Team-10

Server

July 2, 2019

Überblick

• Vollständig in C++17 geschrieben

```
clude <functional>
```

- Vollständig in C++17 geschrieben
- Modularer Aufbau (Trennung in Network-, Messages-, GameLogic- und Serverkomponente)

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- MVC
- Replay implementiert

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- Vollständig in C++17 geschrieben
- Modularer Aufbau (Trennung in Network-, Messages-, GameLogic- und Serverkomponente)
- MVC
- Replay implementiert
- Alle Mods implementiert

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- Vollständig in C++17 geschrieben
- Modularer Aufbau (Trennung in Network-, Messages-, GameLogic- und Serverkomponente)
- MVC
- Replay implementiert
- Alle Mods implementiert
- Mehrere zeitgleiche Spiele

Krasse Features

Server

Server component for the Quidditch Game.

Getting started

You can choose between using Docker or manually installing all dependencies. Docker is the preferred method as it already installs the toolchain and all dependencies.

Docker

In the root directory of the project build the docker image ("server" is the name of the container, this can be replaced by a different name):

docker build -t server .

Now start the container, you need to map the internal port (8080 by default, to some external port 80 in this case) and map the external file (match.)son) to an internal file:

docker run -v \${pwd}/match.json:match.json -p 80:8000 server ./Server -m /match.json -p 8000

That's it you should now have a running docker instance.

Manually installing the Server

If you need to debug the server it can be easier to do this outside of docker.

Prerequisites

- A C++17 compatible Compiler (e.g. GCC-R)
- CMake (min 3.10) and GNU-Make
- · Adress-Sanitizer for run time checks
- SopraNetwork
- SopraGameLogic
- SopraMessages
- . Either a POSIX-Compliant OS or Cygwin (to use pthreads)

Optional: Google Tests and Google Mock for Unit-Tests

Compiling the Application

In the root directory of the project create a new directory (in this example it will be called build), change in this directory.

Next generate a makefile using cmake:

 Ausführliches README mit Anleitung zum Installieren und Nutzen

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Now start the container, you need to map the internal port (8080 by default, to some external port 80 in this case) and map the external file (match ison) to an internal file:

doctor run av Stoudt/match ison match ison as 50,0000 server at farver as /match ison as 8000

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docker build it server

Now start the container, you need to map the internal port (8000 by default, to some external port 80 in this case) and map the external file (match, json) to an internal file:

docker run -v \$(ped)/match.json:match.json -p 80:0000 server ./Server -m /match.json -p 8000

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Manually installing the Server

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- 263 Unit Tests
- Statische und Dynamische Analyse (Clang-Tidy und Address-Sanitizer)

Krasse Features

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- 263 Unit Tests
- Statische und Dynamische Analyse (Clang-Tidy und Address-Sanitizer)
- Keine Warnings, komplette Entwicklung mit Warnings als Error (-Werror)

Manually installing the Server

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SopraNetwork

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- Fertiges Docker-Image

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- Statische und Dynamische Analyse (Clang-Tidy und Address-Sanitizer)
- Keine Warnings, komplette Entwicklung mit Warnings als Error (-Werror)
- Fertiges Docker-Image
- CI (Testen des Docker-Images, Unittests (mehrfache Wiederholung in unterschiedlicher Reihenfolge))