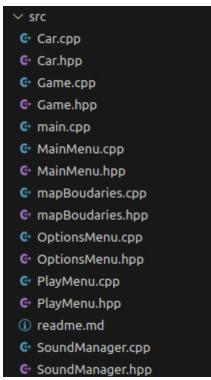
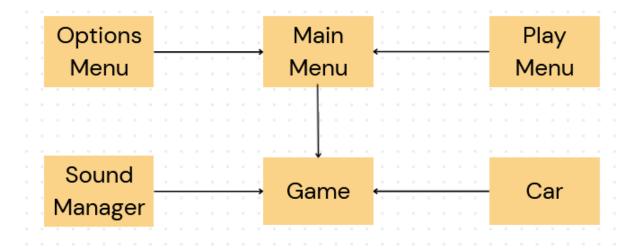
- 1. **Overview**: the software is able to successfully operate like the original micromachine game including its movement dynamics, bots, win condition, SFX, boosts, different vehicles, different terrain handling and boundaries. The software doesn't provide splitscreen, a level editor and weapons.
- 2. Software structure:

This is what our structure is composed of (along with the SFML library):



As for the relationships between the architecture, you can see it in this diagram:



- 3. Instructions for building and using the software:
 - Make sure you have SFML installed (but should be provided in the file already)
 - Make sure you have VScode installed with all the right extension to run
 C++
 - Choose a folder in a Linux environment where to put the software
 - mkdir Any_name_you_want
 - cd Any_name_you_want
 - Make sure the repository is empty
 - Make sure you have an SSH key and that you have the proper authorizations to use it
 - git clone the repository with "git clone git@version.aalto.fi:cabrask1/micro-machines-2.git."
 - cd libs
 - cd box2d
 - mkdir build
 - cd build
 - cmake ...
 - make
 - cd ~/Any_name_you_want
 - mkdir build
 - cd build
 - cmake ..
 - make
 - cd ..
 - code.
 - Start debugging

Basic user guide:

Upon starting the game, the main menu will appear. To select something you can use the arrow keys on your keyboard and press enter to go forward. In the actual game, there are only 4 control keys and 1 boost key:

Top Arrow: AccelerateBottom Arrow: Decelerate

Left Arrow: Turn leftRight Arrow: Turn rightSpace: Boost key

In order to win you need to make 3 laps around the racing course.

4. Testing:

For testing, we used the google test extension along with its documentation and methods. We focused on anything that is relevant to the software, even the details, to ensure that everything works correctly.

5. **Work log**: Work was evenly distributed between the members of the group as we can see in this work log divided per sprint

Sprint 1 (10 hours):

- Designing the gameplay:

Status: Completed

Responsibility: Team

- Setting up the workspace environment:

Status: Blocked

Responsibility: Team

- Figure out how to use libraries:

Status: Blocked

Responsibility: Team

- Figure out the structure of the code:

Status: Blocked

Responsibility: Team

Sprint 2 (10 hours):

- Setting up the workspace environment:

Status: Blocked

Responsibility: Team

- Figure out how to use libraries:

Status: Blocked

Responsibility: Team

- Figure out the structure of the code:

Status: Blocked

Responsibility: Team

Sprint 3 (20 hours):

Setting up the workspace environment:

Status: Success

Responsibility: Team

- Figure out how to use libraries:

Status: Success

Responsibility: Team

- Figure out the structure of the code:

Status: Success

Responsibility: Team

- Create main menu:

Status: Ongoing

Responsibility: Petteri

- Implement bots:

Status: Success

Responsibility: Jemma and Kevin

- Implement movement:

Status: Success

Responsibility: Team

- Use and edit maps from micromachines:

Status: Success

Responsibility: Jemma

- Pick car sprites to use:

Status: Success

Responsibility: Kevin

- Choose SFX and implementation:

Status: Ongoing

Responsibility: Kevin

Sprint 4 (20 hours):

- Figure out how to use libraries:

Status: Success

Responsibility: Team

- Create main menu:

Status: Success

Responsibility: Petteri and Michael

- Choose SFX and implementation:

Status: Blocked

Responsibility: Kevin

- Implement boundaries:

Status: Success

Responsibility: Petteri

- Implement boost:

Status: Success

Responsibility: Michael

- Implement oil spills:

Status: Success

Responsibility: Petteri

- Implement different terrain handling:

Status: Blocked

Responsibility: Jemma