
SE311 SPRING 2023-2024 / 19-04-2024
Lab Work 7 – Façade/Singleton Pattern
Goal: Practice on Façade and Singleton Pattern

In this lab, you will be using the code provided to you, **Facade.java**, in BlackBoard under Lab 7. Download and run it so that you can get familiar with the scenario.

From the code, you can understand that the user is in an entertainment room at home. In this room, he/she has a TV, a sound bar and a streaming device.

The user wants to watch a movie or a TV show from the streaming device on the TV with sound coming from the bar. However, as it can be seen from the code, for each device he/she needs to turn on them, choose different profiles for the sound bar, and choose the streaming app from the streaming device. After using devices for some time, he/she gets overwhelmed by this process per movie or TV show.

The user desperately comes to you and begs you to streamline this process. What can you do to help him/her using Façade Pattern?

Please note: Even though the user prompts clearly the content to watch, configuration and app name, he/she still needed to use strings “Cinema” and “Netflix” to make the code work. Your solution must use only the prompt that the user gives, e.g.:

"I want to watch a movie with Cinema mod on Netflix..."

Bonus: Make your Façade class Singleton.