Sprint plan 3

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
The user wants the project team to keep the source code maintainable	- Set-up project structure following MVP model	Hans	3 Hours
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 Google Earth plugin in the GUI - Extended visualization of noise contours in Google Earth with animated colour map - Extended animation of flight trajectory in Google Earth (+ smoothening data) - Compose all components in animation together (airplane, trajectory, contours) - Real-time updates of the animated trajectory and noise contours (+ tweaking the refresh rate)	Hans Hans & Elvan Elvan Elvan Hans & Elvan	4 Hours 5 Hours 4 Hours 4 Hours 6 Hours
The user wants to visualize smooth noise contours produced along the input trajectory	- Implementation of spline interpolation algorithm to smoothen out the contour lines	Elvan	4 Hours
The user wants to calculate noise contours for particular noise levels (dB)	- Implement option to output actual noise data - Implement option to turn on or off particular noise contours for calculation/ visualization	Hans Hans	2 Hours 4 Hours

The user wants the project team to keep their emergent architecture updated in an iterated manner	- Process feedback of project coach - Update architecture of visualization component	Elvan Elvan	1 Hour 2 Hours
The user wants the project team to implement the trajectory optimization model in an efficient manner	- Read and analyse the documents on trajectory optimization (provided by client) • NoiseLAss documentation • AC Model • Optimization of Departure and Arrival Routing for Amsterdam Airport Schiphol	Hans & Elvan	 2 Hours 2 Hours 3 Hours