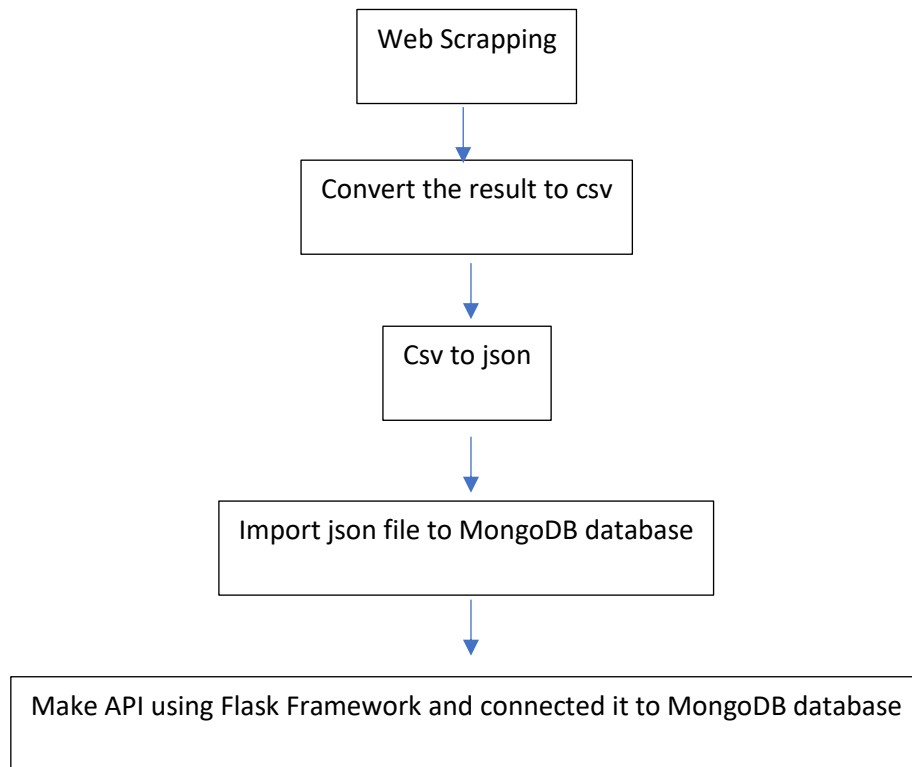


Question :

- 1 Which database engine you choose and why?
- 2 Which web framework you choose and why?
- 3 Briefly describe the architecture of your application?

Answer :

1. I am using MongoDB database because these several advantages such as :
 - MongoDB's flexible document data model makes working with data intuitive, whether you're building an app from scratch or updating an existing one.
 - MongoDB lets you precisely control where data is placed globally so you can easily ensure fast performance anywhere and compliance with regulations.
 - Complete deployment flexibility with seamless data migrations; build a ubiquitous data layer from mainframes to the public cloud and everywhere in between.
2. I am using flask API framework because these several advantages such as :
 - Speed.
 - Support for NoSQL.
 - Minimal complexity.
 - micro and a lightweight framework.
 - Absolute minimalism.
 - No ORM, easily connected with extensions.
 - Debugger embedded in browser.
 - Short and simple code among other Python web frameworks.
3. Here is the architecture that I create it :



Descriptions:

I am doing web scrapping using BeautifulSoup 4 because it's easy to install. I am collect the value of company information from <https://www.sgmaritime.com/company-listings>. After I collect the value of company information from web scrapping then I save it into .csv format after that convert it to .json format using online converter <https://www.csvjson.com/> and then import the .json file to MongoDB database using this syntax and type it in the command prompt : `mongoimport --db dbName --collection collectionName --file fileName.json -jsonArray`. Finally I am building a backend web API using Flask API framework to get the data from the MongoDB database and search company information.