**Resources:**

**Data:**

type: texts on the website 🡪 excel (\*.xls and \*.xlsx) 🡪 data in the database 🡪 texts on the website. The data will be inputted by customers and in CNRDS.

1.Users enter the data on the web pages, we change it into excel with the technologies of Python and html, JavaScript.

2.We put the information in the excel into database with Python and pymsql, connecting to database.

3.The data in the database will be analyzed with algorithm. Also, we will divide the data into 6 major types with the operations of database(select)

Questions:

1. The changes of data may cause error (ex: Data in database maybe not null)

2. The security of server and database maybe a mystery.

3. The data may be wrong if they put the wrong formats. We should check the formats of information.

**Database:**

MYSQL, we will also use the database on the website CNRDS and local hosts.

**Expertise:**

Languages: MySQL, Python

These two languages will be used in changing data types and input data into database.

Knowledge: The financial knowledge and database, UML knowledge.

Using UML, we are trying to create a database with 6 types:

1. Profitable index:

2. Managing ability

3. Solvency index

4. Obeying the principles:

5. Others

6. General: This is the collections of all data

Using database technologies, we are creating a relational database.