Ukolnicek

Jan Svojanovsky

Main functions

- Client-server app for testing student program solutions
- Light version of apps like ReCodex or Progtest
- User communicates with server using console

```
Ann@Ukolnicek$ help
show-assignment [assignment name]
show-assignments
show-solution [assignment name] [solution name]
add-solution [assignment name] [file]
download-solution [assignment name] [solution name]
exit
Ann@Ukolnicek$
```
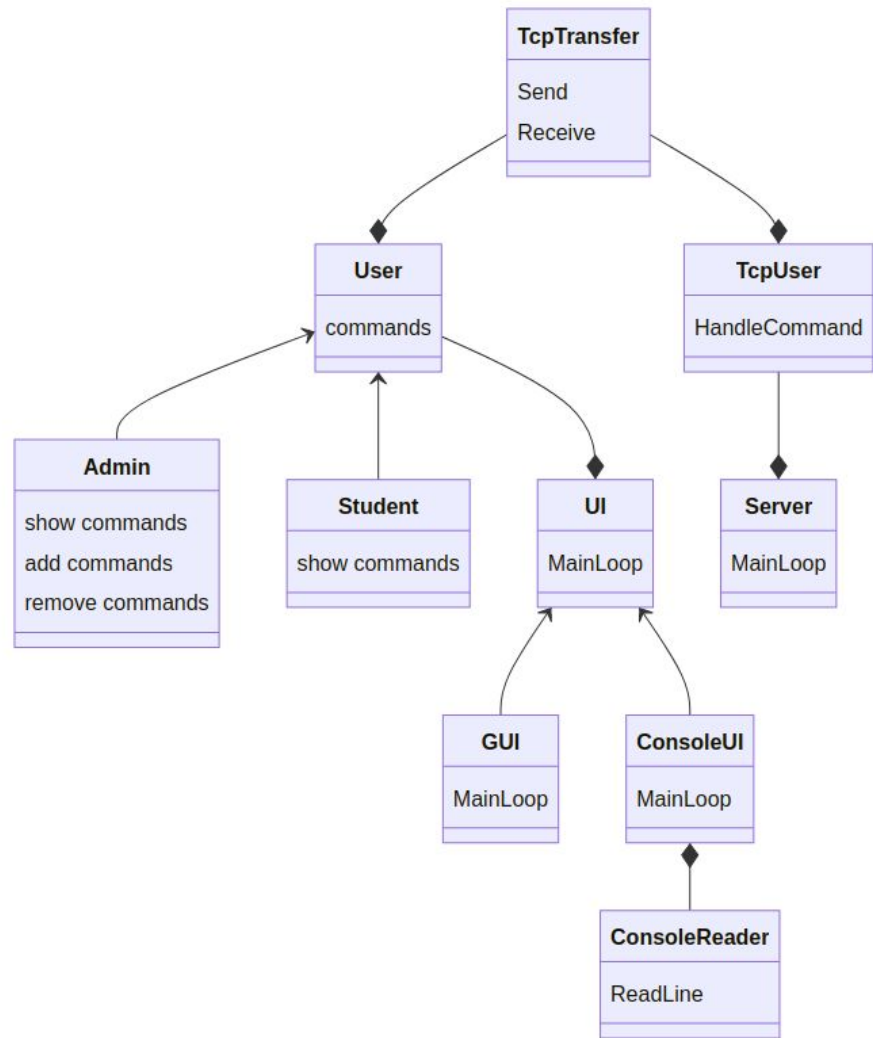
Main problems

- Networking
  - TCP/IP connection with serialized messaged
  - maybe HttpClient will be more suitable
- Windows dependent GUI's
  - main reason, why there is no GUI right now
- Scalability
  - app handles clients independently, but some parts (assignment and file handling) are inefficient

Main problems

- Data storage
    - everything is file or directory attitude
    - all data is serialized and stored
- Assignment handling
    - running new process

Architecture

Possible TODOs

- Security is not the greatest strength
    - encryption of passwords (or whole communication)
- More user actions
    - it works right now, but it can be more smooth
- ConsoleUI
    - new linux features like history of commands or smart tab completion (basic is implemented)
- GUI