Python Django Tutorial 2021

# Setup

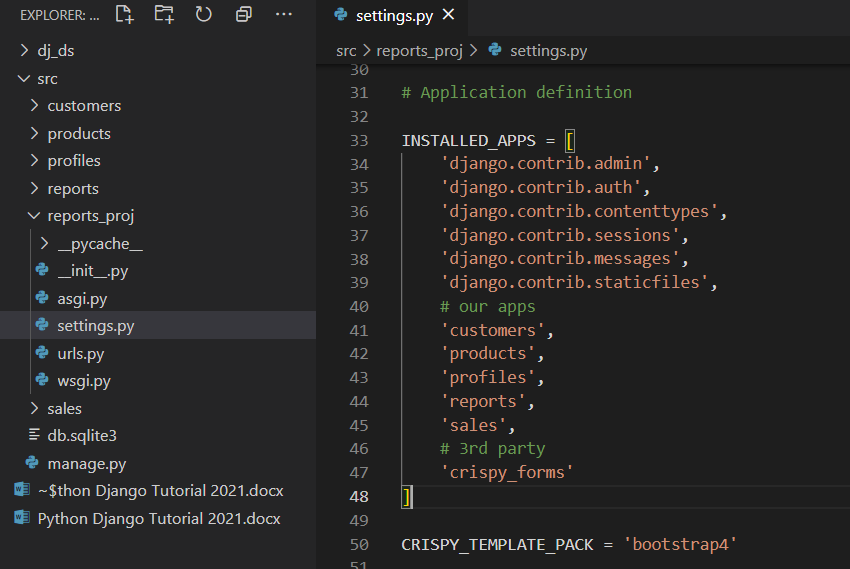
1. pip install virtualenv
2. virtualenv dj\_ds
3. source dj\_ds/bin/activate
4. pip install django
5. django-admin startproject reports\_proj
6. python manage.py migrate
7. python manage.py createsuperuser (dongpv/123456a@)
8. python manage.py startapp sales
9. python manage.py startapp reports
10. python manage.py startapp profiles
11. python manage.py startapp products
12. python manage.py startapp customers
13. python manage.py runserver

# Setup 2

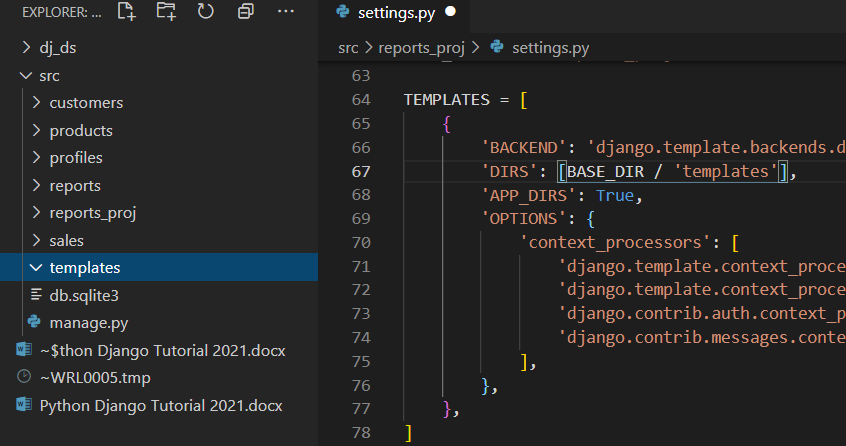
1. pip install pillow django-crispy-forms matplotlib seaborn pandas xhtml2pdf

