Milestone 3 - Group 6

Table of Tasks

Task ID	Description	Complexity	Justification
T16	ArduinoGraphics support	Hard	Very complex to understand how the backend is linked to the frontend, also difficult to understand how to write and read to the framebuffer correctly, and to use/implement Arduino libraries correctly. Complexity also in understanding the godot language. 30+ changed or added files in the **backend**. These are the most important ones: • extra/samples/mkrrgb/library_patches/arduino_mkrrgb/src/MKRRGBMatrix.cpp • extra/samples/mkrrgb/library_patches/arduino_mkrrgb/src/MKRRGBMatrix.h • extra/samples/mkrrgb/main.cpp • extra/samples/mkrrgb/sketches/smile/smile.ino • include/Ardrivo/MkrRgb.h • include/Ardrivo/WString.h • src/Ardrivo/MkrRgb.cpp • src/Ardrivo/String.cpp • test/Graphics.cpp ≈15 changed or added files in the **frontend**. These are the most important ones: • project/src/attachments/Screen.gd • project/src/ui/sketch_control/ControlPane.gd • project/src/bind/FrameBuffer.gdns • src/bind/FrameBuffer.cxx • src/bind/Sketch.cxx
T13	Autoinstall CMake	Insane	Autoinstall CMake if absent (done) Autoinstall CMake if outdated (done) Files changed (in branch smce-gd/autoinstall-cmake):

			project/src/utilities/Util.gd project/Entry.gd project/Entry.tscn
T18	Frontend packaging and autoinstall libsmce	Hard	Not familiar with the cmake stuff. smce-gd SetupSMCE.cmake Cmakelist.txt Archive.cmake
OT03	Presentation 3 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
T01	Add unit tests to increase the test coverage in libSMCE (in progress).	Medium	Unit test for functionality and quality-like performance. Difficult due to needed understanding about c++ and CMake, which has made the progress slower due to needing to obtain knowledge about the topics.

Contribution Table

Name	Task Id	Contribution %
Elena Marzi Tornblad	T16 Backend T16 Frontend biding T16 Frontend review OT03	100% 25% 5% 20%
Wei Guo	T18 T13 OT03	100% 5% 20%
Clementine Jensen	OT03 T01	20% 100%
Wenjie Jiang	T16 Frontend OT03	50% 20%
Erik Tran	T16 Frontend T13 Autoupgrade CMake OT03	50% 100% 20%

*5% refers to reviews done of the code implemented.