**Deliverables**

The deliverables for this week’s Independent project include:

* + 1. Python Notebook
    2. Data Report (Google Docs Document)
    3. Github Repository
    4. JIRA Kanban Board

**Overview**

In this week's independent project, you will be working as a data scientist working for an electric car-sharing service company. You have been tasked to process stations data to understand electric car usage over time by solving for the following research question;

Research Question

* + - Identify the most popular hour of the day for picking up a shared electric car (Bluecar) in the city of Paris over the month of April 2018.

Bonus Questions (Optional)

* + - What is the most popular hour for returning cars?
    - What station is the most popular?
      * Overall?
      * At the most popular picking hour?
    - What postal code is the most popular for picking up Blue cars? Does the most popular station belong to that postal code?
      * Overall?
      * At the most popular picking hour?
    - Do the results change if you consider Utilib and Utilib 1.4 instead of Blue cars?

Your final deliverable will be a data report which will comprise the following sections;

* + 1. Business Understanding
    2. Data Understanding
    3. Data Preparation
    4. Analysis
    5. Recommendation
    6. Evaluation

To compute usage, we will need to understand that we have to join successive (in time) measures/counters for a given station, as the difference will tell whether a car was picked up, returned, or nothing happened.

The CRISP-DM methodology will guide you while working on the Data Report. Your Data Report will also need to have an objective account, with insights majorly coming from the dataset. However, you can refer to external information for supporting information.

You can use either SQL/Python for this project.