

# Project work – HTML5 Game

## CT30A2910 Introduction to Web Programming

In this course project, I've developed a 2D-sidescrolling game that challenges players to navigate a spaceship through an asteroid field. The primary objective is straightforward: survive as long as possible to achieve a high score, with the game's intensity increasing over time.

The game has a user-friendly menu system that enhances the overall gaming experience. It allows players to customize their experience by choosing background music, game modes, and muting in-game sounds.

Furthermore, the game keeps track of and displays the top three scores achieved by players, storing this information in the browser's local storage.

However, it's important to note a couple of bugs in the game:

1. Font resources may not load as quickly as desired, leading to an initial presentation where in-game text appears somewhat unpolished.
2. Occasionally, players may pass through asteroid collisions without taking damage.
3. Automatic device orientation doesn't function as expected on browser phone emulators, requiring manual device rotation for the aspect ratio to align correctly.

Here are the main features of the game and suggested points for them.

Feature	Max points
Well written PDF report	2
Application is responsive and can be used on both desktop and mobile environment	4
Application works on Firefox, Safari?, Edge and Chrome	2
There is a clear plot in the game. It has a start and end.	3
Player can get their name in the scoreboard	4
Game uses physics engine, so that there are falling parts / enemies / players	2
There are enemies that can hurt the player	3
There is music and sound effects when player shoots/jumps or anything like that	3
Gamer can play the game with touch screen (this is in addition to general points, as here there needs to be input system build for touch screen)	3
The game code has been well organized and commented	2
The game uses Phaser's particle system	1
The game has menus where the player can see high scores, change the game song mute sounds and change games	3
The game has three different game modes that offer varied gameplay	3
The game looks polished and is fun to play	2
<b>Total</b>	<b>37</b>