

Advanced Programming

Season 2024-I

Workshop No. 2 — Object-Oriented Programming

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Welcome to the second challenge Advanced Programming course, congratulations to survive to first challenge.

As you remember, you had been hired as software engineer in a vehicle constructor company. You delivered a first version for the catalog of vehicles, and it was fine. However, the CTO of the company thinks you could a better analysis, documentation, and some possible improvements to the code, for example the menu management or the client authentication, it is because due at the good product you built, now external users could just search and watch vehicles.

1. You must deliver a technical report with next specifications:
2. Refine/update the user stories you consider for the project.
3. Create CRC Cards to identify in a better way the clases. For now, just one module looks fine.
4. Create activity diagrams in order define and understand better the processes into the tool.
5. Create sequence diagrams in order to understand better callings between objects and interactions with the final users with the application.
6. Create a new version of the Class Diagram for the application.
7. Create State Diagrams per each one of the objects you consider could have change in the state.
8. Describe the changes and improvements you apply to the code.

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Any comment or concern related to this document could be send to Carlos A. Sierra at e-mail: *cavir-guezs@udistrital.edu.co*

With the technical report, you must to upload the code with the changes, it means, the last version you could make. You must deliver a repository in *GitHub* where you must have a folder called **workshop-2**. There, you should let your *python code*, a simple *README* file as description of the folder, and a *technical report* in pdf format.

Into the **technical report** all *UML diagrams* of your solution should be provided. Also, you must write about technical concerns and decisions you make to create the architecture of your proposed solution.