# Setup 3

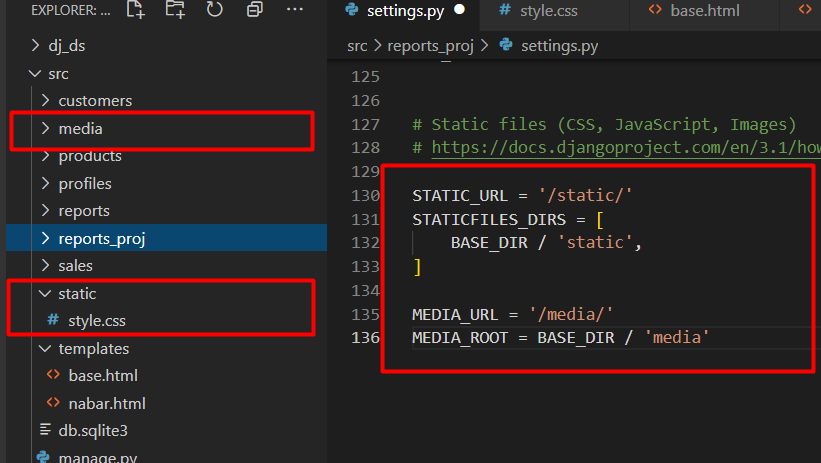
1. Setup apps



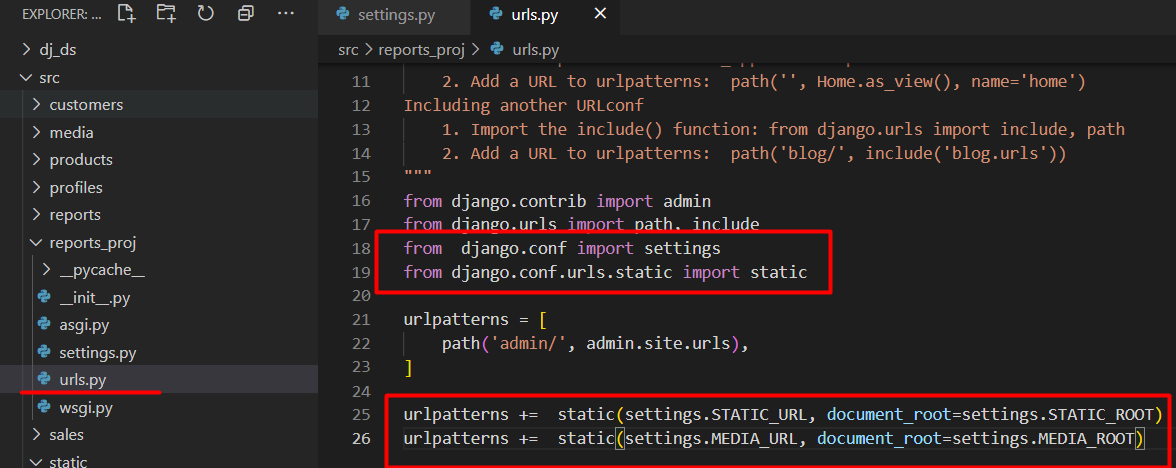
1. Add templates file



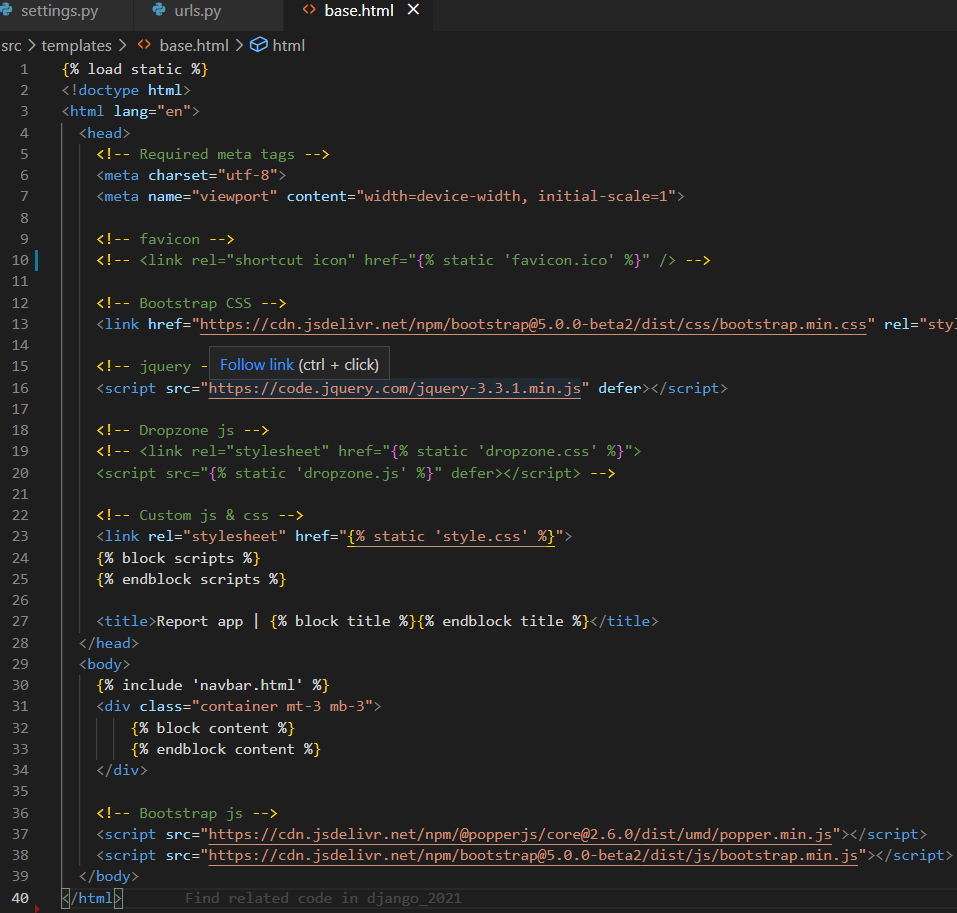
1. Add media and static files



1. Adding static\_url and media\_url to urls.py file

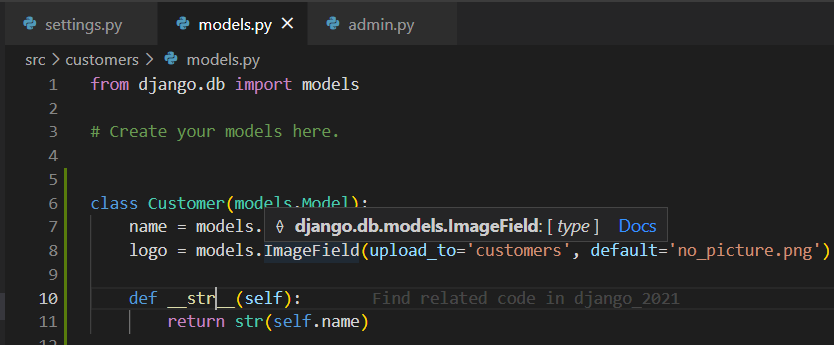


1. Add base.html code

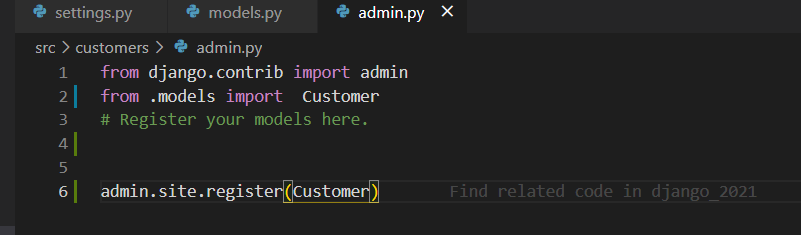


# Customer Model

1. Adding customer model



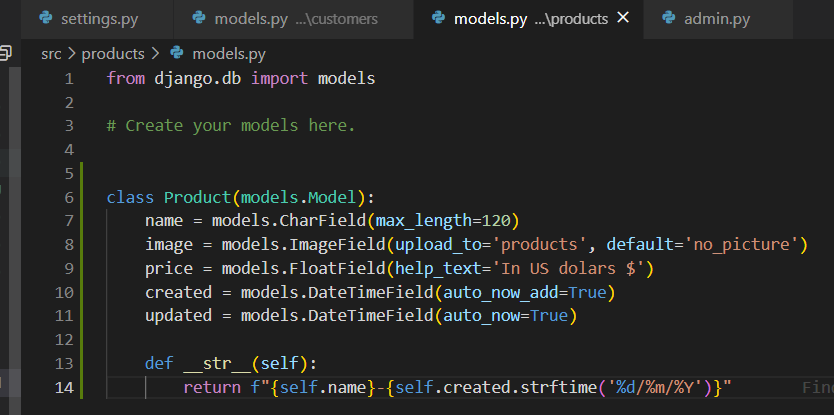
1. Register customer model



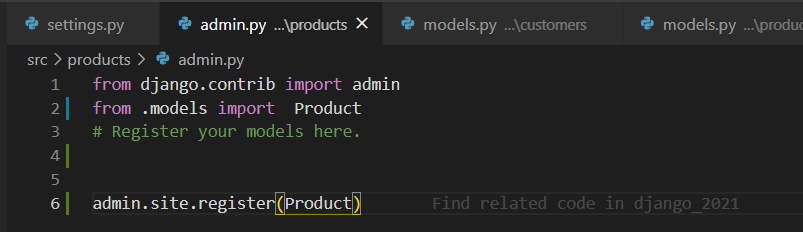
1. python manage.py makemigrations
