**Project name:**

VenturesDB

* A data management system which stored startup company and investor’s information

**Teammate:**

Monica, Tony

**Project introduction**

Develop an API that contained startup and investor’s information and also can be imported for developer to get the data they want. Those information included startup company's financial status that investor can refer it to make the investment and estimate the further marketing trends.

If backend is develop as smooth, the project will be consider to develop the website part.

The project will advance to provide the latest marketing news for entrepreneurs and investor.

**Project specification**

Separate the project as 2 sections.

*Section 1 (Basic standard)*

1. Use web crawle to get data from website.
2. Embed the data into graph database
3. Develop an API for obtain the start-up company and investor’s information.

*Section 2 (Advanced)*

1. Develop a simple website for introduce the API (like ITjuzi)
2. Classify the News on the Internet and extract the related news.

**Project planning**

1. Information study and Final produce estimation
   1. Graph database
   2. Crawler
   3. Development framework
   4. Project management tools
2. Prepare develop environment
   1. Data extraction: Node.JS crawler
   2. Program develop environment:　 Windows 10
   3. Program testing environment:　 Linux (in VM or Docker toolbox)
   4. Back-end development:　 Express.JS
   5. Web server:　 Node.JS
   6. Graph database:　 Neo4j
   7. Coding standard
3. Define the data we need (for asking 太空創投) and design database schema
   1. consider the target user
   2. consider the startup and investor’s need
4. Use crawler for extract data:

Data resource: Crunchbase

jingdata (鯨准)

ITjuzi (IT桔子)

tianyancha (天眼查)

qichacha (企查查)

1. For advanced function:
   1. Study AngularJS
   2. Study the information of AI
   3. Technology:
      1. Python
      2. Google Colab
      3. Keras
      4. Tensorflow
2. Docmentation
   1. Use Swagger for generate API document