JINGYI ZHANG DEMO REPORT (jyz0328@bu.edu u26578499)

Usage Demonstration

Step 0: download all code in main branch

Step 1 open [app.py]: input python3./app.py in terminal A to run the app (the back end).

```
PROBLEMS OUTPUT TERMINAL

> > TERMINAL

o zhangjingyi@zhangs-MacBook-Pro db % python3 ./app.py
 * Serving Flask app 'app'
 * Debug mode: on

WARNING: This is a development server. Do not use it in a p
 roduction deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000

Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 382-212-481
```

Step 2 client 1 usage: input python3./nowclient.py in terminal B to run the app for client 1 (the font end).

Then input 1 to login, then input username and password, then input 1 to be ready for uploading document.

```
o zhangjingyi@zhangs-MacBook-Pro db % python3 ./nowclient.py
What do you want to do? (1 for login, 2 for register, 3 for exit): 1
Please input username for login: OKOK
Please input password for login: okok
Logged in successfully
Choose an option: (1 for upload, 2 for logout): 1
Input the filename for upload: [
```

Step 3 client 2 usage: input **python3**./nowclient.py in terminal C to run the app for client 2 (the font end).

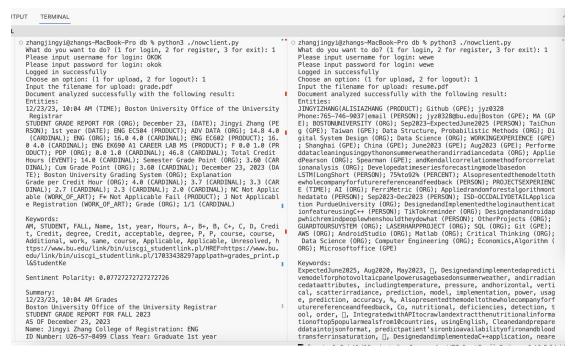
Then input 1 to login, then input username and password, then input 1 to be ready for uploading document, similar with client 1 does.

```
TPUT TERMINAL

o zhangjingyi@zhangs-MacBook-Pro db % python3 ./nowclient.py
What do you want to do? (1 for login, 2 for register, 3 for exit): 1
Please input username for login: OKOK
Please input password for login: okok
Logged in successfully
Choose an option: (1 for upload, 2 for logout): 1
Input the filename for upload: []

o zhangjingyi@zhangs-MacBook-Pro db % python3 ./nowclient.py
What do you want to do? (1 for login, 2 for register, 3 for exit): 1
Please input username for login: wewe
Logged in successfully
Choose an option: (1 for upload, 2 for logout): 1
Input the filename for upload: []
```

Step 4 upload document for both clients: I upload [grade.pdf] for client 1, and upload [resume.pdf] for client2, so we see both analyzing report can be formed. The analyzing report is long, you can see [result_of_grade.txt] and [result_of_example.txt] since these documents print out the analyzing result of these two documents. You can use other pdf and txt documents to test.



