Milestone 1 - Group 6

Table of Tasks

Task ID	Description	Complexity	Justification
T1	Planning the work Set up a Kanban Board in GitHub, plan how to handle the developing, merging and communication in the group	Easy.	File created: 4 folders containing 2 or 3 files. This increases with time. Folder was: meeting folder, milestone folder, document folder, literature folder
T2	Understanding how to use Doxygen	Medium	No file created. We had difficult time to understand the tool in the beginning
T3	Meetings efter Individual Milestone 1 Get a common view of the system, talk about what we have understood about the system by using Doxygen and other Reverse Engineering tools. Several meetings were needed.	Medium/Hard	1 folder created containing diagrams of the system for each individual (5 files) We had pretty much the same understanding of the overview of the system. Hard to understand the details.
T4	Investigate how CMake work Locate where CMake is in the code, learn Bash script language. Not concluded	Medium.	Medium. No so much background in Cmake
T5	Start implementing CMake Tasks. Write CI config to test that the runtime CMake minimum version is in fact supported (and also all later stable CMake versions, in addition to the latest release candidate if existing).	Hard.	1 new file in: smce-gd/ci Lines of code: 78

T6	Investigate how FrameBuffer work and how we could implement some conversion functions	Hard. Understand in deep code functioning in c++	Hard, Understand in deep code functioning in c++ No documentation provided for pixel format. Try to guess by looking at other part of the code
T7	Start developing the rgb conversion functions. The library buffer is always RGB888 implement write rgb565 implement read rbg565 write unit tests Review the code	Medium	4 functions created and test code In: libSMCE/src/SMCE/BoardView.cpp libSMCE/include/BoardView.hpp libSMCE/test/BoardView.cpp Line of code: > 300
T8	Implement a way for environments to describe where the vehicle should be spawned. Investigate how the camera is positioned, the vehicle itself should also be placed where the environment wants it	Hard	The syntax of the .gd and .tscn file are hard to understand. We need to read a lot of tutorials.And the front-end files are highly coupled. To add a variable requires multiple corresponding files to be modified together, but the file layout of the front-end files is very difficult to find. Line of code:12 Changes in smce-gd: Api.json ControlPane.gd ControlPane.tscn UartConsole.gd
T9	Start developing spawned vehicles. Not finished yet.	Hard	Added file In: smce-gd /project/src/
T10	Code deduplication. Check in Sonar Cloud where the duplication is and try to solve it. Merged to our dev branch	Easy.	Lines of code: 55 In: libSMCE/src/SMCE/BoardView.cpp

T11	Presentation preparation Prepare slides, dig deep into the understanding of the system and how we actually have understood the code and the architectural abstractions.	Easy.	2 files: slides, notes

Contribution Table

Name	Task Id	Contribution %
Elena Marzi Tornblad	T1 T2 T3 T6 T7 T10 T11	20% 20% 20% 33% 100% 100% 20%
Wei Guo	T1 T2 T3 T8 T9 T11	20% 20% 20% 50% 50% 20%
Clementine Jensen	T1 T2 T3 T4 T5 T6 T11	20% 20% 20% 50% 50% 33% 20%
Wenjie Jiang	T1 T2 T3 T8 T9 T11	20% 20% 20% 50% 50% 20%
Erik Tran	T1	20%

	T2 T3 T4 T5 T6 T11	20% 20% 50% 50% 33% 20%