SPLASH BLOG

Movie lovers' community

Presented by Group 2 Splash

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INTRO (Problem/Aim)

What we try to build is a Django website which has three features:

1.It should have a blog feature with an admin interface based on Django framework

2.The website should implement translation function

3.We also try to build an interface to show our learning results of data science, data visualization, and machine learning.

Requirement

python >= 2.5

pip >= 0.8

Django >= 3.2 (tested with Django 1.6 and Django 1.7)

pip install squarify

pip install googletrans==4.0.0-rc1

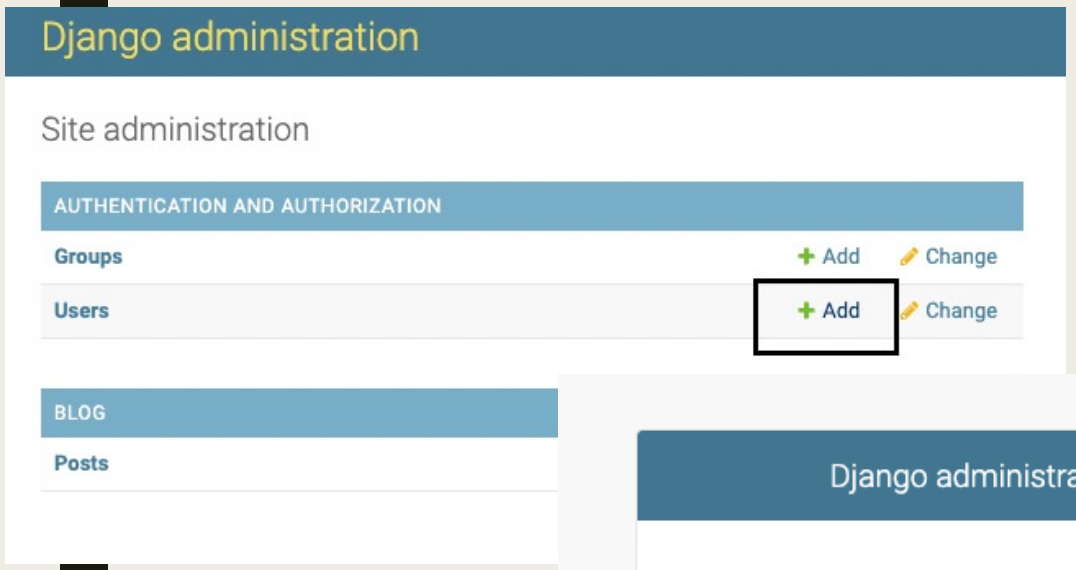
p.s. The packages that needs to be imported to implement data science, data visualization, and machine learning has been presented in the source code (Data Analyse Sourse Code-Splash.ipynb)

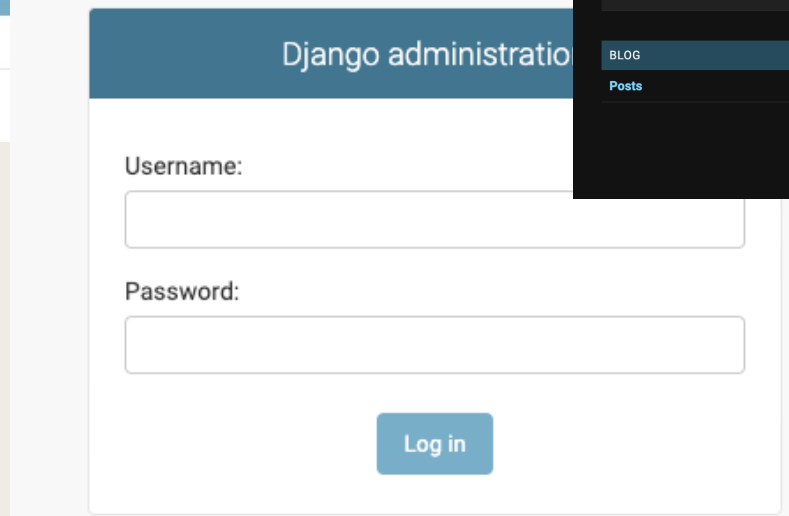
Based on the requirements above, open the whole folder in VScode or PyCharm, our project can be run by inputting "python manage.py runserver" in terminal.

