

Sprint Reflection on Iteration2

Bachelor Graduation Project: Model-based Optimization and Visualization of Aircraft Noise

Team: Elvan Kula and Hans Schouten

User Story	Task	Task Assigned To	Estimated Effort per Task	Actual Effort per Task	Done (yes / no)	Notes
The user wants the project team to analyse the problem, context and possible solutions and to document this in a Research Report	- Chapter 5 – Approach (including comparison C++ vs C#)	Hans & Elvan	6 Hours	6 Hours	Yes	Architecture diagram and MVP structure were discussed with project coach
	- Chapter 6 – Available Libraries and Tools	Elvan	2 Hours	3 Hours	Yes	
	- Chapter 7 – Quality Guarantees	Elvan	2 Hours	2 Hours	Yes	
The user wants the project team to keep their emergent architecture updated in an iterated manner	- Update Emergent Architecture document	Hans & Elvan	2 Hours	2 Hours	Yes	Emergent architecture will be updated weekly (UML diagram will also be added)

The user wants to calculate noise contours produced along the input trajectory	- Identify the switch points that satisfy the reference value by using linear interpolation	Hans & Elvan	6 Hours	6 Hours	Yes	Searching the clustering algorithm that is best suited for our project took +2 hours (with example sets in Matlab)
	- Iterate the frame and find clusters with a similar noise level to generate contours	Hans	8 Hours	10 Hours	Yes	
The user wants to visualize the calculated noise contours in Google Earth	- Implement the algorithm that converts Rijksdriehoekscoördinaten to WGL coordinates (long/lat)	Hans & Elvan	5 Hours	5 Hours	Yes	
	- Visualize the noise contours with a basic overlay in Google Earth	Hans	6 Hours	6 Hours	Yes	
The user wants to visualize the input flight trajectory and the produced noise contours in a real-time 3D animation mapped on Google Earth.	- Set-up of basic KML file holding the trajectory	Elvan	5 Hours	5 Hours	Yes	+1 Hour to color the line animation in the right way
	- Set-up of basic KML file holding the airplane model	Elvan	3 Hours	3 Hours	Yes	
	- Set-up of basic KML file with a simple line animation	Elvan	6 Hours	7 Hours	Yes	