Requirements

Single statement of need: A simple boat game for a single user, with the objective to capture colleges in order to win, aimed at showcasing the course to prospective students.

Initially as a group we read the product brief, and discussed our thoughts and opinions on what they were. We made sure everyone had the same idea of what they meant and then started discussing ideas around how we should approach the project. To ensure we could meet all the customers requirements, we booked a meeting with our customer to discuss what they wanted the app to be like.

In order to prepare for the meeting we decided to prepare a list of questions that would allow us to meet all different aspects of potential requirements. Using Mural, we created a shared idea board with 4 different types of questions to look at: Who (e.g. Who is the ideal target market), What (e.g. What should the final objective be?), When (e.g. When will you be able to capture a college?) and How (e.g. How long should the game last?). Inside these 4 components, we discussed and created tiles which we then simplified into a list of questions to ask within the meeting with our customer.

We have presented our requirements in 3 tables: User requirements, Functional Requirements and Non-Functional Requirements. The functional requirements show what the system should do and the non-functional requirements show the qualities a system should have. In the user requirements there is the Requirement, the ID (determined by User Requirements shortened to USR), Importance (the importance of each requirement represented either High, Medium or Low), Risks (linked to the risks table, the risk ID is of that in Risk1.pdf), and environmental assumptions. The functional and non-functional requirement tables contain the Requirement, the ID (determined by either functional (FR) or non-functional (NF)), the user requirement ID (the ID that relates to the user requirement its derived from), the priority of the task (represented by either High, Medium or Low) and the Risk ID (the ID from the risk table, that the requirement links to).



User Requirements

H = High Priority

M = Medium Priority

L = Low Priority

Requirements	ID	Importance	Risks	Environmental Assumptions
To be played on desktop	USR1	Н	R9	N/A
Single player game	USR2	Н	R9	Because it's taking place in a busy environment it needs to be clear its for one person - additionally there is only one set of controls so its clear here also
Intended for visiting potential students and families	USR3	М	R9	N/A
Should last 5-10 minutes	USR4	Н	R9	There may be many people waiting to play, so it's important it's implemented
Challenging but easily winnable	USR5	M	R9	Don't want to frustrate users in a busy crowd
Should be portable - able to be played in different locations	USR6	L	R9, R3	To be played in a busy room
Goal is to 'capture' or 'destroy' other colleges	USR7	М	R9, R3	N/A
Music is desirable	USR8	L	R9, R3	Assumption there is going to be audio playback in room played
Should be an option of controls the player wants to use	USR9	Н	R9, R3, R7	We are using conventional controls - should be easy to pick up
Collision between boats - although no combat	USR9	М	R9, R3	N/A
Should run on varying screen	USR11	Н	R9, R3	Needed for demonstrations

sizes				
2D Game	USR12	М	R9, R3	N/A
Experience points to increase capability	USR13	М	R9	N/A
Clear graphics	USR14	Н	R9, R6, R8	We can't make assumptions on the ability of the players
Intuitive rules	USR15	Н	R9, R6	Players need to be able to make sense of the rules in a busy environment
Should be clean and non-violent	USR16	Н	R9	N/A
Colleges are automated using AI	USR17	М	R9	N/A
Should be finished by the 4th February	USR18	Н	R9, R2	N/A
Colleges Fight Back	USR19			

Functional Requirements

Description	ID	User Requirement ID	Priority	Risk ID
The game should have a start page	FR01	USR15	Н	R6
The user should be able to control the boat	FR02	USR2	Н	R7
There should be a victory/failure page	FR03	USR5	М	R6
There should be numerous colleges that will need to be captured	FR04	USR7	М	R9
The colleges should shoot at the user's boat	FR05	USR19	М	R9
If the user is hit by a boat they need to take health	FR06	USR7	М	R9

damage				
The user should be able to shoot from their boat	FR07	USR7	М	R7
There should be an option for controls that the user wants to use	FR08	USR9	L	R7
The game should fit on any sized screen	FR09	USR11	L	R9
The more the player moves, the more experience points they should get, increasing game capabilities	FR10	USR13	L	R7
There should be music in the game	FR11	USR8	L	R9
To win the game users need to capture all the colleges	FR12	USR7	H	R9
There should be sound effects	FR13	USR8	М	R6

Non-functional Requirements

Description	ID	User Requirement ID	Priority	Risk ID
Family friendly	NF01	USR3	Н	R9
Should be for prospective students	NF02	USR3	Н	R9
No blood or violence	NF03	USR3	Н	R9
Should be accessible for people who have colour blindness	NF04	USR3	L	R6
Should be intuitive	NF05	USR5	М	R6