Step 5: input 2 and 3 to exit, or upload other document you want to test.

```
TERMINAL
Total Credit Hours 14.0
Semester Grade Point Index 3.60
Cum Grade Point Average 3.60 (As of December 23, 2023)
Boston University Grading System
Letter Honor Points
                                                                                                                                                                                                                   calculatingtheneareststatefromthegiveninputlocation.
BikeTrafficpythonPredictionTool PurdueUniversity,May2022-August2022

Designedanddevelopedapredictiontoolusingpythonwhichhelpsinforecastin gbiketrafficduringdifferent timeperiodsandrecommendedpositionstoinstallsensorsforrealtimesafetymon
  Explanation
                                                                                                                                                                                                                   itoring.. \hfill \square 
 Developed the prediction model using multivariate linear regression
 Grade per Credit Hour
A 4.0 Excellent
                                                                                                                                                                                                                   Developed the prediction model using multivariate linear regression model by analyzing relationships betweendailyweatherforecastdata(5attributesincludingtemperature,(low/hightemperatureand precipitation andbicycletrafficusingsklearn.

Implemented R square algorithm on calculating positions with predict ed maximum traffic flow for installing sensors.
 A- 3.7
B+ 3.3
B 3.0 Good
 B- 2.7
C+ 2.3
C 2.0 Satisfactory
                                                                                                                                                                                                                   ed maximum trails flow for insecting sensors.
ISD-OCCOALTYDETAILApplication PurdueUniversity, Jan2021-May2021
OCCDailyDetailisanapdesignedforISD(IndianaschoolfortheDeaf)forteach ersgivingparentsprompt feedbackforstudentsontheirengagementandactivitiesatschool.
Enhancedtheiosfrontendfeaturesonformatting, displayingandaestheticsin cludingusingCandswfit.
DesignedandImplementedtheloginauthenticationfeatureusingC++.
Implementedtheapplocalizationfeaturewhichtranslatestheapplicationbet weenfnulishandSpanishusing
C 2.W Satisfactory
C - 1.7
D 1.0 Low Pass
F 0.0 Fail; No Credit
AU Not Applicable Audit; No Credit Earned
CR Not Applicable Credit; Acceptable for degree
NC Not Applicable No Credit; Not acceptable for degree
H Not Applicable Honors
P Not Applicable Honors
P Not Applicable Pass with Credit
P* Not Applicable Pass, P/F course
F* Not Applicable Fail, P/F course
I Not Applicable Incomplete; Additional work required
J Not Applicable Registration in the same or continuing course required
                                                                                                                                                                                                                           enEnglishandSpanishusing
                                                                                                                                                                                                                    C++and java.
TikTokreminder FengChiaUniversitySep2019-Dec2019
                                                                                                                                                                                                                   Designedanandroidappwhichremindpeoplewhenshouldtheydowhat.
OtherProjects:Beautiful"handwriting"machine,GUARDTOURSUYSTEM,LASERHARP
uired
Whot Applicable Withdrew
MG Not Applicable Missing Grade; Grade not assigned
X Not Applicable Unresolved
https://www.bu.edu/link/bin/uiscgi_studentlink.pl/HREF=https://www.bu.edu/link/bin/uiscgi_studentlink.pl/1703343829?applpath=grades_
print.pl&StudentKem_1/1.
                                                                                                                                                                                                                    SKILLS
                                                                                                                                                                                                                     Languages/Tools: C/C+,Java,Python,SQL,Git,AWS,AndroidStudio,Matlab,PCB
                                                                                                                                                                                                                   design, webdesign
Other: Machine learning, Critical Thinking, Data Science, Data visual ization, Computer Engineering, System design, Economics, Algorithm, dataanalysis, Microsoftoffice, statistics, computerscience.
Choose an option: (1 for upload, 2 for logout): 2 Logging out successfully... zhangjingyi@zhangs-MacBook-Pro db % []
                                                                                                                                                                                                                   Choose an option: (1 for upload, 2 for logout): 2
Logging out successfully...
What do you want to do? (1 for login, 2 for register, 3 for exit): 3
                                                                                                                                                                                                                   zhangjingyi@zhangs-MacBook-Pro db % []
                                                                                                                                                                                                                   ■ D Ln 2, Col 40 (22 selected) Spaces: 4 UTF-8 LF ( Python 3.10.5 64-bit Q
```

Test Part Demonstration

Step 0:download [tests] folder of this github

Step 1:open [test_upload] folder, then run [pytest test_upload.py] in terminal

Code related to this step are **test_upload.py**, **upload_separate.py** and **textanalyzer.py**, in upload_separate.py we separate upload function from previous auth code parts. Also for **upload_separate.py**:

```
if[python3 upload_separate.py]on terminal we can return 1
if[python3 upload_separate.py none.txt]on terminal we can return 2
if[python3 upload_separate.py sample.png]on terminal we can return 3
if[python3 upload_separate.py grade.pdf]on terminal we can return 4
```

Then we build unit test based on upload_separate.py and get the demo figure.

Step 2:open [test_textanalyzer] folder, then run [pytest test_textanalyzer.py] in terminal

Code related to this step are **test_textanalyzer.py** and **textanalyzer_separate.py**, in textanalyzer_separate.py we separate textanalyzer function from previous auth and upload code parts. Also for **textanalyzer_separate.py**:

if[python3 textanalyzer separate.py]on terminal we can return 1

```
if[python3 textanalyzer_separate.py none.txt]on terminal we can return
2
if[python3 textanalyzer_separate.py grade.pdf]on terminal we can return
3
if[python3 textanalyzer_separate.py test.txt]on terminal we can return
4
```

Then we build unit test based on textanalyzer_seperate.py and get the demo figure.