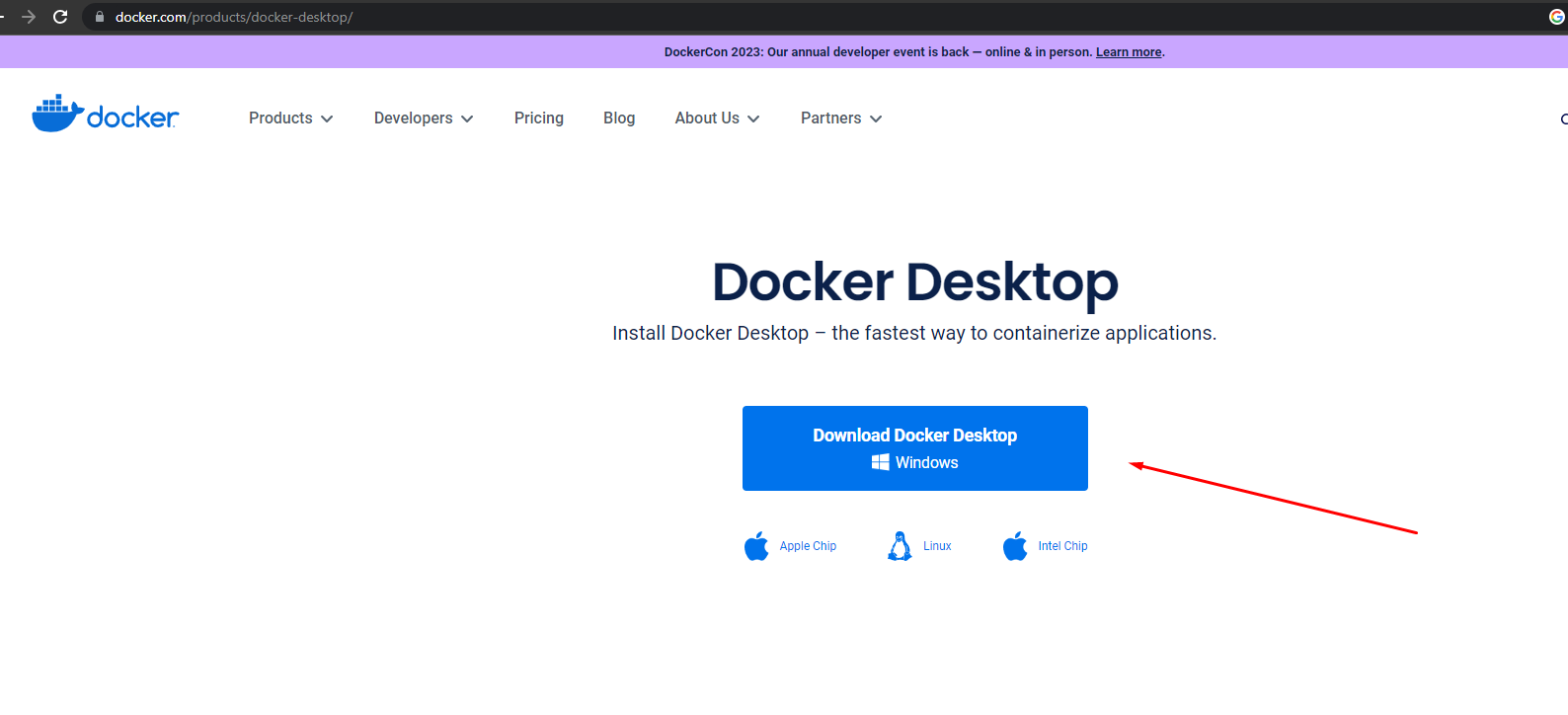
**Оптимизация Django. 1 - Django + Docker**

Docer ni o’rnatamiz.

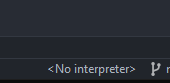
Brauzerga docer descktop deb yozamiz va



Shu sahifaga kirib docerni skachat qilamiz.

Docerni o’rnatib oldik

Endi pycharmga kirib, No interpretatorni tanlab qo’yamiz. Biz buni docerda ishlatamiz.