2. python manage.py migrate

# Product Model

1. Adding product model



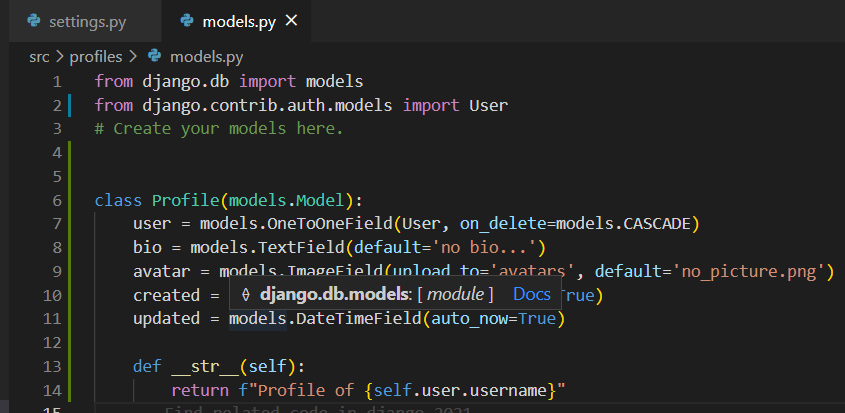
1. Register product model



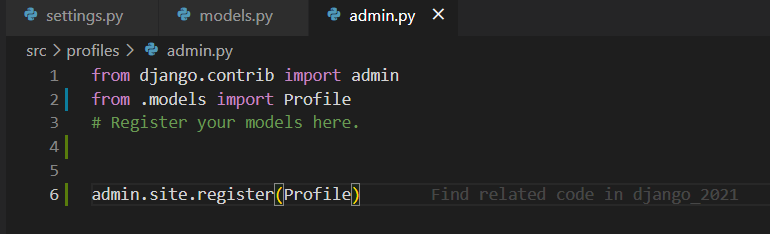
1. python manage.py makemigrations
2. python manage.py migrate

# Profile Model + POST\_SAVE Signal

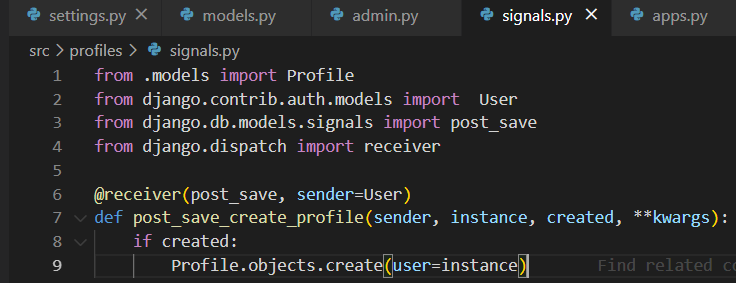
1. Adding profile model



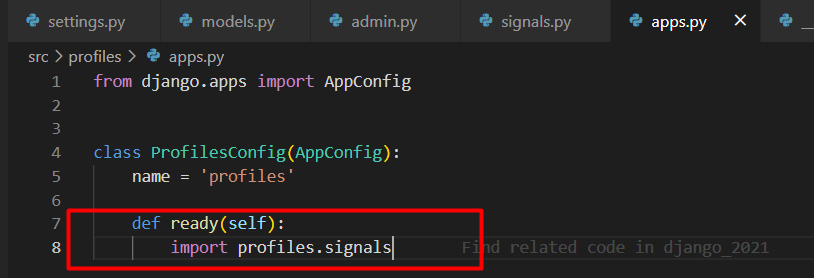
1. Register profile model



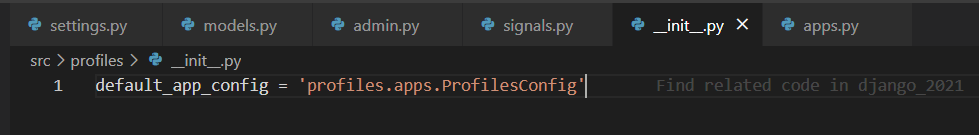
1. python manage.py makemigrations
2. python manage.py migrate
3. Add signals.py file



