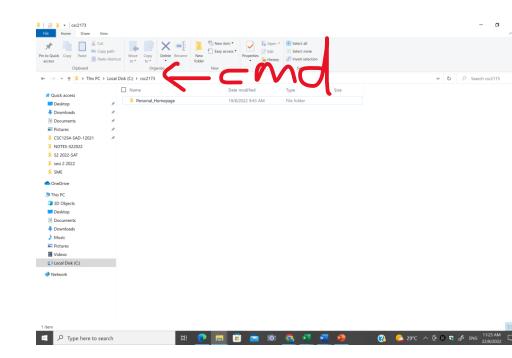


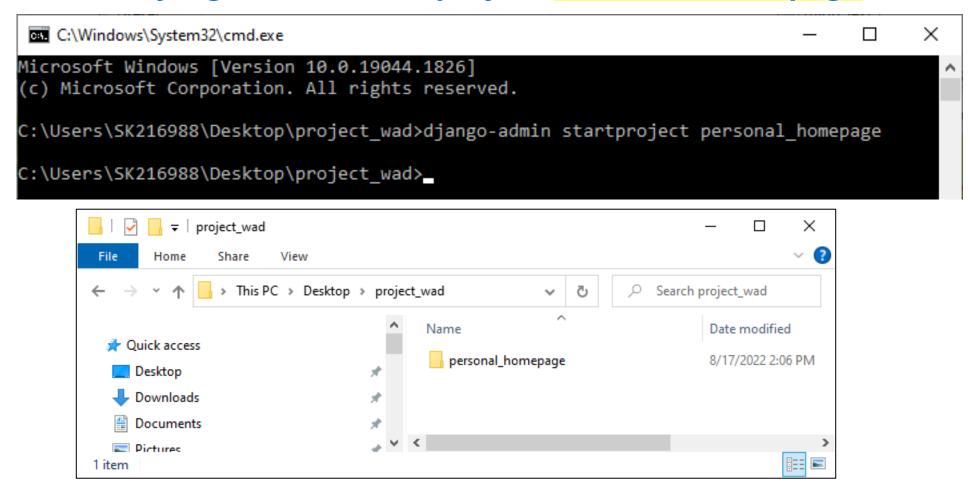
Installation

- 1. Go to https://www.python.org/
 - Install Python3
- 2. Create new folder example project_wad
- 3. Get into the project using command prompt
- 4. Install Django using commad prompt
 - > pip3 install django / pip install django



How to create django project

- 1. Create a new project, example Personal_Homepage
 - django-admin startproject Personal_Homepage



How to create django project

- 2. Go inside Personal_Homepage folder
 - Using comman prompt change directory
 - cd Personal_Homepage
- 3. Run the server
 - python manage.py runserver
- 4. Open browser

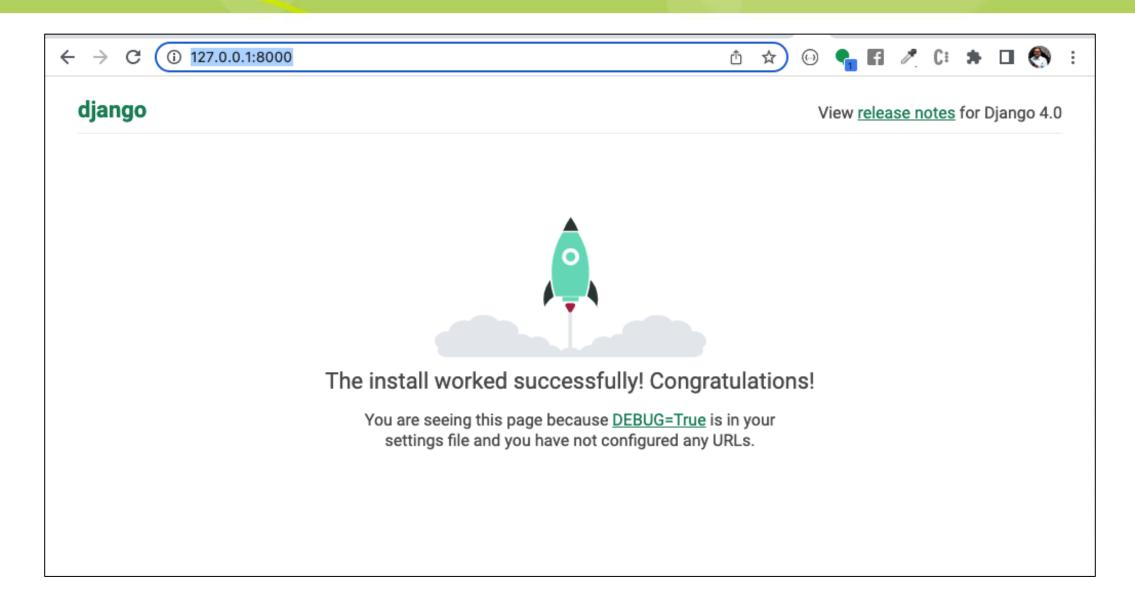
```
June 15, 2022 - 06:48:48

)jango version 4.0.5, using settings 'hello_django.settings'

Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.
```

