Ideate a use case

- info story, requirements, wireframes:

- who is the user of the information and why is it important to them (their goal or problem being solved with the information)

- The purpose and motivation of the information used is clear and understandable. （to provide a more ethical rating agency data and decrease the commercial bias in the ratings）

**Other:**

- No extra or unnecessary information is used that is not described by the information story.

Requiremnets:

- The requirements of the informations structure are sufficient to define what’s in scope and identify what is not in scope.

- All features of the structure and portability are captured in the requirements.

**Define the existing information structure by presenting them**

Assess existing information structure using the FAIR principles needed for information story and the three axes of data portability:

1. What are the three axes of data portability and the FAIR principles
2. How the existing information is structured
3. How do they conform to the above principles? evaluate the portability of the existing information

how portable it is for developers to analyze, which is the original use case,

but how hard it is for our target users, the recruiters, to understand and quickly derive insights from

how is the information accessed (API calls to github endpoint)

analyze the overall portability, quality, and performance of the existing information for the information story, what is good and bad

analyze how the current deficiencies can be improved (当前的*information structure有哪些deficiencies that不能够帮助recruiters find the right candidate by providing useful information on programming skills)*

what are the transformations needed to the existing information structure to achieve the above improvement, include the calculation and manipulation process

The fair principles involves xxx

To improve xx,

1) Three big axis of data portability:

-    Clear Meaning -- what is the (semantics) meaning? What is the value there? What is in the data? How to interpret the data?  
    -   Transparency  
    -   Interoperable  
    -   Usable   
-    Accessible -- what is way that we access it?  
-    Structure -- what is the format of data? Is it a JSON or XML structure?

\*Data can be portable but not findable

These three axis of data portability will help with the final projects, in which we want to improve the portability of a digital dataset.

Data and information portability can be assessed against three axes: clean meaning, accessibility, and structure.

**Analyze deficiencies and design improvements for your portable structure:** How you decided to improve the structure -- analyze the current stage against the ideal one

**Improve the existing information structure to enable your information story:**

What your new structure is

-- writing the code, making the changes, doing some api access, figure out how to access it, get license…

Portable information structure from transformed existing information  
The new information structure is different from the existing information in a substantial way, including at least 2 of the following:

information itself, the structure, the format, and the access methodology.

The new information structure clearly meets the requirements identified in the information story, and no additional changes are made that are not part of the requirements.

**-    Control for quality, performance and security of information system:**

How would quality be identified and addressed -- how to make sure the change lasts, what are the statistics of the data, how to make it durable and robust…

Document performance and quality of new portable information

The desired quality captured in the requirements and the final quality of the information is well documented. Any differences in quality are described along with a possible remediation plan.

The desired performance of the information system is clearly captured and the final performance is documented. Any differences in performance are addressed and a possible remediation plan is captured.

Functional information system to access new portable information

It is possible to access the information as described in the documentation.

The information provided is correct and complete as described in the information story.