1. Import signals in apps.py



1. Add default\_app\_config to \_\_init\_\_py

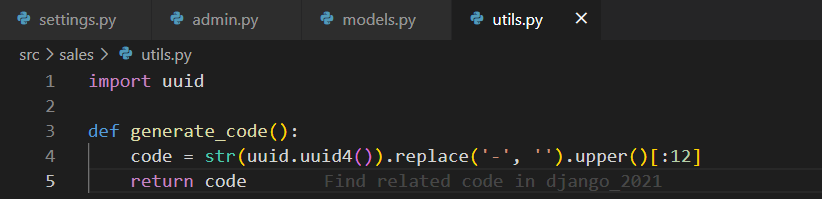


# Sale Model

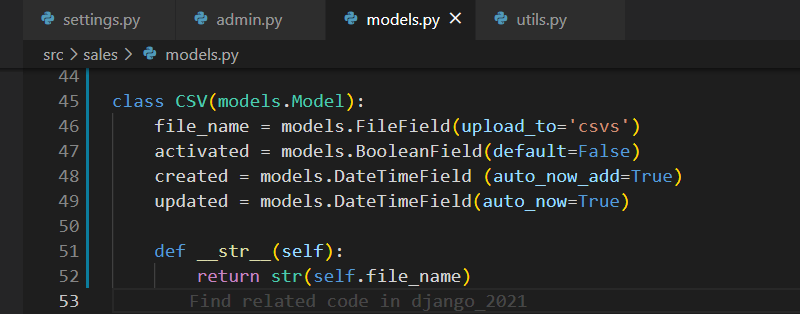
1. Adding positon, sale model



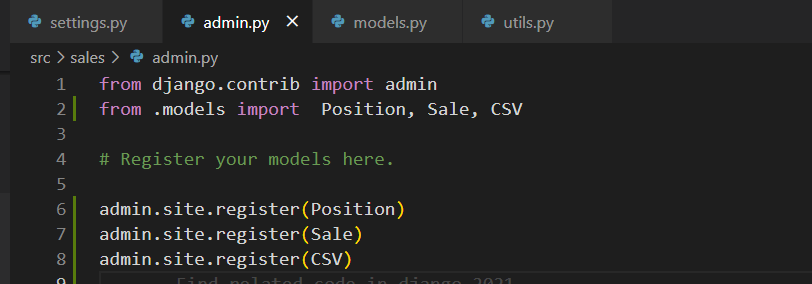
1. Add utils.py to generate transaction\_id in sale



1. Add csv model



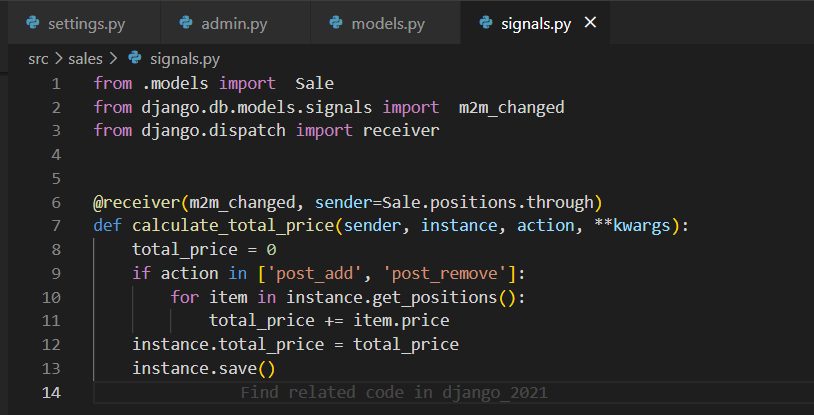
1. Register models



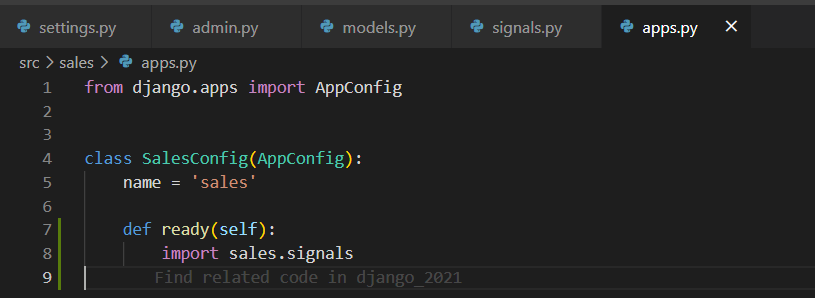
1. python manage.py makemigrations
2. python manage.py migrate

