**Demonstrated on 18/03/2022 to Amit Parekh.**

The following report will provide further explanation and context on the complex, interactive visualisation solution developed based on my chosen dataset.

I have committed all my answers to a public GitHub repository which can be accessed here: [*https://github.com/JoshYang1/F21DV-Data-Visualisation-and-Analytics*](https://github.com/JoshYang1/F21DV-Data-Visualisation-and-Analytics)

My chosen dataset is Fantasy Premier League Football Data which I had found here: [*https://medium.com/@wafirmanakad/access-fantasy-premier-league-data-20-21-on-google-sheets-ee2cefce07cd*](https://medium.com/@wafirmanakad/access-fantasy-premier-league-data-20-21-on-google-sheets-ee2cefce07cd)

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Chart, scatter chart

Description automatically generated

Chart, bubble chart

Description automatically generated

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1. **Logo**

Logo is a SVG and has been inserted into the HTML

1. **Scatter Graph**

The scatter when loaded shows data points from the ‘Data’ tab of the spreadsheet.

A legend provides the user with information on what the colours represent. The colours are based on the player’s position.

A user can change the X and Y axis to the below options:

                <select id="yAxisDropdown" onchange= "setYAxis(this.value)">

                    <option selected disabled>--Y Axis--</option>

                    <option value="Cost">Cost</option>

                    <option value="Form">Form</option>

                    <option value="Selection">Selection (%)</option>

                    <option value="Goals">Goals</option>

                    <option value="Assists">Assists</option>

                    <option value="Clean Sheets">Clean Sheets</option>

                    <option value="GW Points">GW Points</option>

                    <option value="Total Points">Total Points</option>

                    <option value="Points per Game">Points Per Game</option>

                    <option value="Yellow Cards">Yellow Cards</option>

                    <option value="Red Cards">Red Cards</option>

                    <option value="Saves">Saves</option>

The X, Y and data circles will transition to the requested selections once both axes have been chosen. The labels for the axes will also reflect the new selections.

// Function called when dropdown selection made

function setXAxis(selection){

    // Set global variable

    xData = selection;

    // If both axis selections have been made then change the data of the chart

    if (xData != undefined && yData !=undefined) {

        populateAxis();

    }

}

If you hover over a circle, a tooltip will appear and provide the exact figures based on the axes chosen as well as the player’s name.

If you click on a circle, it will begin to pulse repeatedly to provide user confirmation of selection and the Player Stats visual will appear with the selected player.

1. **Info Button**