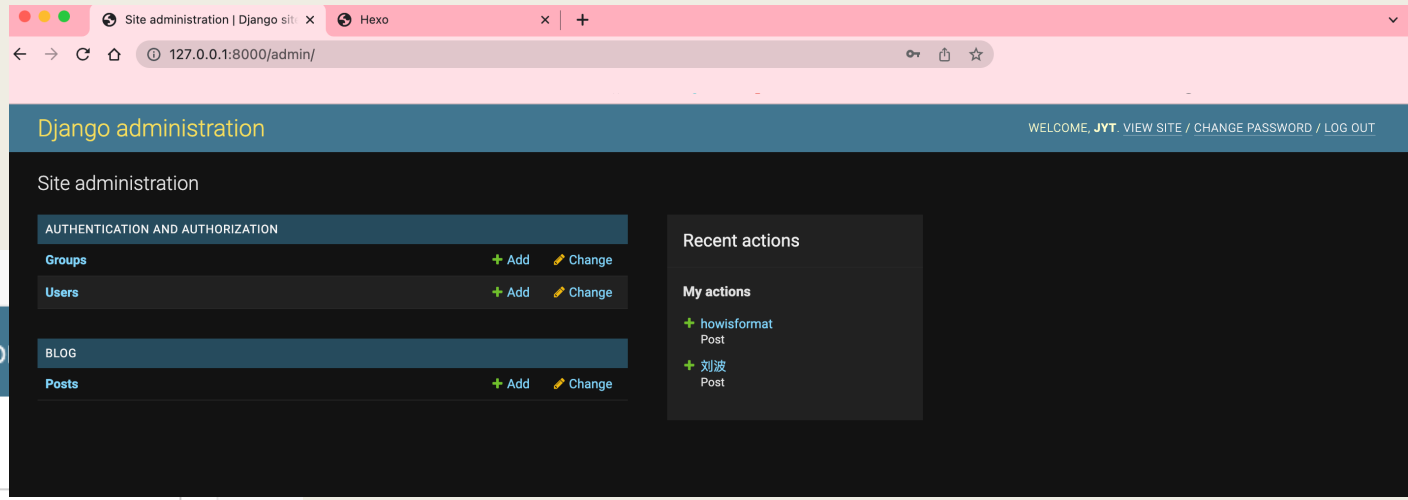
This folder also includes two ipynb files which can be run by evoking jupyter notebook.