# m2m\_changed Signal

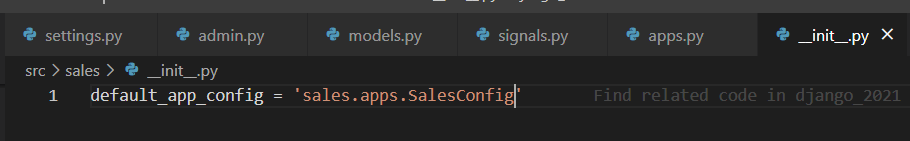
1. Add signals.py



1. Overwrite ready func

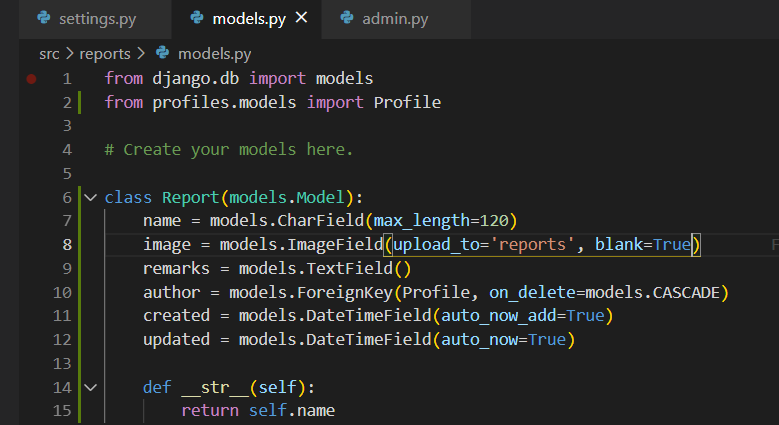


1. Add default\_app\_config

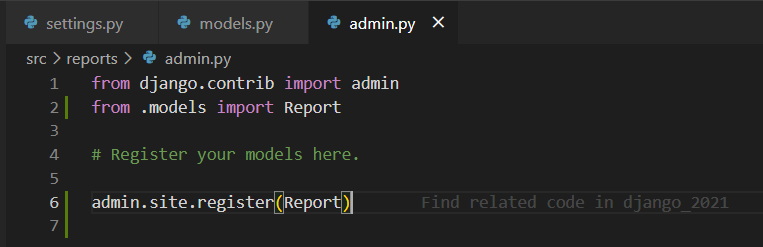


# Reports model

1. Add report model



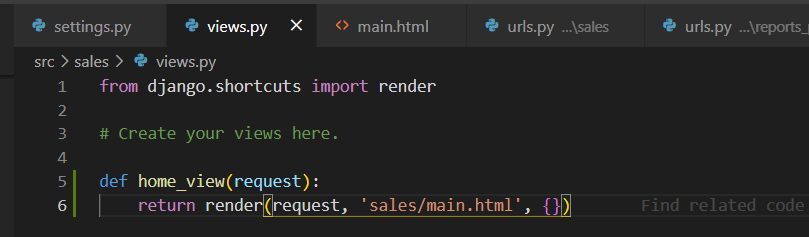
1. Register report model



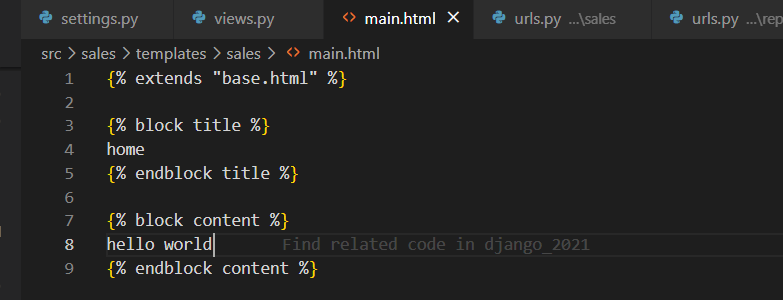
1. python manage.py makemigrations
2. python manage.py migrate

