

RAE 411

Third Practical Exercise Report

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240 AMM 031

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Task 1

Example 1:

Thanks to the “pip install django” command executed in our linux terminal, Django has been installed and we can verify the version as it is showed in the screen shot.

```
come@ClassECome-VirtualBox:~$ django-admin --version  
4.2.11
```

Now let's see all the available subcommand of Django's framework.

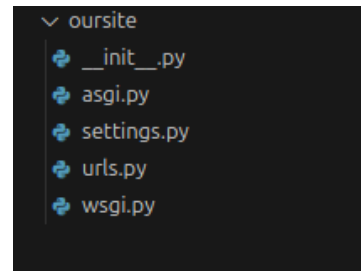
```
check  
compilemessages  
createcachetable  
dbshell  
diffsettings  
dumpdata  
flush  
inspectdb  
loaddata  
makemessages  
makemigrations  
migrate  
optimizemigration  
runserver  
sendtestemail  
shell  
showmigrations  
sqlflush  
sqlmigrate  
sqlsequencereset  
squashmigrations  
startapp  
startproject  
test  
testserver
```

The “startproject” subcommand will help us to create a new site.

```
come@ClassECome-VirtualBox:~$ django-admin startproject oursite
```

Let's name the site that we are creating "oursite".

Now we can look in our vs code IDE the oursite's folder:



After that, we launch the server from the oursite's folder and thanks to the "python3 manage.py runserver" subcommand.

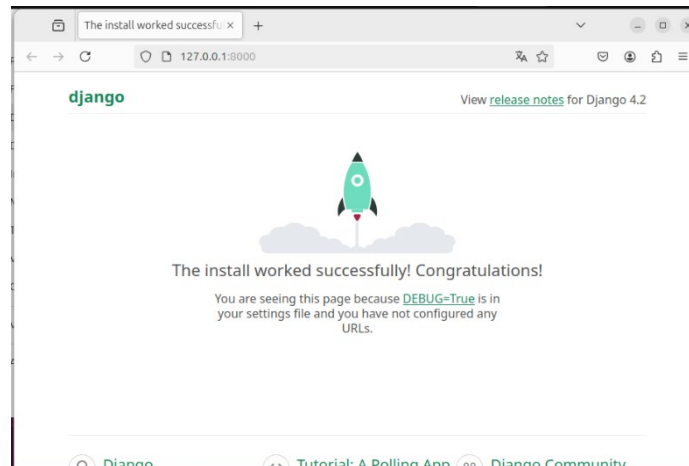
```
come@ClassECome-VirtualBox:~$ cd oursite
come@ClassECome-VirtualBox:~/oursite$ python3 manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

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 app(s): admin, auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.
December 20, 2024 - 08:42:42
Django version 4.2.11, using settings 'oursite.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.

[20/Dec/2024 08:43:54] "GET / HTTP/1.1" 200 10664
Not Found: /favicon.ico
[20/Dec/2024 08:43:55] "GET /favicon.ico HTTP/1.1" 404 2111
[20/Dec/2024 08:47:35] "GET / HTTP/1.1" 200 10664
Not Found: /favicon.ico
```

Here, we can observe that the Django framework worked well.



We do then some migrations.

```
come@ClassECome-VirtualBox:~/oursite$ python3 manage.py migrate
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, sessions
Running migrations:
  Applying contenttypes.0001_initial... OK
  Applying auth.0001_initial... OK
  Applying admin.0001_initial... OK
  Applying admin.0002_logentry_remove_auto_add... OK
  Applying admin.0003_logentry_add_action_flag_choices... OK
  Applying contenttypes.0002_remove_content_type_name... OK
  Applying auth.0002_alter_permission_name_max_length... OK
  Applying auth.0003_alter_user_email_max_length... OK
  Applying auth.0004_alter_user_username_opts... OK
  Applying auth.0005_alter_user_last_login_null... OK
  Applying auth.0006_require_contenttypes_0002... OK
  Applying auth.0007_alter_validators_add_error_messages... OK
  Applying auth.0008_alter_user_username_max_length... OK
  Applying auth.0009_alter_user_last_name_max_length... OK
  Applying auth.0010_alter_group_name_max_length... OK
  Applying auth.0011_update_proxy_permissions... OK
  Applying auth.0012_alter_user_first_name_max_length... OK
  Applying sessions.0001_initial... OK
```

