the search bar to find what vehicle they are looking for. The user will open the site and be presented with the browse homepage for the site. From here they search internally for the car of their selection, or browse the car list, year, and model to find the car of their choice.
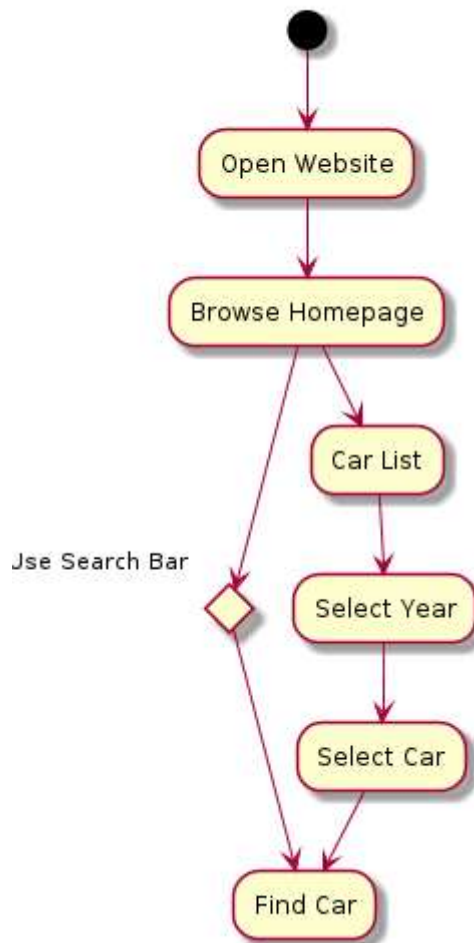
3 Class Diagram(s)

1.6 **D-1**

The following diagram depicts the classes and subsets of data for the system. Initial data set is described as 'Car'. This is varied and may change with the user's selection and choice, however the subcategory of the cars will be the same. As listed in the diagram, interior color, exterior color, Body style, and average MPG are subsets of the Car. From the car selection other choices are also available, Engie, transmission and wheelbase are all subcategories of the Car the user selects. Each of these categories and subcategories will be selectable by the user and allow them to be compared to other attributes of another car.
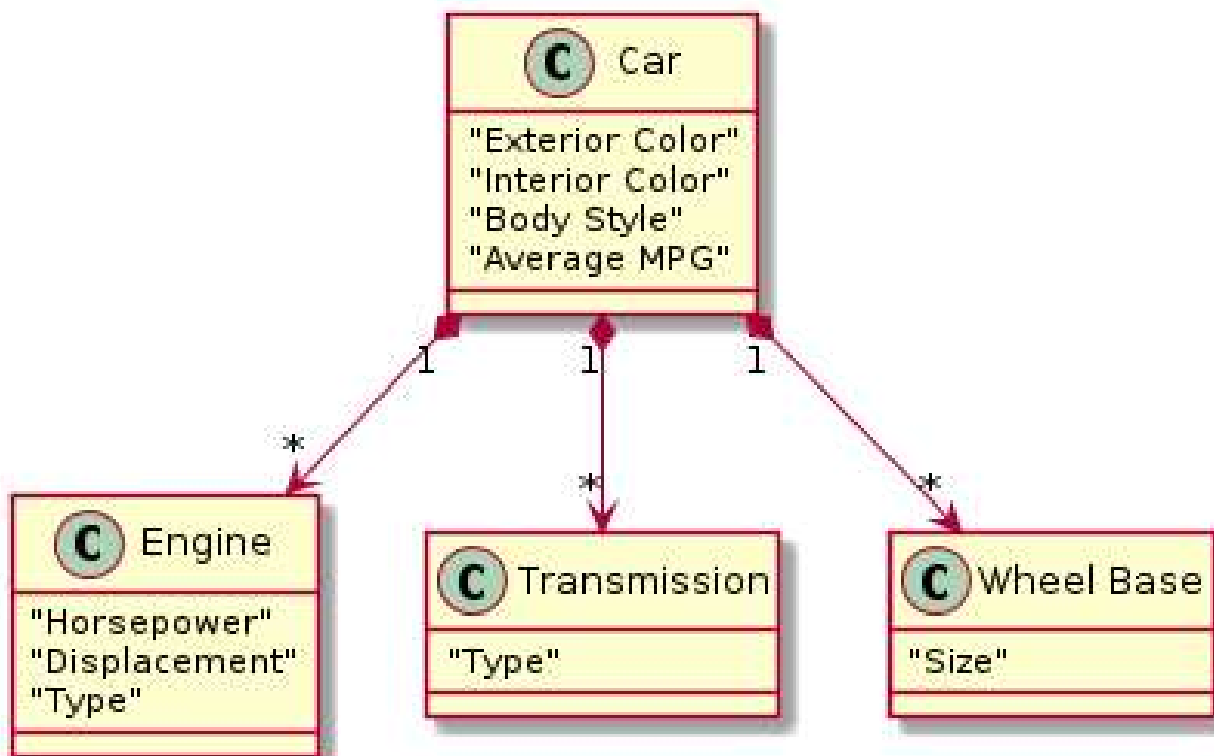
4 Behavioral Diagram(s)

1.7 **D-1**

The diagram below depicts the user, data, and data base that will be implemented in the system. Initial steps show the user and their selection of a car, from here the car will be chosen from the database implemented in the system. Once the car has been retrieved from the car database, it will then be sent back to the user. The user will then be able to view the attributes and features of the car that they selected. This process will be continuous across the system and allow the user to access car data at any moment.
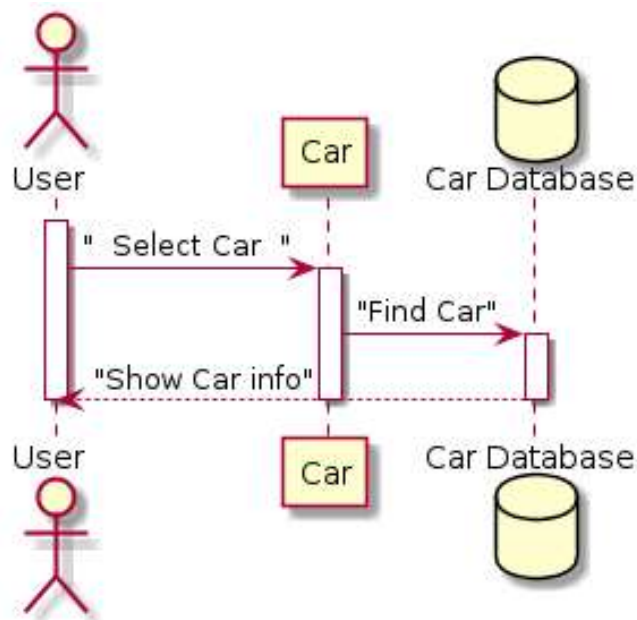
Car	This has all the attributes for each car. Each of the classes below need to be initialized in order for the car class to be complete
Engine	This is part of the car class where the attributes of the engine will be stored
Transmission	This hold the attributes of the transmission
Wheelbase	This hold the information needed to describe the wheel base

Appendix A - Group Log

Initial look over with group--- 11/10/2020-----30 min

Diagrams completed and section one -------11/15/2020------1hr45

Section 2 and 3 mockup----------11/18/2020-----2 hr

Section 2 and 3 completed 11/18/2020-------1hr38