前后端分离开发指南 - 后端

为支持分离开发，需要修改的文件：

1. 将setting.py文件整个替换为：

```python
from pathlib import Path
import os

# Build paths inside the project like this: BASE_DIR / 'subdir'.
BASE_DIR = Path(__file__).resolve().parent.parent


# Quick-start development settings - unsuitable for production
# See https://docs.djangoproject.com/en/4.0/howto/deployment/checklist/

# SECURITY WARNING: keep the secret key used in production secret!
SECRET_KEY = 'django-insecure-)$9wefx1mr^libwcbu^#
(!751691$56yuv)h#%fu#amiutk^jo'

# SECURITY WARNING: don't run with debug turned on in production!
DEBUG = True

ALLOWED_HOSTS = ['*']

INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'Our_project',
    'corsheaders'
]

MIDDLEWARE = [
    'corsheaders.middleware.CorsMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
]

ROOT_URLCONF = 'SW_Project.urls'

TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
```

```python
        'DIRS': ['../frontend/dist'],
        'APP_DIRS': True,
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context_processors.messages',
            ],
        },
    },
]

WSGI_APPLICATION = 'SW_Project.wsgi.application'

DATABASES = {
    'default':{
        'ENGINE':'django.db.backends.mysql',
        'NAME':'SW_DB',
        'USER':'root',
        'PASSWORD':'Q@@pr294118',
        'HOST':'175.178.34.84',
        'PORT':'3306',
    }
}

AUTH_PASSWORD_VALIDATORS = [
    {
        'NAME':
'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
    },
    {
        'NAME':
'django.contrib.auth.password_validation.MinimumLengthValidator',
    },
    {
        'NAME':
'django.contrib.auth.password_validation.CommonPasswordValidator',
    },
    {
        'NAME':
'django.contrib.auth.password_validation.NumericPasswordValidator',
    },
]


LANGUAGE_CODE = 'en-us'

TIME_ZONE = 'UTC'

USE_I18N = True

USE_TZ = True

STATIC_URL = '/dist/'
# Add for vuejs
STATICFILES_DIRS = [
    os.path.join(BASE_DIR, "../frontend/dist/static"),
]
```

```
STATIC_ROOT = os.path.join(BASE_DIR, '../frontend/dist/')


DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'

CORS_ALLOW_CREDENTIALS = True
CORS_ORIGIN_ALLOW_ALL = True

CORS_ALLOW_METHODS = (
        'DELETE',
        'GET',
        'OPTIONS',
        'PATCH',
        'POST',
        'PUT',
        'VIEW',
)

CORS_ALLOW_HEADERS = (
        'XMLHttpRequest',
        'X_FILENAME',
        'accept-encoding',
        'authorization',
        'content-type',
        'dnt',
        'origin',
        'user-agent',
        'x-csrftoken',
        'x-requested-with',
        'Pragma',
)
```
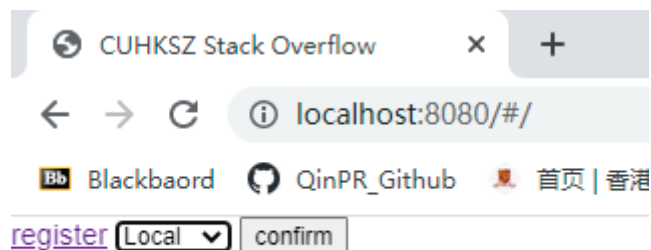
2. 如果是用谷歌浏览器下面报错了，那可能要解决下跨域访问的问题，按着这篇知乎来就好了：https://zhuanlan.zhihu.com/p/414533145

如何远程连接前端呢?

- 现在本地8000端口跑起来

```
python manage.py runserver
```

- 访问http://175.178.34.84/dist/，登陆的时候选Local，并点confirm：

如何将后端程序上传到服务器呢？

1. 连接到服务器：

```
ssh ubuntu@175.178.34.84
Q@@pr294118   //密码
```

2. 进入到项目文件夹：

```
cd /data/wwwroot/CSC4001_Project
```

3. 将原有的backend重命名为backend_<今天的日期>，并移入History文件夹中
4. 将新的backend放到CSC4001_Project文件夹下
5. 执行以下命令：

```
cd /data/wwwroot/CSC4001_Project
sudo killall -9 uwsgi
nohup uwsgi --ini CUHKSZ_STACK_OVERFLOW.ini &
```

- 接下来在http://175.178.34.84上可以部署的效果！

（感觉最好可以先在github的仓库里merge后上传服务器，这样可以先检验下merge冲突）