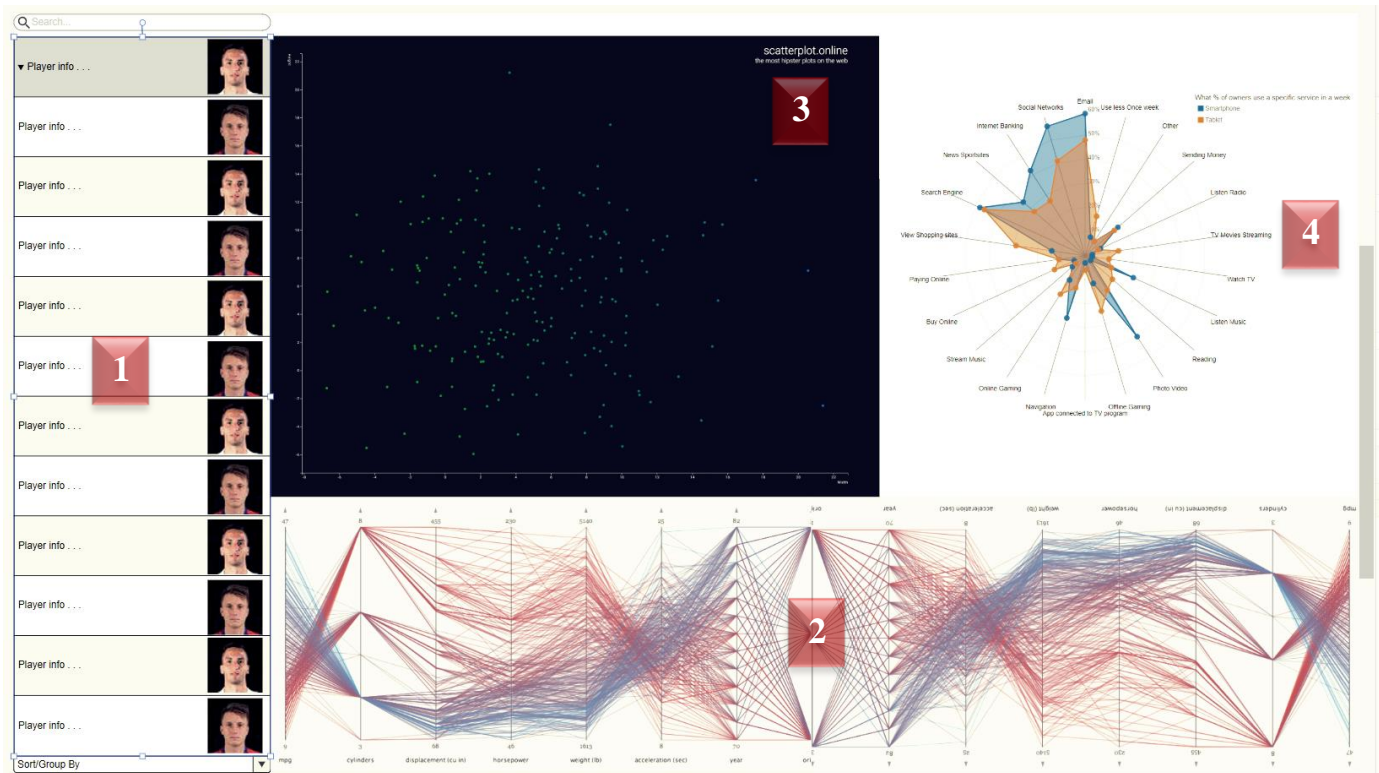# Final project draft

The main idea of the project is to create a Visual Analytics tool for the selection of *FIFA18* football players, based on the evaluation of their characteristics, making also a direct confront between the final most interesting selected players.

DATASET: *FIFA18 players* ([link](#))
   Content:

- Every player featuring in *FIFA 18*
- 75 attributes
- 17.981 instances (players);
- AS index = 75 * 17.981 = 1.348.575
- Player and Flag Images
- Playing Position Data
- Attributes based on actual data of the latest EA's *FIFA 18* game
- Attributes include on all player style statistics like *Dribbling, Aggression, GK Skills, Crossing, Curve, Dribbling, Finishing, Free kick accuracy, GK diving, GK handling, GK kicking, GK positioning, GK reflexes, Heading accuracy, Interceptions, Jumping, Long passing, Long shots, Marking, Penalties, Positioning, Reactions, Short passing, Shot power, Sliding tackle, Sprint speed, Stamina, Standing tackle, Strength, Vision* etc.
- Player personal data like *Nationality, Photo, Club, Age, Wage, Salary* etc.

VISUALIZATION (mockup):

1) Figure 1:

- Search players by *Name*;

- The list of the identified players, that show also some main information;

- The *Sort/Group By* of the players in the list, selecting the attribute (*numerical* or *categorical*) from the *combo box*.

- INTERACTIONS: click on the player's photo → pop-up with the *Radar/Spider chart* with some main characteristics (like in *Figure 4*);

2) Figure 2:

- Parallel coordinates for data filtering;

- INTERACTIONS: Select and highlight one or more lines (players) by selections on single axes of the parallel coordinates figure;

- NOTE 1: Some attribute axes will represent an aggregation of different specific attributes;

- NOTE 2: The selected players will be shown on the scatterplot and in the list too. (⇔ relationship between the elements on the scatterplot, on the list and on the parallel coordinates figures);

3) Figure 3:

- Scatterplot: 3 attributes that can be selected (by the user) to be represented (*x* axis, *y* axis and ***color***);

- INTERACTIONS:

    1) Select and highlight a set of dots by selections on the single axes or using the mouse area selection;

    2) Click on a dot → highlight the player in the list and his line in the parallel coordinates figure;

- NOTE: The selected players will be shown on the scatterplot and in the list too. (⇔ relationship between the elements on the scatterplot, on the list and on the parallel coordinates figures);

4) Figure 4:

- Radar/Spider chart: display multivariate observations (*stars = players*) with a set of selected attributes (by the user from the *combo box* in the legend area);