* Continue your conceptualization of a game state visualizer, building on what we did in class.

During the class, I thought of capturing the moves of every player in the form of json data type.

As conveyed during the class, I would capture every active player moves using the attributes: -

* Color (String)
* Card Drawn (int)
* Route Connected (Boolean)
* Location (Array)
* Score (int)

Timeline

Description automatically generated with medium confidence

The prototype shown above is state of for multiple players (P1, P2, P3).

Round 1

Yellow: Drew two cards

Red: Drew two

Green: Drew two

Blue: Drew two yellow from shown cards

Round 2:

Yellow: Connected Sault St Marie and Duluth

Red: Connected Denver to Omaha

Green: LV to SLC

Blue: LA to PHX

Y4, G4, B4, R7

Round three:

Yellow: Drew two from stack

Red: Drew two from stack

Green: Drew two from stack

Blue: PHX to El Paso

Y4, G4, B8, R7

Round four:

Yellow: Duluth to Omaha

Red: NYC to DC

Green: KC to STL

Blue: Houston to New Orleans

Y6, G6, B10, R11

"Instantiate" this prototype for at least two game states.

4 Jsons are created where the 4 rounds are executed: -

Yellow\_P1

[

{

"cardDrawn": 2,

"routeConnected": false,

"score": 0,

"location":[]

},

{

"cardDrawn": 0,

"routeConnected": true,

"score": 4,

"location":["Sault St Marie", "Duluth"]

},

{

"cardDrawn": 2,

"routeConnected": false,

"score": 0,

"location":[]

},

{

"cardDrawn": 0,

"routeConnected": true,

"score": 2,

"location":["Duluth", "Omaha"]

}

]

Red\_P2

[

{

"cardDrawn": 2,

"routeConnected": false,

"score": 0,

"location":[]

},

{

"cardDrawn": 0,

"routeConnected": true,

"score": 7,

"location":["Denver", "Omaha"]

},

{

"cardDrawn": 2,

"routeConnected": false,

"score": 0,

"location":[]

},

{

"cardDrawn": 0,

"routeConnected": true,

"score": 4,

"location":["NYC", "DC"]

}

]

Green\_P3

[

{

"cardDrawn": 2,

"routeConnected": false,

"score": 0,

"location":[]

},

{

"cardDrawn": 0,

"routeConnected": true,

"score": 4,

"location":["LV", "SLC"]

},

{

"cardDrawn": 2,

"routeConnected": false,

"score": 0,

"location":[]

},

{

"cardDrawn": 0,

"routeConnected": true,

"score": 2,

"location":["KC", "STL"]

}

]

Blue\_P4

[

{

"cardDrawn": 2,

"routeConnected": false,

"score": 0,

"location":[]

},

{

"cardDrawn": 0,

"routeConnected": true,

"score": 4,

"location":["LA", "PHX"]

},

{

"cardDrawn": 0,

"routeConnected": true,

"score": 4,

"location":["PHX" , "El Paso"]

},

{

"cardDrawn": 0,

"routeConnected": true,

"score": 2,

"location":["Houston", "New Orleans"]

}

]

I plotted graphs using the matplotlib and created few plots with the score combined using pandas, but few of them I could not get it working on the HTML page.

There are few other techniques, I tried including matplotlib and vega lite. I needed the csv files to create a better vegalite plot.

I plotted using the vegalite in the previous assignment, so tried implementing using a different technique.