DSCI 560: Group Laboratory 6

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Team Members

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Installation

Install the require libraries:

1. Install the **sqlalchemy** Library:

```
1 pip install sqlalchemy
```

2. Install the **OpenCV (cv2)** Library:

```
1 pip install opency-python
```

3. Install the **numpy** Library:

```
1 pip install numpy
```

4. Install the **requests** Library:

```
pip install requests
 4. Install the pytesseract Library:
 pip install requests
 5. Install the pytesseract Library:
 pip install pytesseract
 6. Install the tqdm Library:
   pip install tqdm
 7. Install the pdf2image Library:
pip install pdf2image
 8. Install the joblib Library:
 pip install joblib
 9. Install the BeautifulSoup (bs4) Library:
   pip install bs4
10. Install the lxml Library:
   pip install lxml
```

Execution

First, we execute database.py file to create the table in the SQL database

```
python database.py
python database.py
python database.py
please enter the username for the database:" [username] #Enter
   MySQL username.

"Please enter the password for the database:" [password] #Enter
   MySQL passowrd.

"Please enter the database name:" [database] #Enter the database
   name where you want to store the data.
```

Then, we execute **pdf_extraction.py** file to parse the information from pdf.

```
python pdf_extraction.py

"Please enter the username for the database:" [username] #Enter
MySQL username.

"Please enter the password for the database:" [password] #Enter
MySQL passowrd.

"Please enter the database name:" [database] #Enter the database
name where you want to store the data.
```

Lastly, we execute **web_scraper.py** file to parse the information from the web.

```
python web_scraper.py

"Please enter the username for the database:" [username] #Enter
   MySQL username.

"Please enter the password for the database:" [password] #Enter
   MySQL passowrd.

"Please enter the database name:" [database] #Enter the database
   name where you want to store the data.
```

Notes

We include many other programs in the script folder, but they are not necessarily all useful as we mainly use it as a function call reference if we need. You can freely check any other scripts for more information that you are interested in. However, our main scripts for this lab will be database.py', 'pdf_extraction.py', and 'web_scraper.py'.