CENG 491
Computer Engineering Design
Weekly Progress Report -4

ErikSoft
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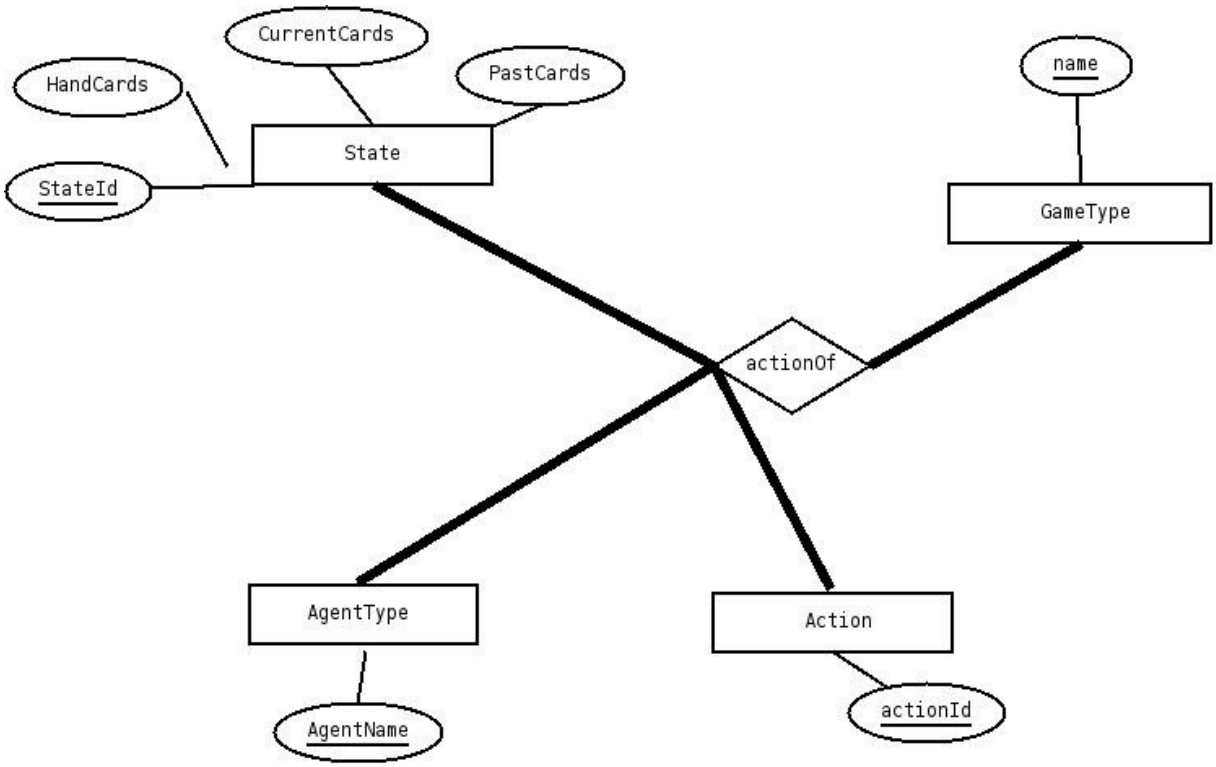
Work Done:

This week, Alper and Taylan drew entity-relationship diagrams and class diagrams of the initial design report. Volkan and İlkcan continued to write the report. At the moment, our initial design report is ready except second part of the fifth chapter (Description of Components), the seventh chapter(Libraries and Tools) and the Gannt Chart. The ER diagram for keeping state action pairs is the following diagram :



By the way, we decided on some design issues in the learning phase of the project. How to represent the state is decided as player's cards, thrown cards and the current cards on the table. We talked about that with our sponsor Özgür Alan and he agreed with us. Whether to use database or file to hold training data is decided too. Using database is much more effective since we will execute queries in order to get the training data.

In the meeting with Özgür Alan, we talked about some models which can be used for the learning phase. Artificial Neural Network (ANN) and support vector machine can be used to approximate our agent's evaluate function.

Work to be Done:

Until this weekend, the initial design report will be finished. Taylan and Alper will draw required diagrams, İlkcan will finish the fifth chapter, Volkan will work on libraries and Gannt Chart.

From monday to thursday, we will focus on and try to improve our code, and will research about learning algorithms and the models which are mentioned above.