# Cavoke: Gaming platform

HSE SPb AMI Spring 2022

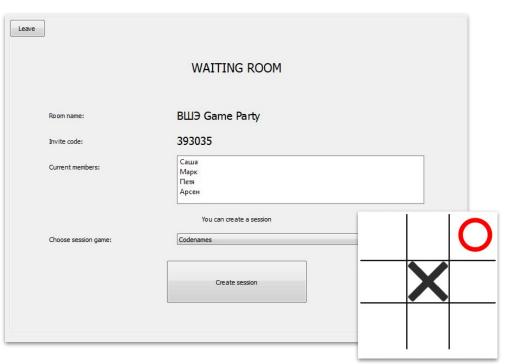
### Team:

Mark Ipatov
Alexander Kovrigin
Petr Tsvetkov
Mentor: Arsen Mukuchyan

# Cavoke - gaming platform

**Players** play different games on the platform

**Game developers** develop and publish games on the platform



Screenshot from «Cavoke»

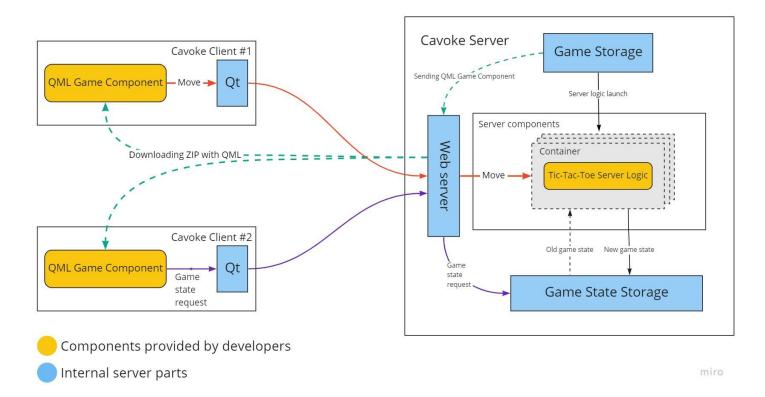
# Developer API

- Server-side: connect our library and implement 3 methods
  - validate check that a game can be started with the given settings
  - init\_state generate the initial state of the game by the given settings
  - apply\_move apply the move to the current state
- Client-side: QML application, 2 available functions
  - o processResponse parse and act on the response from the server
  - getMoveFromQml send a move to the server

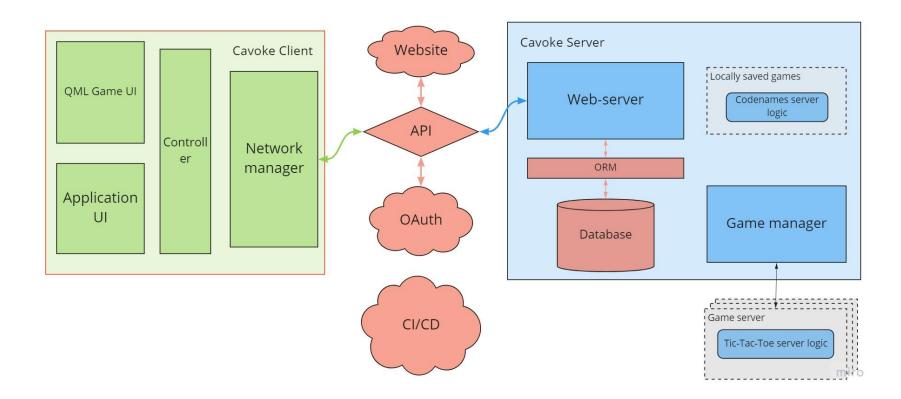
# Functionalities and Technologies

For players	For developers
Game stats Multiplayer	Connection of players  Game stats Framework for game development
Room creation Game library	Debugging instruments
Cross-platform	Data transport State storage
Technologies Google Cloud Drogon	Kanban Project management
nlohmann/json	<u>Kanban</u> Project management <u>Status doc</u>
nlohmann/json  Drogon ORM	Kanban
nlohmann/json	Status doc

