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Risk: Project Part 2

I.) Project Summery

This is a PC/ Mac game that allows users to play risk against each other. We will allow users to log into a server and connect them to others trying to play. The app will connect computers and allow them play a game of risk. A stretch goal is to allow the user to play against a machine and to make it 3d.

II.) Project Requirements

1.) Must be supported on at least Mac and Linux.

2.) Must allow for up to 2 consecutive players at a time.( More players is a stretch goal)

3.) Must allow users to start a game.

4.) Must allow users to join a game.

5.) Must allow users to interact with game state.

6.) Must allow users to place troops.

7.) Must allow users to attack countries.

8.) Must allow users to end attack phase.

9.) Must allow users to move troops.

10.) Must allow users to end move phase.

11.) Must have the system manage the game state.

12.) Must have the system organize turns.

III.) Users and Tasks

Our system will have two kinds of users. All players will log in, as a user but a user that creates a game will have more privileges than a user that is joining the game. Each user will take turns going through the phases of risk. The system is in charge of organizing the game and managing the game state.

Common Uses

1. Plays a game.
2. Host disconnects.
3. Player disconnects.
4. Initialization phase
5. Reinforcement phase.
6. Attack Phase.
7. Move phase.

Problems:

1. If the connection is dropped or one player loses a connection.
2. If a host player gets disconnected.
3. If the game state that the server has is different than what the graphical state displays.
4. A user may try and do an illegal move.
5. A user may cheat by creating his own client
6. User could not have the correct libraries.
7. Improper hardware.

IV. Activity Diagram