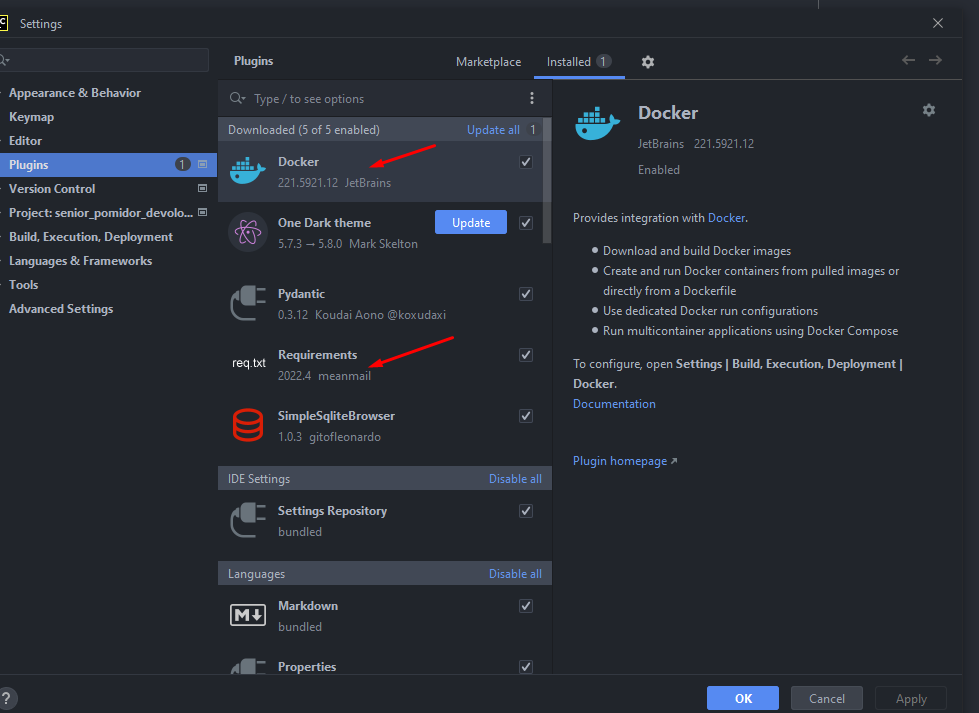


Endi requirements.txt fayl ochvolamiz va ichiga quyidagilarni yozamiz.

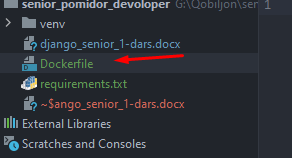
Django==3.2.16  
djangorestframework==3.14.0

Biz shu versiyalardan foydalanamiz.

Va plugins ga o’tib bu ikkita plaginni o’rnatamiz.



Endi Dockerfile qo’shamiz.



Dockerfile da biz loyixamizning asosiy image ni qilamiz. Image bu obraz, obraz bu .iso formatidagi faylga o’xshagan narsa bo’lsa kerak

Endi Dockerfile ni ichiga quyidagilarni yozamiz.

FROM python:3.9-alpine3.16  
  
COPY requirements.txt /temp/requirements.txt

Bu yerda alpine bu linux ni versiyasi buni menimcha docker hub dan ko’rishimiz mumkin.

Endi service nomli papka ochamiz va bu papkani Ichida bizni django loyixamiz joylashadi.

Dockerfile da yozganlarimiz

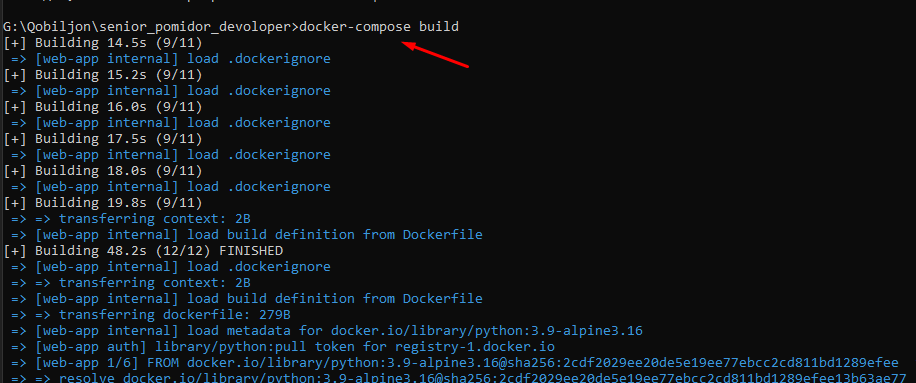
FROM python:3.9-alpine3.16  
  
COPY requirements.txt /temp/requirements.txt  
COPY service /service  
WORKDIR /service  
EXPOSE 8000  
  
RUN pip install -r /temp/requirements.txt  
RUN adduser --disabled-password service-user  
  
USER service-user

Bu yerda --disabled-password service-user ni vazifasi windows foydalanuvchisini hosil qilish. Va USER service-user deb user ni hosil qilamiz.