# First View and Template

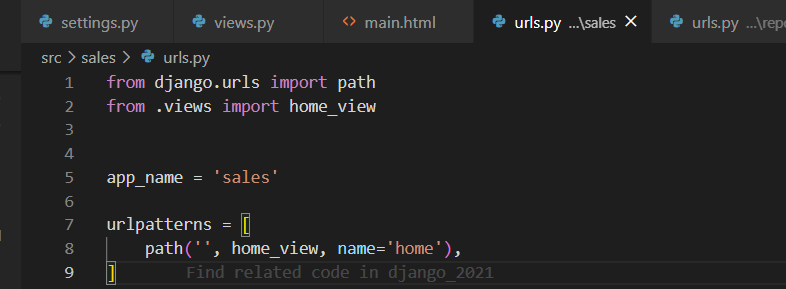
1. Add view to sales app



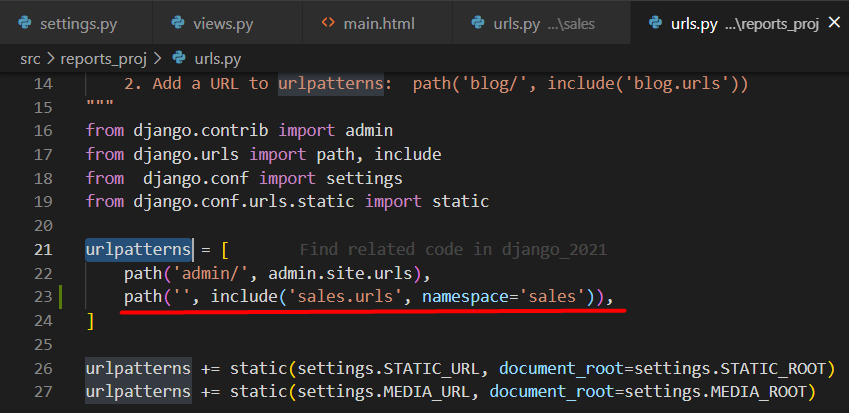
1. Add home.html template



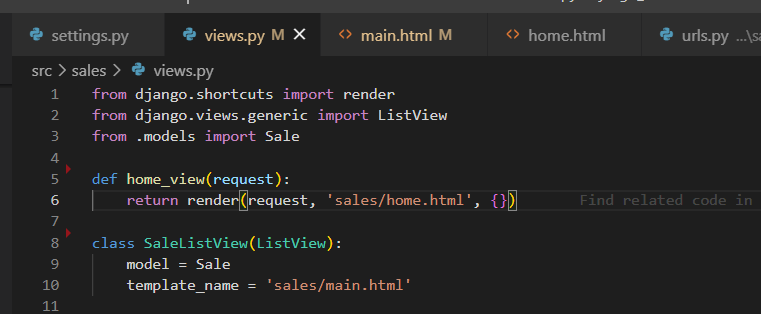
1. Add urls.py in sales app



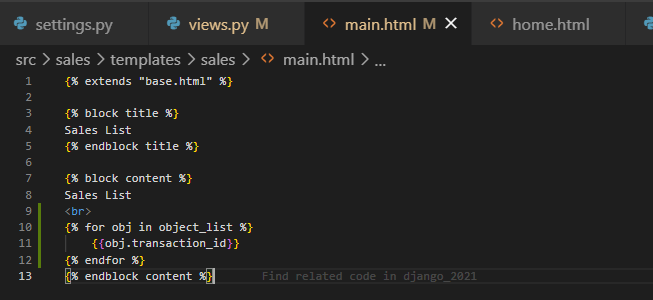
1. Include sales.urls im main urls.py



1. Add class ListView

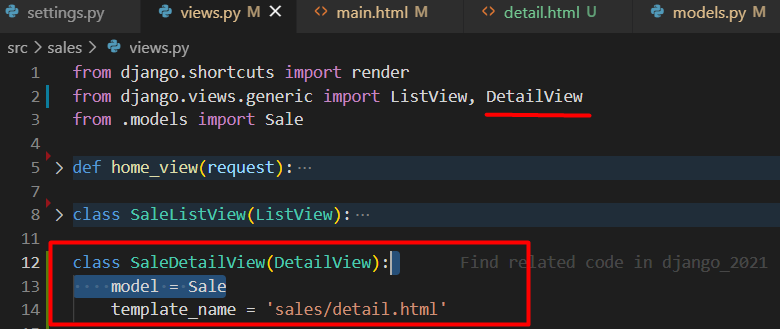


1. Add main.html

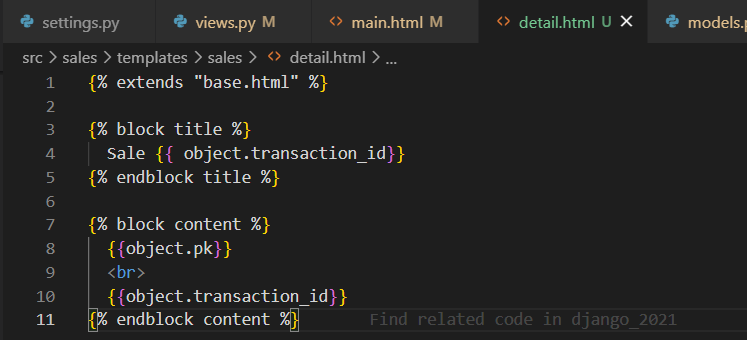


# Detail view

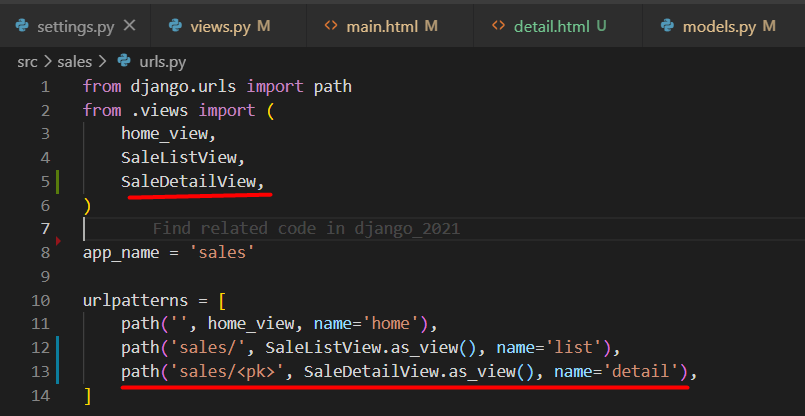
1. Add detailview



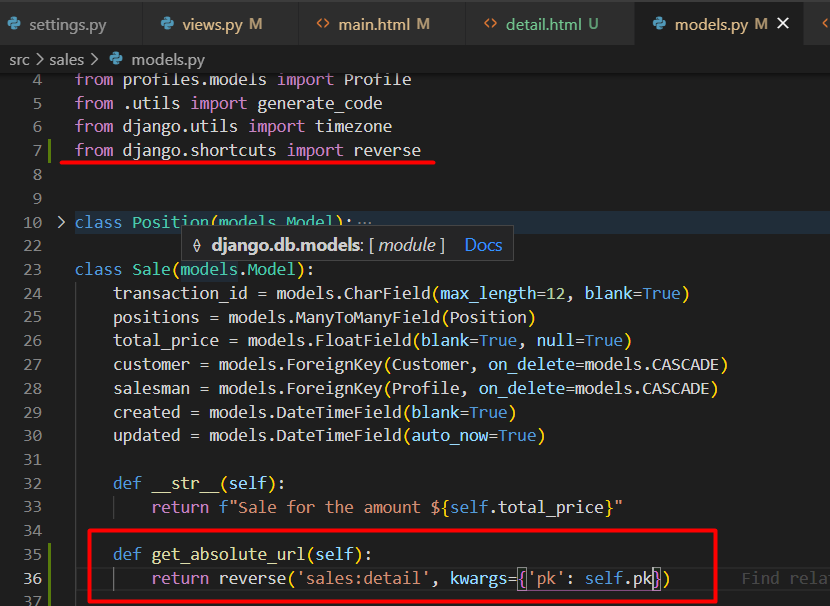
1. Add detail.html

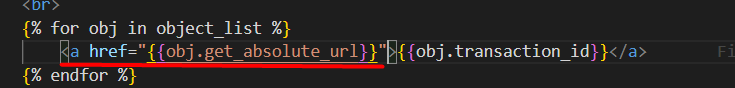


1. Add detail url



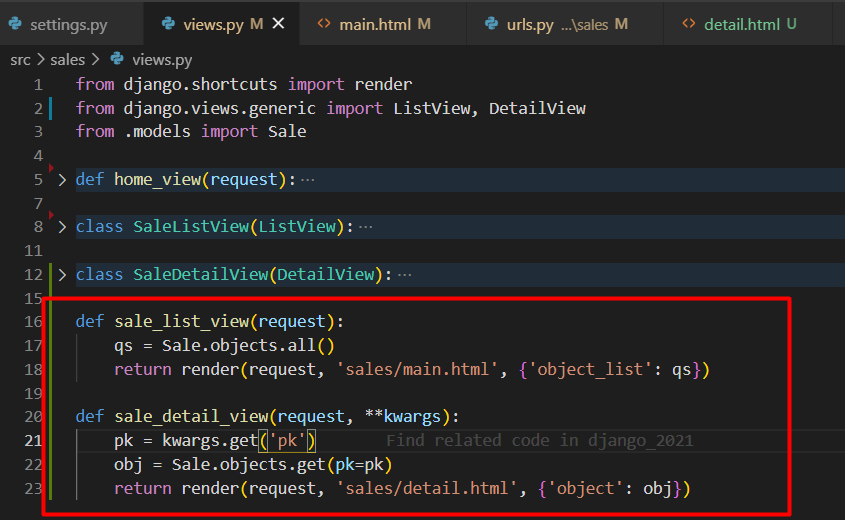
1. Add get\_absolute\_url func in sale model