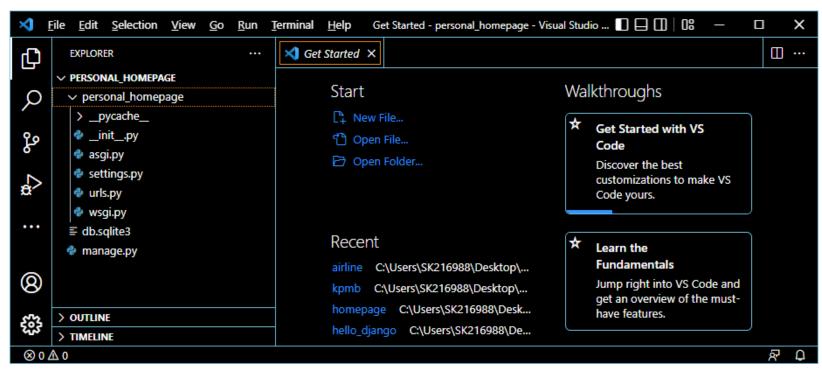
> Open this url on browser 127.0.0.1:8000

How to create django project



Open Folder

- 1. Open Visual Studio Code
- 2. File -> Open Folder
- 3. Look for the Personal_Hompage subfolder inside project_wad folder
- 4. Type select folder
- 5. Ok



a. manage.py

help us to execute commands on our terminal. Don't EDIT this file!

b. settings.py

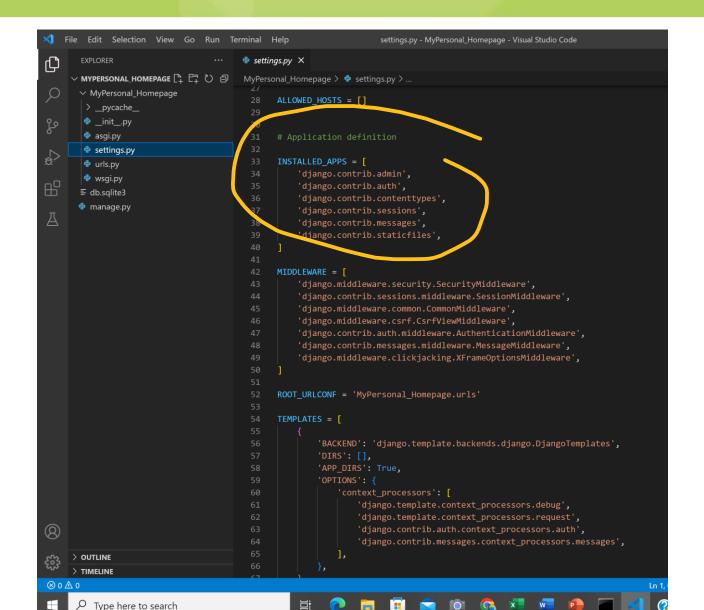
contains some important configuration settings for our new project, for example the database that we use. We will use default settings first but at the end of the course we might change a little bit (for deployment subject)

c. urls.py

> contains directions for where users should be routed after navigating to a certain URL. We will change this a lot

b. settings.py

> contains some important configuration settings for our new project, for exam ple the database that we use. We will use default settings first but at the end of the course we might change a little bit (for deployment subject)



