

# Software Modeling I

## Season 2024-III

### Workshop No. 1 — Object-Oriented Programming

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Welcome to the first workshop of the *Software Modeling I* course.

Hello, you have been hired as a backend software developer at an arcade video games machines company. We don't know how, but **you did it**.

As part of your *challenging job*, the CTO asked you to create a **first demo** to show the first customers the company's potential.

Then, you must perform the following steps:

1. Ask 15 students what things they *would like to see* in a **catalog** to buy an **arcade video games machine**. Maybe it's a good idea to ask *students* who are **passionate** about *video games*.
2. Based on student responses, create a list of user stories following the following format:  
*As a <role>, I want <action>, so what <impact>.*
3. The minimum required functionalities are listed below:
  - **Choose** the **type of materials** of a machine to buy: *wood, aluminum* or *carbon fiber*.
  - **Displays** the **list of available games**.
  - **Add** games based on a **code** to the machine to be purchased.
  - **Finalize** the **purchase** of the machine and **add** customer information for **delivery**.
4. Based on *user stories*, add any other functionality requested by end users.

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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*

5. The application should work via a **command line**. So write your code to work as a **CLI application**.
6. Write a **report** with the following *sections*: **user stories**, **object-oriented principles analysis**, **CRC cards**, **activity diagrams**, **sequence diagrams**, and **class diagrams**.

Remember that you want to become a *rock star software developer*, so you have to do your best. The report must be in **English**, **PDF format**.

Additionally, you must submit a **URL** to a *GitHub repository* where you will leave both the documentation & the code for all the course workshops. Create a folder for each one. Remember, the repository should have a general **README**, and inside each folder a **README** with a summary of the workshop development, the contents of the workshop folder, where the **report** and **code** should also be placed.

Deadline: **Saturday, September 14, 2024, 8:00 PM.**