# 02466 Project work in Artificial Intelligence and Data LOGBOOK

Magnus Fredslund, [s183905@student.dtu.dk](mailto:s183905@student.dtu.dk)

Jakob B. Andersen, [s183909@student.dtu.dk](mailto:s183909@student.dtu.dk)

Hanlu He, [s183914@student.dtu.dk](mailto:s183914@student.dtu.dk)

The main purpose of the logbook is that it serves as a tool for you to keep track of the project and document project meetings.

**Project Meetings**

**Week 01: 05.02.20-11.02.20**

*Questions:*

*Which project is the best?*

*Advantages and disadvantages of each?*

*Reading, who and what*

*Getting overview of methods and state of art for the different projects. - All*

*Implementation, who and what*

*Implementation of base UI to easier visualize the game - MF*

*Results, who and what*

*Choosing the “Myretuen” - project*

*Decisions, who and what, what do you do alone, what do you do together*

*Magnus implement UI and game logic so we have the environment ready before creating the AI*

**Supervisor Meetings**

**Week 02: 12.02.20-18.02.20**

*First meeting:*

*Discussing basic ideas for implementation*

*Discussing ideas for AI*

*Showing the UI and discussing our choices of limitations and which game rules we did not include in first version*

*Action points for next week*

*Continuing with the game implementation - Magnus*

*Consider his ideas next meeting same time next week*

**Project Meetings**

**Week 02: 12.02.20-18.02.20**

*Questions:*

*What is the best ways to start our project - All*

*What is our timeline - All*

*How should we structure our time - All*

*Reading, who and what*

*Saw online lectures from David Silver - Deepmind - Hanlu*

*Read code - Jakob*

*Implementation, who and what*

*Implementation of game locic and finishing UI - Magnus*

**Supervisor Meetings**

**Week 03: 19.02.20-25.02.20**

*Presentation of results since last meeting*

*Showed our random agents playing and discussed the implementation of the first simple Linear Model*

*Plans for this week is to implement our first simple linear model.*

**Project Meetings**

**Week 03: 19.02.20-25.02.20**

*Questions*

*Saw online lectures from David Silver - Deepmind - Magnus*

*Started reading Impala paper - Hanlu*

*Started on online reinforcement cource - Hanlu*

*Implementation, who and what*

*Finished implemtentation of game - Magnus, Jakob*

*Implemented first linear model (LM) - Magnus*

*Results, who and what*

*After 525 rounds of play against a random agent - Magnus*

*Score LM 327 vs random 182 (16 ties) - (No self-play,… No search… The training was included in these games)*

*Decisions, who and what, what do you do alone, what do you do together*

*We saw first prove that a agent could play this game, by beating the random agent 2:1*

*Discussed improvement of AI for later implementation*

*Saved state in git under branch ‘version-0.1’*

*Finished Project Plan - All*

**Supervisor Meetings**

**Week 04: dd.mm.20-dd.mm.20**

*Presentation of results since last meeting*

*Action points for next week*

**Project Meetings**

**Week 04: dd.mm.20-dd.mm.20**

*Questions*

*Reading, who and what*

*Implementation, who and what*

*Results, who and what*

*Decisions, who and what, what do you do alone, what do you do together*

**Supervisor Meetings**

**Week 05: dd.mm.20-dd.mm.20**

*Presentation of results since last meeting*

*Action points for next week*

**Project Meetings**

**Week 05: dd.mm.20-dd.mm.20**

*Questions*

*Reading, who and what*

*Implementation, who and what*

*Results, who and what*

*Decisions, who and what, what do you do alone, what do you do together*

**Supervisor Meetings**

**Week 06: dd.mm.20-dd.mm.20**

*Presentation of results since last meeting*

*Action points for next week*

**Project Meetings**

**Week 06: dd.mm.20-dd.mm.20**

*Questions*

*Reading, who and what*

*Implementation, who and what*

*Results, who and what*

*Decisions, who and what, what do you do alone, what do you do together*