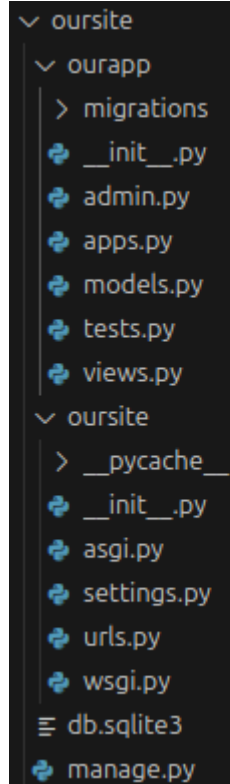
Now our folder/workspace became like this:

```
▼ oursite
  ▼ oursite
    > __pycache__
    + __init__.py
    + asgi.py
    + settings.py
    + urls.py
    + wsgi.py
    ≡ db.sqlite3
    + manage.py
```

Now, we create an application named “ourapp” with the following Django subcommand:

```
come@ClassECome-VirtualBox:~$ django-admin startapp ourapp
```

Our workspace evolves as well:



We implement a views function that returns a string.

```
5
6 def Hello(request):
7     return HttpResponse("Hello World! I am coming...")
8
9
```

Then in the oursite/urls.py file we route it by adding the app's path.

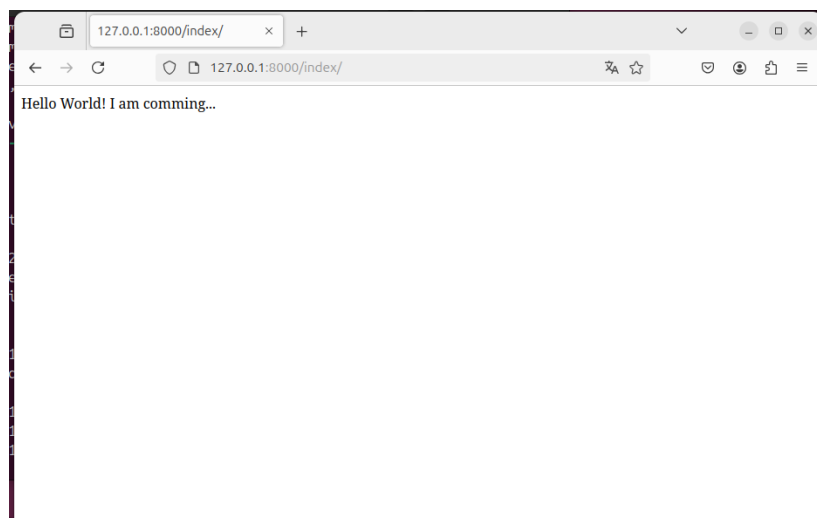
```
16
17 from django.contrib import admin
18 from django.urls import path
19 from ourapp.views import Hello
20
21 urlpatterns = [
22     path('admin/', admin.site.urls),
23     path('index/', Hello)
24 ]
25
```

```
^Ccome@ClassECome-VirtualBox:~/oursite$ python3 manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
December 20, 2024 - 11:41:06
Django version 4.2.11, using settings 'oursite.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.

Not Found: /
[20/Dec/2024 11:41:21] "GET / HTTP/1.1" 404 2166
Not Found: /favicon.ico
Not Found: /
[20/Dec/2024 11:41:23] "GET / HTTP/1.1" 404 2166
[20/Dec/2024 11:41:39] "GET /index HTTP/1.1" 301 0
[20/Dec/2024 11:41:40] "GET /index/ HTTP/1.1" 200 28
```

After the “runserver” subcommand, we can see that it works well.



Example2:

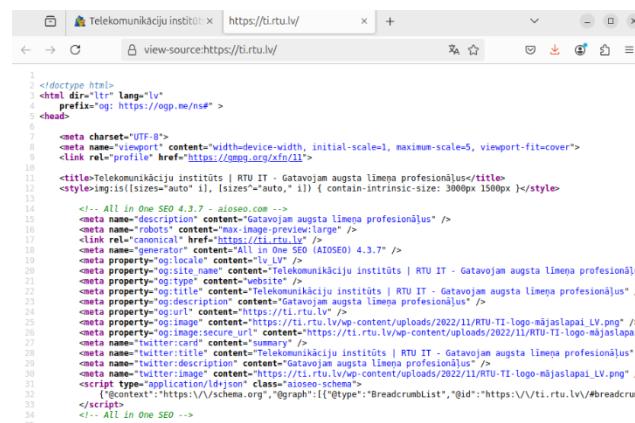
Firstly, we create a second app with the relevant Django subcommand.

```
come@ClassECome-VirtualBox:~/oursite$ django-admin startapp ourapp2
```

