To: Matthias Felleisen

From: Christian Hauser, Xiangxi Guo

Subject: System
Date: 9/28/20

• Model

-
 - The model holds the board state, and performs all of the actions needed to update the board state and advance to the next turn.
 - Represents the game board and rules (e.g. valid moves).

View

Lives in the Client tier.

Lives in the Data tier.

- Provides a visual representation of the board state, and a way for a player to directly play the game.
- It serves to facilitate debugging on the server side (with a local run) in addition to being a visual demo.

Controller

- Lives in the Logic tier.
- Passes information between the client and the model via the communication component.
- Governs the game loop and synchronizes interactions between the client tier and server.

Communication

- o Lives in the Client tier.
- Translates Json to a board state and vice versa and handles the tcp connections from the server to all of the different clients.

System Relations

- View receives the board state from the communication component, and then passes data through the communication and controller components to the model. It acts as a local client handler.
- Communication tier acts as a JSON translator, as well as a remote client handler.
- Controller passes information between objects on the client tier, and the model, and handles setting up the game, and taking turns.
- Model holds information about the game, updates the state of the game and provides information about turn validity.