LIST OF TASKS FOR SPRINT 5

DAIRE

* Create command pass through used to play the game: *roll, buy, mortgage, help, bankrupt etc…see help command for more info: only the commands that do not require any logic.*
* Implement auto-use of Jail card if in Jail and you have a jail card. *(check for jail card and type jail card if 1 is returned)*
* Create the logic for mortgaging houses:

*Mortgage the property most relevant to the amount of money required. Avoid properties with houses. Suggestion: Point based system that values the properties (+1 point for a house, +5 points for a hotel, +1 point if you have another house of the same colour, +5 if you have the full set). Mortgage the house with the lowest points that has the closest value to that required.*

*If no properties are left to be mortgaged (in order to pay rent for instance) then declare bankruptcy.*

\*Some of the logic relating to house purchasing can also be used for the mortgaging function.

CALLUM & CIARAN

* Logic Relating to property buying and ownership:

*Points based system as with mortgages: Create array of the value of each colour set. Increase value of property by 1 point for every owned property of that colour. Buy properties of a certain value if the balance is high enough (perhaps over 1000 or scaling based of the points value of each property – aka a formula based of values). Build houses on full sets once balance is above a certain limit (500 perhaps). Build on most valuable sets first(on the off chance the bot owns multiple sets of houses). Build hotel once 4 houses on the property and above a certain balance (again perhaps using a formula based on value).*

\*Some of the logic relating to house purchasing can also be used for the mortgaging function.