Then, we manually create a templates folder in the ourapp2's folder:

```
come@ClassECome-VirtualBox:~/oursite$ cd ourapp2
come@ClassECome-VirtualBox:~/oursite/ourapp2$ mkdir templates
come@ClassECome-VirtualBox:~/oursite/ourapp2$ ls
admin.py  __init__.py  models.py  tests.py
apps.py   migrations  templates  views.py
```

Now, the RTU html doc has been saved the templates' folder.



```
1 <!doctype html>
2 <html dir="ltr" lang="lv">
3   <prefix:og: https://ogp.me/ns* >
4   <head>
5
6   <meta charset="UTF-8">
7   <meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=5, viewport-fit=cover">
8   <link rel="profile" href="https://ogp.org/xfn/11">
9
10
11   <title>Telekomunikāciju institūts | RTU IT - Gatavojam augsta līmeņa profesionāļus</title>
12   <style>img:is([sizes="auto" i], [sizes="auto," i]) { contain-intrinsic-size: 3800px 1500px }</style>
13
14   <!-- All in One SEO 4.3.7 - aiosseo.com -->
15   <meta name="description" content="Gatavojam augsta līmeņa profesionāļus" />
16   <meta name="robots" content="max-image-preview:large" />
17   <link rel="canonical" href="https://ti.rtu.lv/" />
18   <meta name="generator" content="All in One SEO (AIOSSEO) 4.3.7" />
19   <meta property="og:locale" content="lv_LV" />
20   <meta property="og:site_name" content="Telekomunikāciju institūts | RTU IT - Gatavojam augsta līmeņa profesionāļus" />
21   <meta property="og:type" content="website" />
22   <meta property="og:title" content="Telekomunikāciju institūts | RTU IT - Gatavojam augsta līmeņa profesionāļus" />
23   <meta property="og:description" content="Gatavojam augsta līmeņa profesionāļus" />
24   <meta property="og:url" content="https://ti.rtu.lv/" />
25   <meta property="og:image" content="https://ti.rtu.lv/wp-content/uploads/2022/11/RTU-TI-logo-majaslapai_LV.png" />
26   <meta property="og:image:secure_url" content="https://ti.rtu.lv/wp-content/uploads/2022/11/RTU-TI-logo-majaslapai_LV.png" />
27   <meta name="twitter:card" content="summary" />
28   <meta name="twitter:title" content="Telekomunikāciju institūts | RTU IT - Gatavojam augsta līmeņa profesionāļus" />
29   <meta name="twitter:description" content="Gatavojam augsta līmeņa profesionāļus" />
30   <meta name="twitter:image" content="https://ti.rtu.lv/wp-content/uploads/2022/11/RTU-TI-logo-majaslapai_LV.png" />
31   <script type="application/djson" class="aiosseo-schema">
32     {"@context":"https://schema.org","@graph":[{"@type":"BreadcrumbList","@id":"https://ti.rtu.lv/#Breadcrumb
33
34   </script>
35   <!-- All in One SEO -->
```

Unfortunately, I think Django doesn't recognize the template's directory so it doesn't work.



```
TemplateDoesNotExist at /index2/
templates/ourapp2/https__ti.rtu.lv_.html

Request Method: GET
Request URL: http://127.0.0.1:8000/index2/
Django Version: 4.2.11
Exception Type: TemplateDoesNotExist
Exception Value: templates/ourapp2/https__ti.rtu.lv_.html
Exception Location: /usr/lib/python3/dist-packages/django/template/loader.py, line 19, in get_template
Raised during: ourapp2.views.Hello_index2
Python Executable: /usr/bin/python3
Python Version: 3.12.3
Python Path:
  ['/home/come/oursite',
   '/usr/lib/python3.12.zip',
   '/usr/lib/python3.12',
   '/usr/lib/python3.12/lib-dynload',
   '/usr/local/lib/python3.12/dist-packages',
   '/usr/lib/python3.12/dist-packages']
Server time: Fri, 20 Dec 2024 17:34:13 +0000
```


Nevertheless, the templates is located in the right directory so I really don't understand why it isn't working.

```
^Ccome@ClassECome-VirtualBox:~/oursite$ cd ourapp2
come@ClassECome-VirtualBox:~/oursite/ourapp2$ cd templates
come@ClassECome-VirtualBox:~/oursite/ourapp2/templates$ cd ourapp2
come@ClassECome-VirtualBox:~/oursite/ourapp2/templates/ourapp2$ ls
https___ti.rtu.lv_.html
```

Task 2:

When I try to launch Apache24 it always outputs me this:

```
...: Le module sp\%cifi% est introuvable.
```

No matter what I do, it seems like I can't work with Apache on my computer.