

# Assignment 2 group 27

## Requirements for sprint #2

We should make requirements for the features we want to implement for the next sprint.  
Each team member should first make requirements for his task and write them below here.

### Different resolutions

Must have:

- The game must have no fixed resolution.
- The game must be playable on different resolution settings.

Should have:

- The game should look and function the same on different resolution settings

Could have:

- An option where the player could change the resolution used.

### Restyle the GUI class (Sytze)

Must have:

- The new gui package must contain multiple classes.
- The new gui code must make it easier to switch to a different pane.
- The new gui code must be more readable.
- The classes in the gui package must have clear and split responsibilities.
- The new gui package should make use of oop-hierarchies.

Should have:

- The new gui should not have less functionality than the old gui.
- The new gui package should have classes for different panes.
- The new gui package should contain a MainGui class that should be responsible for switching panes and running the game.

### Change the fish that the player controls to a shark (Stefan)

Must have:

- The new image must look like a shark

Should have:

- The new image should scale to a decent size
- The new image should make it clear that this is the player

### Tests for the GUI class (Stefan)

Must have:

- The tests must cover at least 75% of the branches
- The tests must cover all gui classes

Should have:

- The tests should cover at least 50% of the methods that can be called.

### **Sound effects (Sytze)**

Must have:

- The user must hear a sound when the shark eats a fish.
- The sound must be shorter than 2 seconds.

### **Restart the game (Michiel)**

Must have:

- The user must be able to restart the game when he has been eaten by a fish.
- The user must be able to restart the game when he has won the game.
- The current score of the user must be set to zero after restarting the game..
- The size of the lasershark must be at his beginning size when the game is restarted.

Should have:

- The lasershark should be in a sea without other fishes when the game is restarted.

### **Different fishes appear(Youri)**

Must have:

- The fishes must not all use the same sprite.

Should have:

- The fishes should have at least 10 different sprites to choose from.

### **Make more tests for the highscore class(Daan)**

Must have:

- Every method from the highscores shall be tested
- The overall coverage of the highscores class shall be higher than 95%

### **Restyle the highscore class(Daan)**

Must have:

- The highscore class shall be more readable
- The highscore class shall have a singleton structure

## New UML:

