

Thesis Registration Form

Student's Data:

Student's Name: Koike Ren

Student's Neptun code: O83AQR

Course Data:

Student's Major: Computer Science BSc

I have an internal supervisor

Internal Supervisor's Name: *Kitlei Robert Laszlo*

Supervisor's Home Institution: **ELTE Faculty of Informatics, Dean**

Address of Supervisor's Home Institution: **1117, Budapest, Pázmány Péter sétány 1/C.**

Supervisor's Position and Degree: *assistant lecturer (mestertanár)*

Thesis Title: Chess variant with cards

Topic of the Thesis:

(Upon consulting with your supervisor, give a 150-300-word-long synopsis of your planned thesis.)

This thesis implements a variant of chess that is playable on a web interface, either against a computer player locally or another player online.

The game itself is played on a standard chess board but it introduces a deck of cards that players draw from and play during the game.

Each card in the deck represents a specific action or rule modification that applies to the game.

These cards range from allowing players to move pieces in unconventional ways to introducing special conditions and exceptions to standard chess rules.

Some cards have ongoing effects; some cards cancel effects or undo actions.

The application offers several configurable options: choices of initial cards, points and handicapping.

It can also show previously recorded games and statistics.

Main tools used for this application will be React.js for the frontend, Express.js for the backend, MongoDB for database, and Socket.io for Websockets for real-time communication.

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