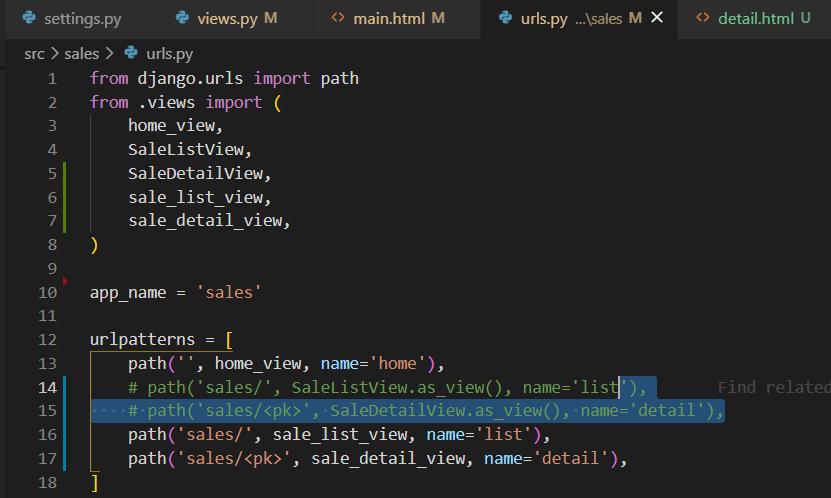




# Function base view

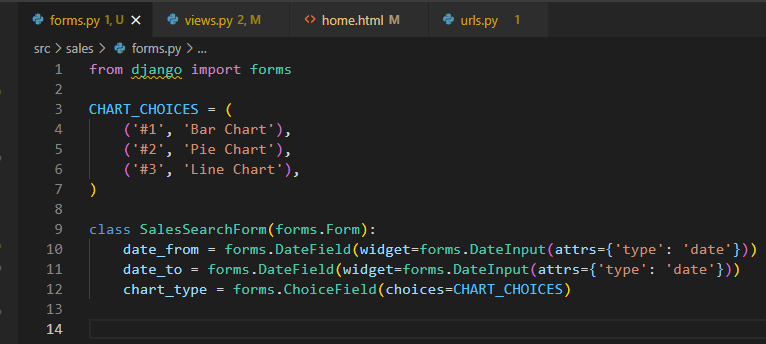
1. Sale list function base view and sale detail function base view