c. urls.py

contains directions for where users should be routed after navigating to a certain URL. We will change this a lot

```
File Edit Selection View Go Run Terminal Help
                                                                   urls.py - MyPersonal_Homepage - Visual Studio Code
    EXPLORER
  ∨ MYPERSONAL_HOMEPAGE [ + [ □] ひ 回 MyPersonal_Homepage > 🖗 urls.py > ...
                                             """MyPersonal Homepage URL Configuration

∨ MyPersonal_Homepage

     > _pycache_
                                            The `urlpatterns` list routes URLs to views. For more information please see:
     __init__.py
                                                 https://docs.djangoproject.com/en/4.0/topics/http/urls/
     asgi.py
                                            Examples:
     settings.py
                                            Function views
    d urls.py
                                                1. Add an import: from my_app import views
                                                Add a URL to urlpatterns: path('', views.home, name='home')
     wsgi.py
                                            Class-based views
    ≡ db.sqlite3
                                                1. Add an import: from other app.views import Home
    manage.py
                                                Add a URL to urlpatterns: path('', Home.as_view(), name='home')
                                            Including another URLconf
                                                1. Import the include() function: from django.urls import include, path
                                                Add a URL to urlpatterns: path('blog/', include('blog.urls'))
                                             from django.contrib import admin
                                             from django.uris import pat
                                            urlpatterns = [
                                                 path('admin/', admin.site.urls),
```

Create subproject

- In a Django project (Personal_Hompage) you can have multiple subprojects, eg: traveloka might have a flight subprojects, hotels subprojects etc..
- But normally in small to medium project, we only have 1 subproject
- We have to create the subproject
 - python manage.py startapp hello_subproject

```
C:\Windows\System32\cmd.exe

You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations for ap \( \text{p(s)}: \) admin, auth, contenttypes, sessions.

Run 'python manage.py migrate' to apply them.

August 17, 2022 - 14:12:47

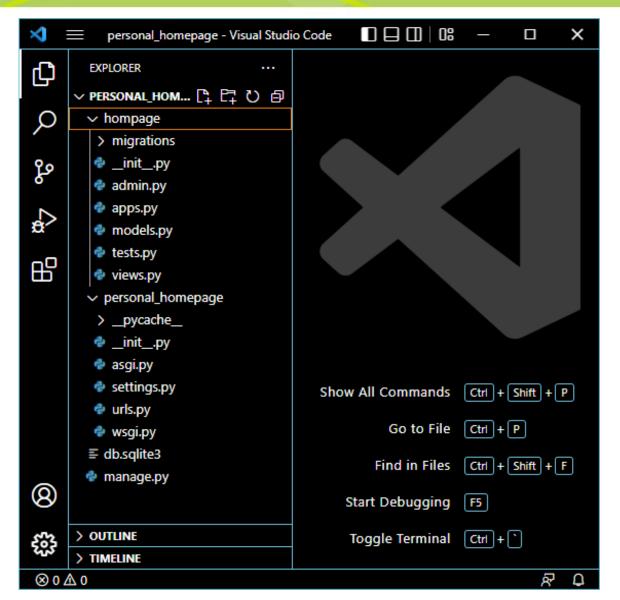
Django version 4.0.5, using settings 'personal_homepage.settings'

Starting development server at http://127.0.0.1:8000/

Quit the server with CTRL-BREAK.

C:\Users\SK216988\Desktop\project_wad\personal_homepage>python manage.py startapp hompage

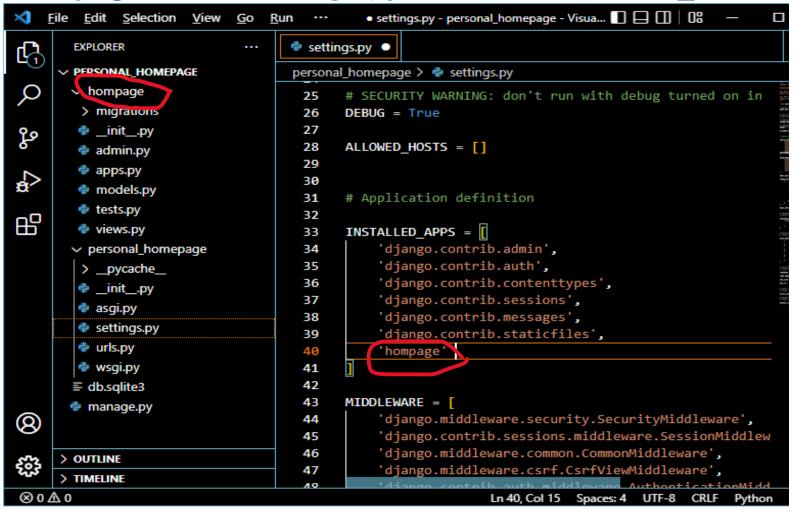
C:\Users\SK216988\Desktop\project_wad\personal_homepage>
```



Important files will be generated

- models.py
 - To define our model (data/tables in database)
- 2. views.py
 - Controller (logic of our application)