Endi docer obraz hosil qilishi uchun docker-compose.yml formatida fayl hosil qilamiz. Va bu faylga quyidagilarni yozamiz.

services:  
 web-app:  
 build:  
 context: .  
 ports:  
 - "8000:8000"  
 volumes:  
 - ./service:/service  
  
 command: >  
 sh -c "python manage.py runserver 0.0.0.0:8000"

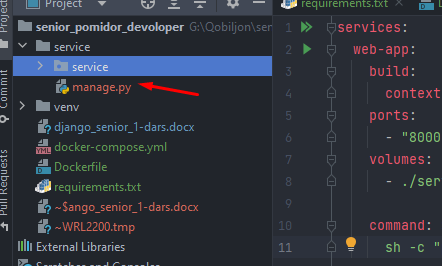
endi docker ga o’tib uni ishlatamiz. So’ng fayllarimiz joylashgan joyni cmd bilan ochvolamiz. So’ng docker-compose build deb yozamiz va bizga kerakli bo’lgan kutubxonalarni o’rnatishni boshledi



Endi loyixani ishlatish uchun docker-compose up deb yozamiz. Lekin bizda to’xtab qoladi. Sababi manage.py fayli yaratilmagan. Uni yasash uchun cmd ga yozamiz.

docker-compose run --rm web-app sh -c "django-admin startproject service ."

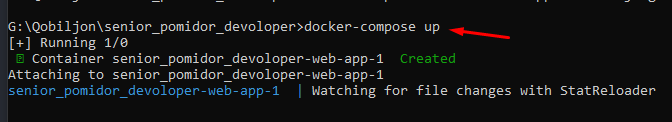
Endi pycharmga o’tib ko’radigan bo’lsak



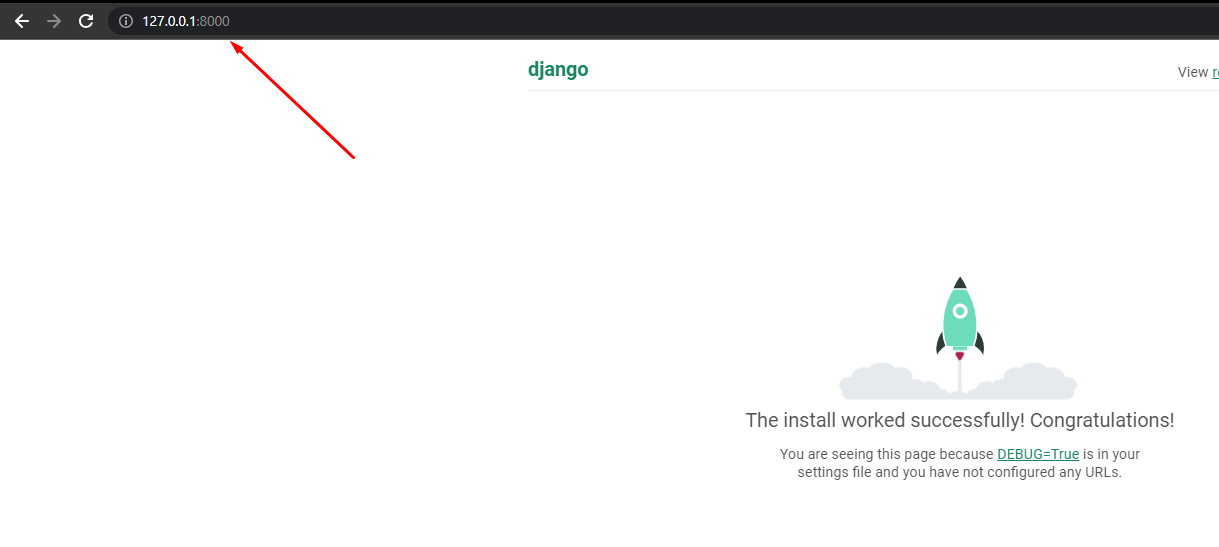
Mana loyixa yaratildi.

Endi bu loyixani ishga tushiramiz. Buning uchun terminalga yozamiz.

docker-compose up



Mana loyixa ishga tushdi dedi. Endi brauzerga o’tib tekshirib ko’ramiz.



Mana loyixa ishlamoqda.