

**CPIT-251 Software Engineering**

**Section: BR 17-Sep-2020**

**Vehicle part online ordering system**

**Instructor**

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Team Members

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**Introduction**

VPOOS is a central hub for ordering and collecting any component or equipment that is crucial to the functionality of your car, or any other accessories for modification. Whether it be bumpers, radiators, calipers , and spoilers, VPOOS has it! We eliminate the fuss of having to go over to your official distributor, by housing them in your phone and providing whatever they supply from the comfort of your own home.

**Problem Description**

In modern history, cars always have been integral part of the functionality of the world, and that cannot be disputed. Whether it’s for your own transport, or for commercial and diplomatic use, cars are incredibly necessary and there is no plausible substitute for them when it comes to short range (and possibly long range) transportation. Part of owning a car is maintaining it and keeping it functional, and that must be done through constant periodic maintenance and replacing whatever parts necessary for it to continue functioning properly. Our project focuses on the second part, where the owner of a car has to buy parts in order to replace them because of defectiveness or any other reason. In most cases, a customer has to visit an official distributor of car parts to order. Usually, that is an extensive, lengthy process, where you have to visit the distributor and check for availability, order the part, and then wait for extended periods of time while they fetch the part from the warehouse, if it is available at all. In order to circumvent this problem, we have proposed a solution.

**Solution**

Our proposed solution makes sure that you do not have to go through all the usual fuss in order to obtain parts for your car. We are providing a central hub, from which you can select your car make, model, and year of manufacturing, after which you browse for parts. In this Software Program, you can check for availability and price before ordering, which eliminates having to visit the distributor and checking it by yourself. Whenever you settle on a certain part you’d like to order, you can immediately order it, and then be processed to payment and method of obtaining (Delivery or pick-up).

This solution solves most of the problems that make car maintenance an exhausting process for car owners. It offers ease of access, and completely eliminates the physical labor required to check for and collect the parts necessary for your vehicle.

**Tools**

For this Software Program, there is a recommended set of tools that will help make the implementation of this project easier:

* Warehouse database, to perform CRUD operations in order to keep items and quantity up-to-date, and dynamically alter them.
* A Dedicated Server that will help process users’ requests, query the database accordingly, and formulate a response then send it back to the user.
* Friendly user interface so the users can interact with the back-end and process their request.