1. Add homepage inside Settings.py under "INSTALLED_APPS"



2. Create and link url files

- a) Add new file in (subproject) hello_subproject-> urls.py
- b) Add the following code:

```
from django.urls import path
from . import views

urlpatterns = [
   path("", views.index, name="index"),
]
```

```
• urls.py - personal_homepage - Visual Studio Code
urls.py
                                                                                     Ⅲ ...
        EXPLORER
                                     settings.py •
                                     hompage > 💠 urls.py

✓ PERSONAL HOMEPAGE

                                            from django.urls import path
        hompage
                                            from . import views
         > migrations
         🔷 init .py
                                            urlpatterns =
         admin.pv
                                            path("",views.index, name="index")
         apps.py
         models.py
         🕏 tests.py
         urls.py
         views.py
        personal_homepage
         > __pycache__
        __init__.py
         asgi.py
         settings.py
         urls.py
         wsgi.py

≡ db.sqlite3

        manage.pv
 ⊗ 0 ∆ 0
                                               Ln 7, Col 1 Spaces: 4 UTF-8 CRLF Python
```

Add codings inside urls.py in the subproject/app folder

```
from django.urls import path
from . import views
urlpatterns = [
  path("", views.index, name="index"),
```

Add codings inside urls.py in the personalhomepage

```
File Edit Selection View Go Run Terminal Help
                                                                      • urls.py - MyPersonal_Homepage - Visual Studio Code
                                                        urls.py MyPersonal_Homepage 2
urls.py Myhomepage
L 2
       EXPLORER
                                        settings.py
                                         MyPersonal Homepage > 🕏 urls.py > ...

✓ MYPERSONAL HOMEPAGE

                                                """MyPersonal Homepage URL Configuration
Myhomepage 

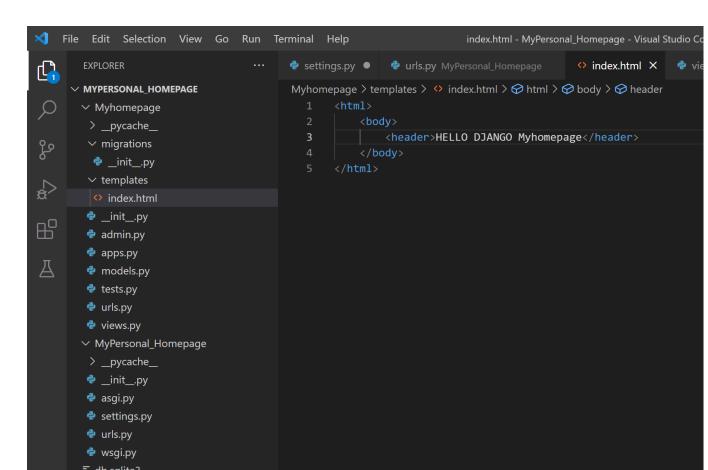
∨ migrations

                                                The `urlpatterns` list routes URLs to views. For more information please see:
وړ
         __init__.py
                                                    https://docs.djangoproject.com/en/4.0/topics/http/urls/
       __init__.py
                                                Examples:
       admin.py
                                                Function views
       apps.py
                                                   1. Add an import: from my_app import views
                                                    Add a URL to urlpatterns: path('', views.home, name='home')
       models.py
Class-based views
       dests.py
                                                    1. Add an import: from other_app.views import Home
                                          10
       🕏 urls.py —
                                                    2. Add a URL to urlpatterns: path('', Home.as_view(), name='home')
                                          11
丛
       views.py
                                                Including another URLconf
                                          12

✓ MyPersonal_Homepage

                                                    1. Import the include() function: from django.urls import include, path
                                          13
        > _pycache_
                                                    2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
                                          14
       __init__.py
                                          15
                                                .....
                                                from django.contrib import admin
                                          16
        asgi.py
                                          17
                                                from django.urls import path, include
       settings.py
                                          18
       d urls.py
                                                urlpatterns = [
       wsgi.py
                                                    path('admin/', admin.site.urls),
                                          20
       ≡ db.sqlite3
                                                    path('my page/'include('Myhomepage.urls'))
                                          21
      manage.py
                                          22
```

- 3. Create folder templates in subproject (hello_subproject)
- 4. In the templates folder, create a html file which is index.html
- 5. Create design for your main page