Example for background test super user:
Username: jyt
Password: jyt199969

Function Display



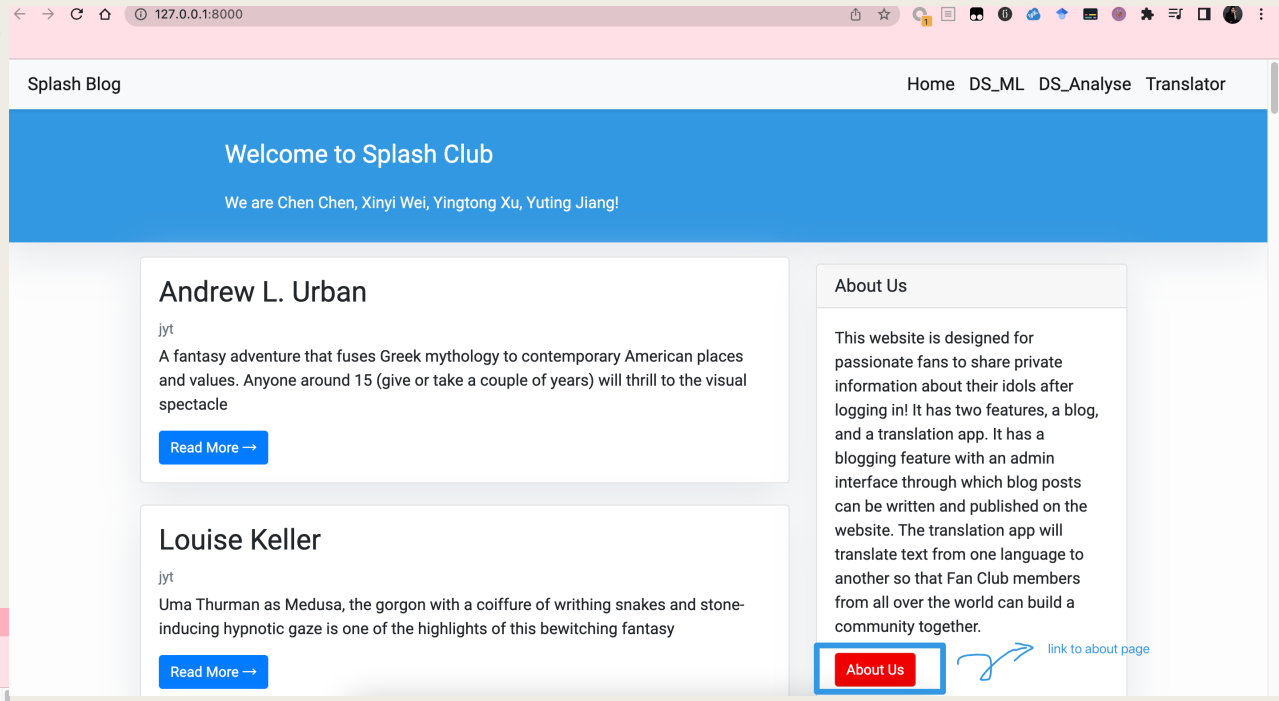


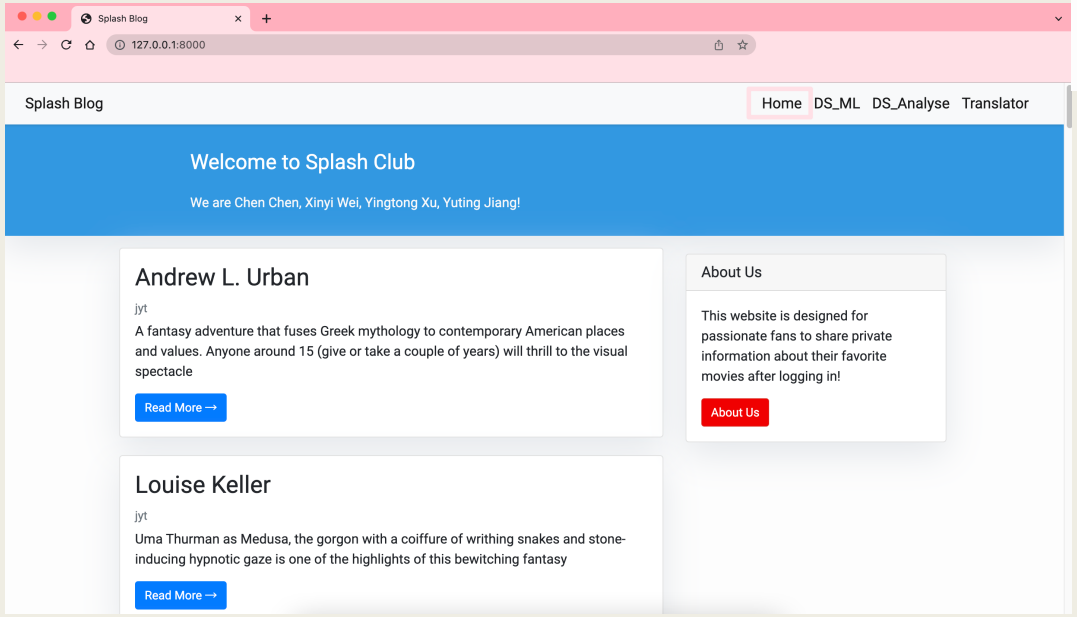


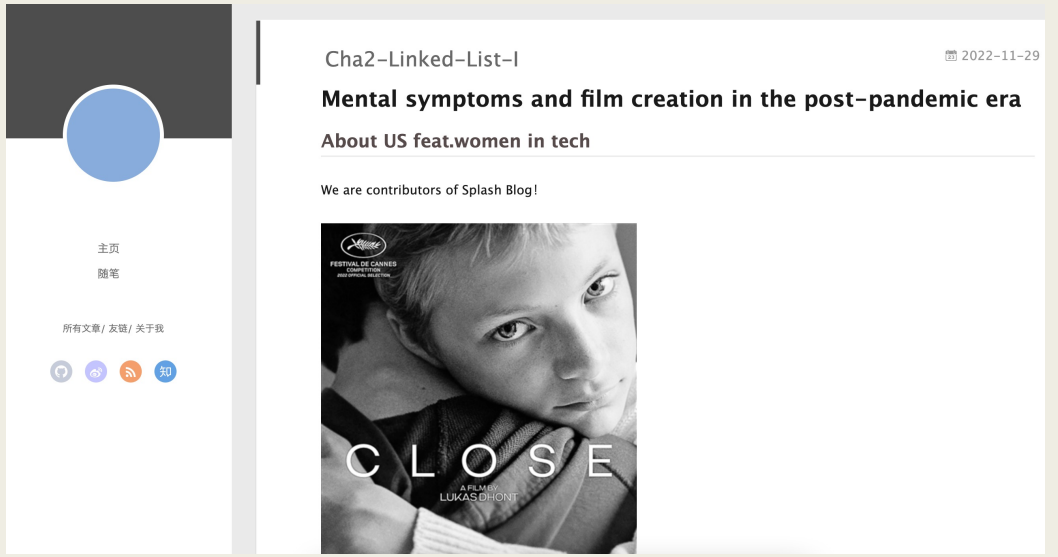
1. creat new user
2. user log in & out
3. user profile page
4. write & save & publish & edit blog-posts

Function Display

1.visit blog homepage
2.visit about page:
embed a personal blog
which was implemented
through HEXO framework







Function Display

Splash Blog

127.0.0.1:8000/ds//Analyse

Splash Blog Home DS_ML DS_Analyse Translator

```
In [21]: #Import all necessary packages

import pandas as pd
from pandas.api.types import is_string_dtype,is_numeric_dtype
from sklearn import preprocessing
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import confusion_matrix,accuracy_score,matthews_corrcoef,f1_score
# from sklearn.externals import pickle,json
import pickle,json
from matplotlib import pyplot as plt
import seaborn as sns
import joblib
import numpy as np
import pandas as pd
from matplotlib import pyplot as plt
import matplotlib.animation as  animation
import imageio
import os
# import cv2
from PIL import Image
import squarify
