

Toy Robot Program

Coding Challenge

Project Summary and Resources

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Definition of Done - Core Requirements:

- Working application
- Link to hosted VCS repository (preferred), or zip of source code
- Appropriate documentation such as a readme (it should be clear how-to setup and run the C++ app)
- Appropriate unit and/or integration tests included with the source code (these should be runnable)

Definition of working application:

- User can:
 - PLACE, MOVE, (rotate) LEFT, (rotate) RIGHT a Robot that is placed on a Tabletop
- The Robot:
 - Fill not fall off the tabletop
- Application can:
 - Import a file of moves, a moveset, for the Robot
 - Read user's inputs of moves, the moveset, for the Robot

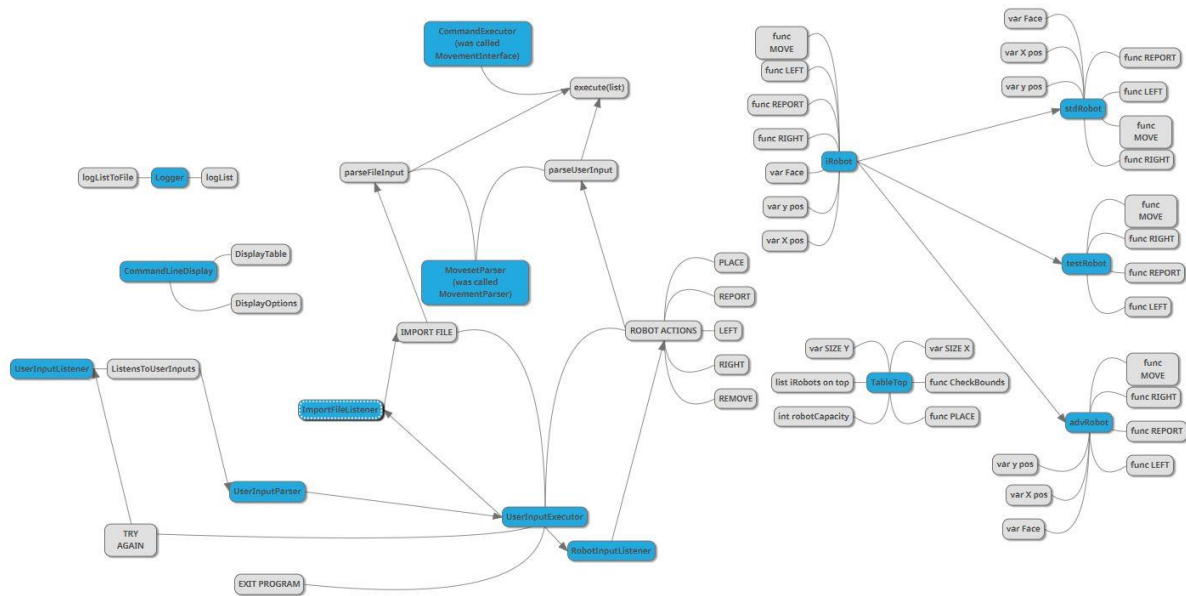
Repository Location:

https://github.com/MurkTsar/toy_robot_code_challenge

Stories and Items:

[Toy Robot Code Challenge.xlsx](#)

<https://app.mindmup.com/map/new/1727159217294>



Idea Design version 4

Design Specifications:

Uploaded in the doc/ directory

Folder Structure:

- `src/`: This folder contains the C++ source files. For now, you have `main.cpp`.
- `include/`: This folder will hold header files (`.h` or `.hpp`) that declare functions, classes, etc., that you will define in `src/`.
- `lib/`: This is where you can place any external libraries, like GoogleTest, or the custom libraries.
- `doc/`: This will store the project documentation (e.g., README, design documents, etc.).
- `tests/`: This is for the unit tests and functional tests:
 - `unit_tests/`: Focus on individual components (e.g., classes or functions).
 - `functional_tests/`: Test complete features or system behaviors (e.g., the robot moving to the edge of the table).
- `.gitignore`: A Git file to ignore specific files like binaries or temporary build files.
- `README.md`: Documentation about the project, how to set it up, build, and run.