## Platform architecture

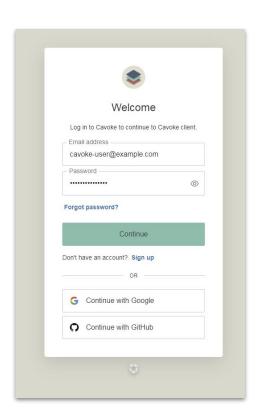


## Platform architecture

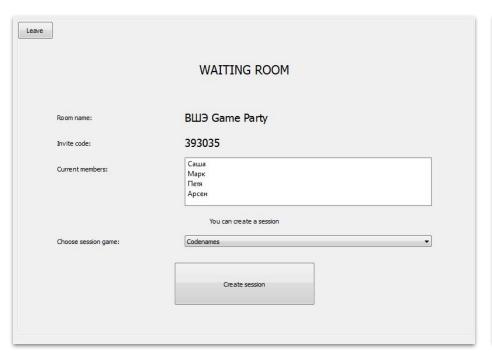


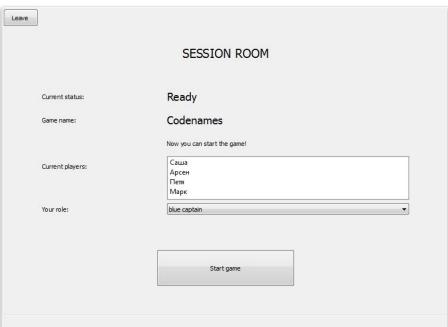
## Screenshots: Start



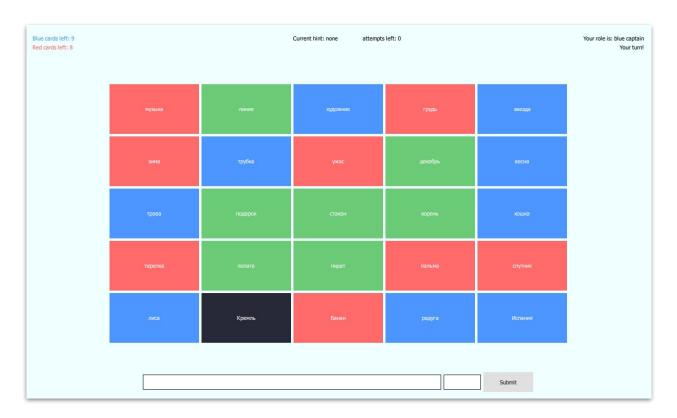


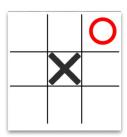
# Screenshots: Joining



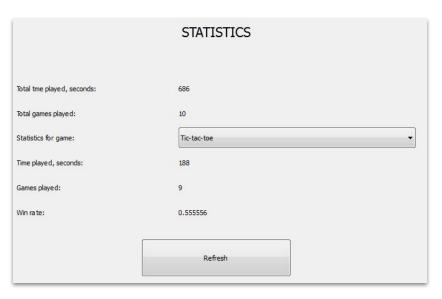


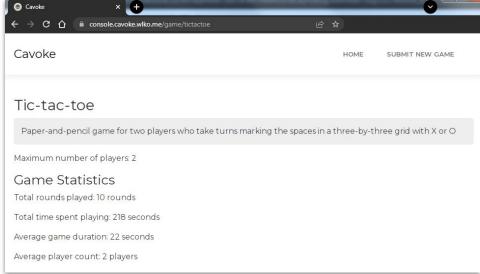
# Screenshots: Game process



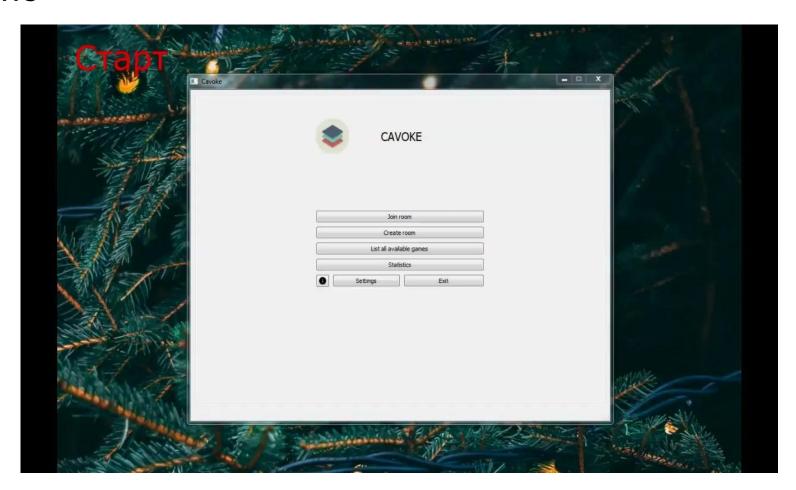


### Screenshots: Statistics





# Demo





github.com/cavoke-project/cavoke