%matplotlib inline

In [22]: #Check the path to the directory where you are currently in
%pwd

Out[22]: '/Users/melody/Desktop/repos/5002/project'

In [23]: my_path = '/Users/melody/Desktop/repos/5002/project'

In [24]: !ls

5002project1104                    knn_model
5002project1104的副本              rotten_tomatoes_movies.csv
Data Analyse Sourse Code-Splash.ipynb ~$Splash.pptx
Splash.pptx

In [25]: my_df = pd.read_csv(f'{my_path}/rotten_tomatoes_movies.csv',
                             low_memory = False)
print(my_df.shape)
my_df.head(3)
```

Splash Blog Hexo

127.0.0.1:8000/ds//ML

```
Out[1083]: {1, 2}

In [108…  set(Y_pred)

Out[1084]: {1, 2}

In [108…  # Plot confusion matrix
from sklearn.metrics import confusion_matrix

my_knn_cmatrix = confusion_matrix(Y_valid,Y_pred)

my_knn_df = pd.DataFrame(my_knn_cmatrix)
plt.figure(figsize = (8,8))
sns.heatmap(my_knn_df, xticklabels = ["Spilled","Upright"],
            yticklabels = ["Spilled","Upright"],annot = True)

Out[1085]: <AxesSubplot:>
```

visit data_scienc(DS & ML) page:

1.Analyze the number of films released each year, calculate each movie type's proportion. Visualize the conclusion.