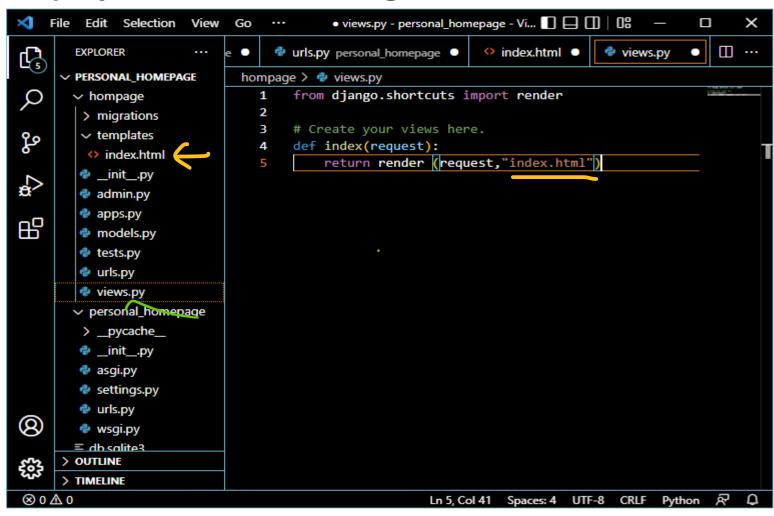


6. Inside views.py in hello_subproject add the following code

from django.shortcuts import render

Create your views here.

def index(request):
 return render (request,"index.html")



- 7. Save document (setting, urls, view, html)
- 8. Runserver using command prompt
 - python manage.py runserver

```
C:\Windows\System32\cmd.exe-python manage.py runserver

C:\Users\SK216988\Desktop\project_wad\personal_homepage>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).

You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations for ap p(s): admin, auth, contenttypes, sessions.

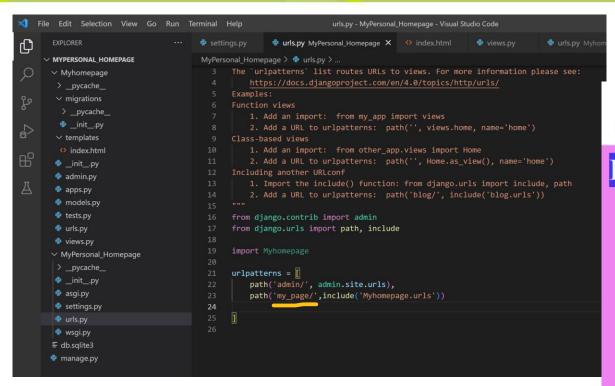
Run 'python manage.py migrate' to apply them.

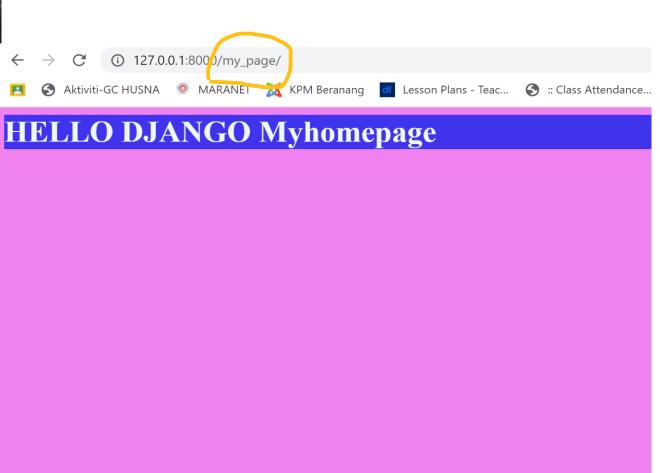
August 17, 2022 - 16:27:51

Django version 4.0.5, using settings 'personal_homepage.settings'

Starting development server at http://127.0.0.1:8000/

Quit the server with CTRL-BREAK.
```





Try to add page about.

- 1. Create file about.html
- 2. Create design for your page
- 3. Edit your view.py

```
def about(request):
return render (request, "about.html")
```

4. Add path in homepage urls, by (subproject)

```
path("about/", views.about, name="about")
```

5. Edit index.html link for li About Me

File Edit Selection View

PERSONAL_HOMEPAGEhompagemigrations

templatesindex.html

__init__.py

admin.py

models.py

apps.py

tests.py
urls.py

EXPLORER

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About Me

6. Add link in page about to view page index.

How to add image & css file (folder static)

```
IN HTML file coding:

✓ static

∨ img

    □ bg.jpg

                {% static 'styles.css' %}

    □ bg1.jpg

 caricon.png
                (css file is located directly in static folder)
 error_outline.svg
 icon.png
 icons8-male-user-96 (3) 1.svg
 icons8-steering-wheel-52.png
 icons8-ticket-96 (1).png
                <img src="../static/img/28910691 7506749.jpg">
 logo.png
 people.png
                (if in the static folder have subfolder name img)
 profileicon.png
# styles.css
> templates
__init__.py
```

Try this

Create page hobbies and link from homepage