

## Assignment 2

The evaluation of this assignment's tasks as well as the tasks of Exercise 4 and Exercise 5 will be held in the week of October 22<sup>th</sup>, and corresponds to 60% of the total Assignment grades. The required tasks are listed below; however, it is expected that each group enriches the game with other elements and features to make it more attractive.

A technical report and a trailer video must be provided with the source code. The 10% of the Assignment 2 grade will account for the report and video delivered. Remember that the Laboratory component corresponds to 80% of the course final grade.

### Tasks

The tasks of Exercises 4 and 5 will be evaluated with **13 points**: HUD and Pause worth 3.5 points, OBJ objects support worth 1.5 points, rearview camera worth 3 points, billboard behavior worth 1.5 points, particle system worth 2 points and the 2D Lens flare effect worth 1.5 points.

The tasks of this assignment are:

- to implement the planar shadows (**2 points**) and planar reflections (**1.5 points**) by using the blending and stencil mechanisms as explained in the theoretical class.
- Bump-mapping (**1 point**)
- Skybox (**1.5 points**) and Environment cube mapping (**1 point**)

Regarding the above tasks, the students can base their development on the attached AVT\_Planar\_Reflections\_Shadows.zip and AVT\_AdvancedTexturing.zip demo files.

### Notes

1. The Groups should upload their source files to the Fenix System at the end of their evaluation.

2. The Groups should deliver also through Fenix, until October 24<sup>th</sup>, a **technical report of 6 pages** with a link to download a **trailer** video. The report **does not** have to explain the techniques. It should rather inform, for each feature of the game, which techniques were used and how, illustrating with drawings and/or images.
3. The **total grade** of the Laboratory component will be the sum of Assignment 1 with Assignment 2. The total grade of Assignment 2 is composed by: code (90%); technical report (5%); and trailer video (5%).