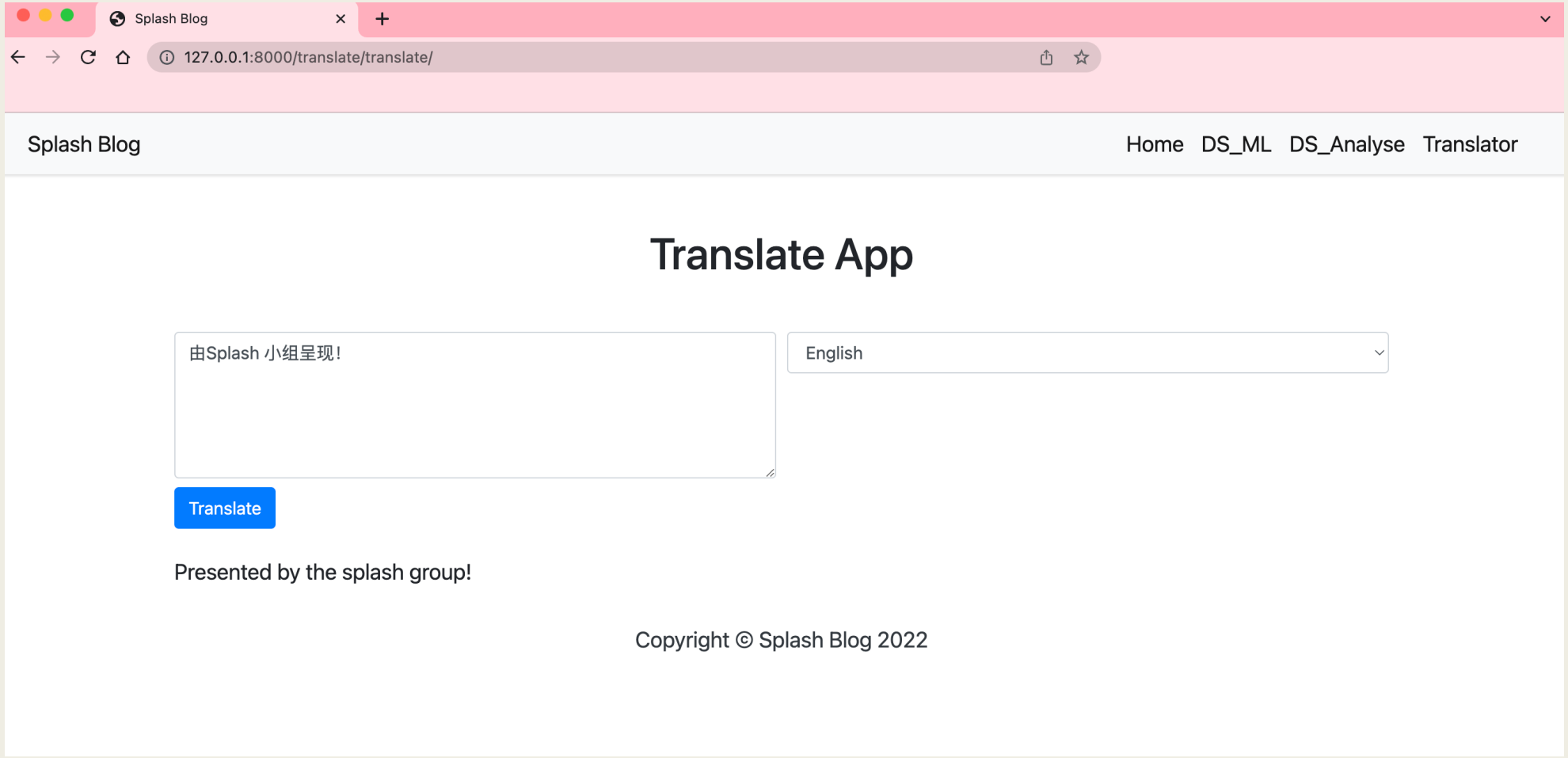
2. Analyze the movie comments' emotional tendency based on NLTK and VADER.

3.Using audience count and movie runtime to predict the audience status (spilled or upright).

Function Display

Translator:

1. Translate text from one language to another
2. Choose the target language you want



THANK YOU!

All team members implement our own edition.
Help each other debug, code review, discuss, improve, share, prepare for the final presentation.

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