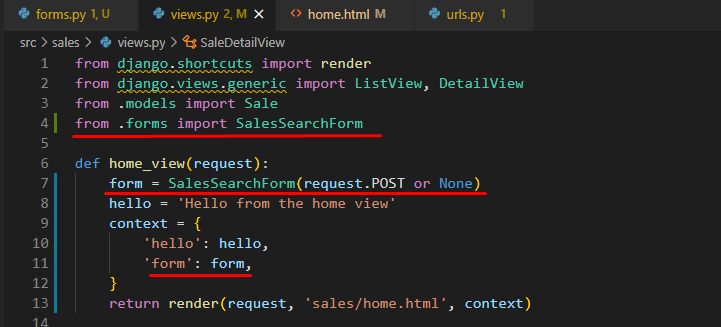


# Create search form

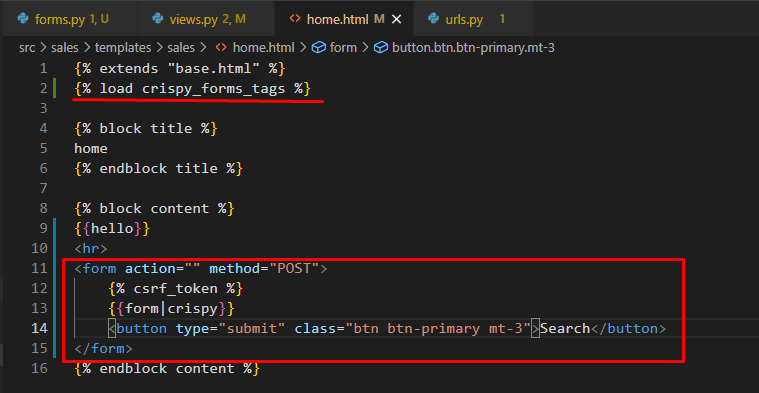
1. Add SalesSearchForm



1. Add SalesSearchForm to function base view

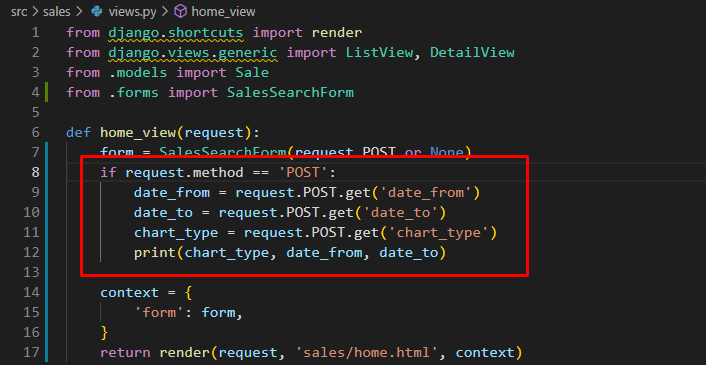


1. Add SalesSearchForm to home view



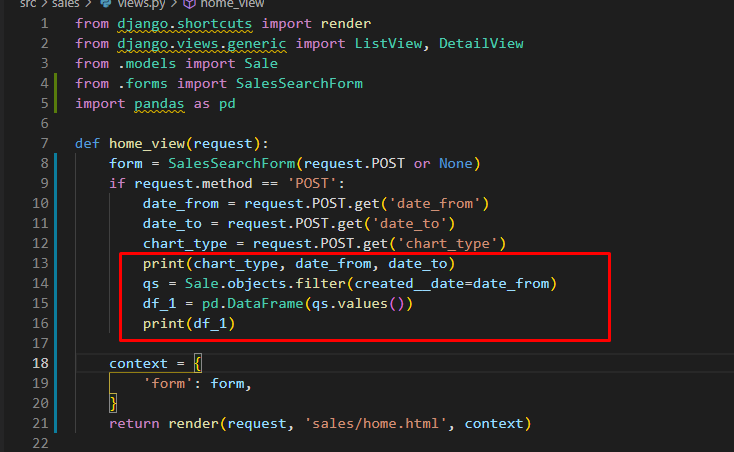
# Get data from search form

1. Get info from search form



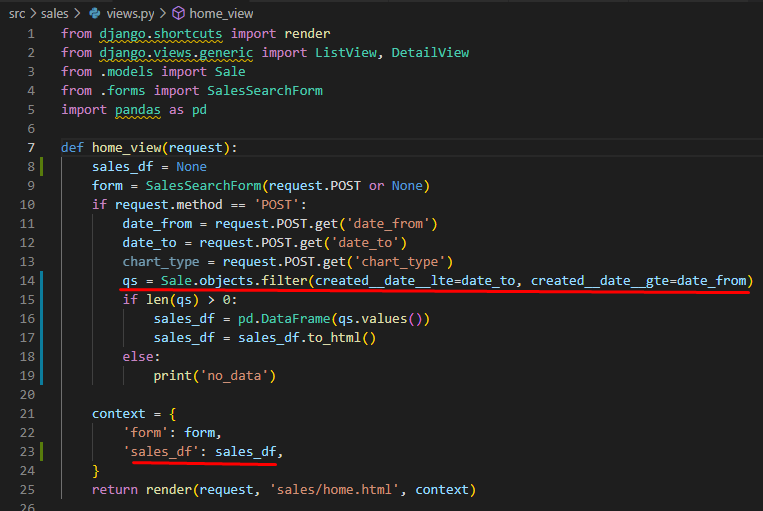
# First query and dataframes

1. Query set by date\_from

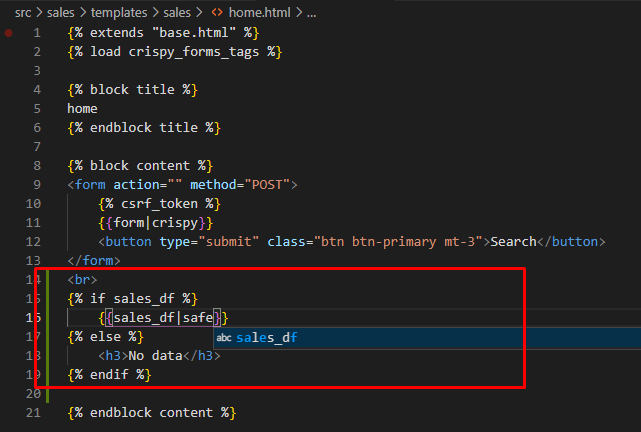


# Display dataframes in the template

1. Query set by date\_from and date\_to

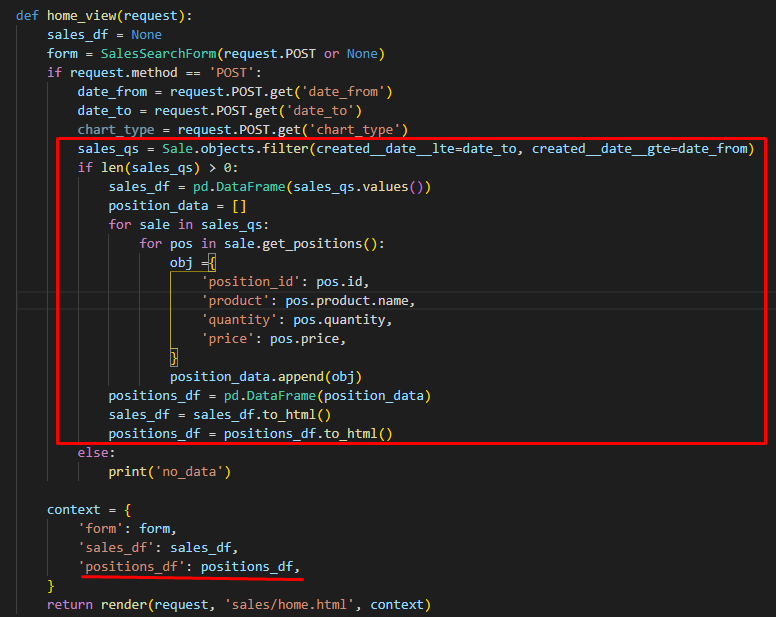


1. Display data frames in to view

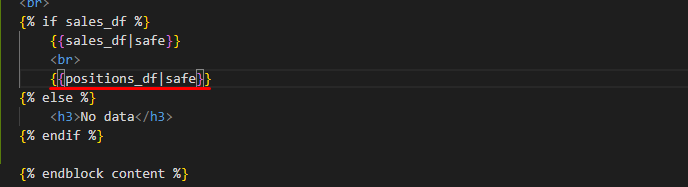


# Dataframe for the positions

1. Get positions data

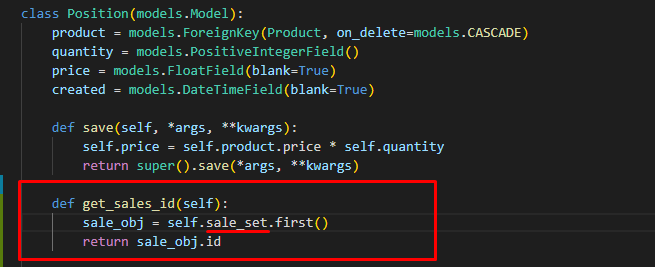


1. Display positions data in view

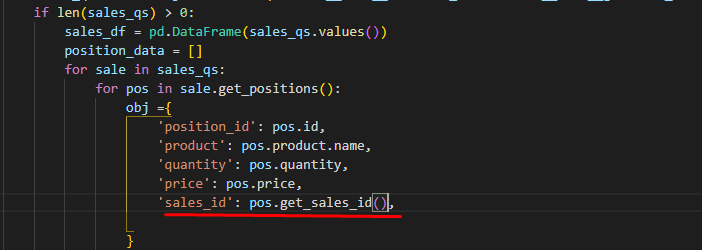


# Get sale id for position object

1. Get sale\_id

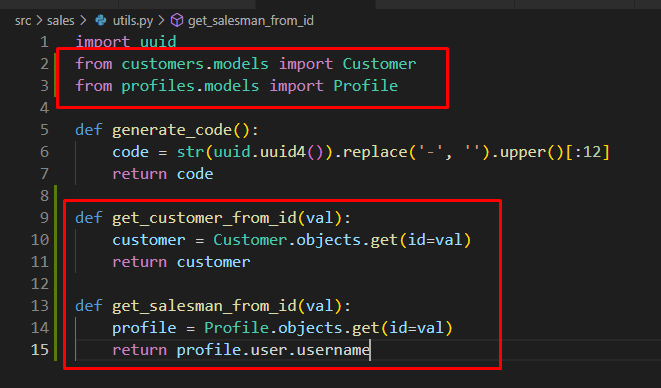


1. Get sale\_id in positions\_df



# The apply function

1. Add function get customer\_name and user\_name



1. Displace name instead of id

