

CAMPUS DIGITAL FP

DAW Desarrollo de Aplicaciones Web

Desarrollo Web en Entorno Servidor

Tarea DWES03. *Modelo-Vista-Controlador (MVC)*

13/12/2025

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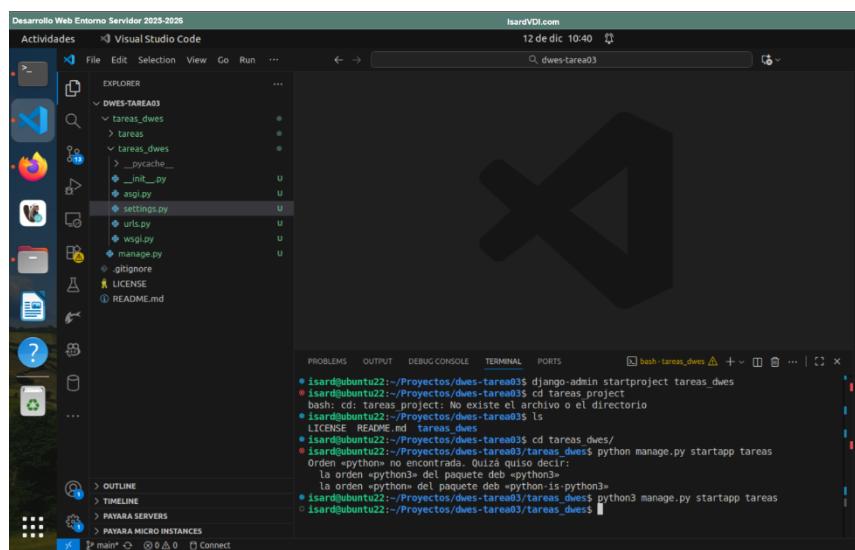
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Solución

1. Creación del proyecto Django

1. Crear un nuevo proyecto Django: **django-admin startproject tareas_dwes**
2. Acceder al directorio del proyecto: **cd tareas_dwes**
3. Crear la aplicación principal: **python3 manage.py startapp tareas**



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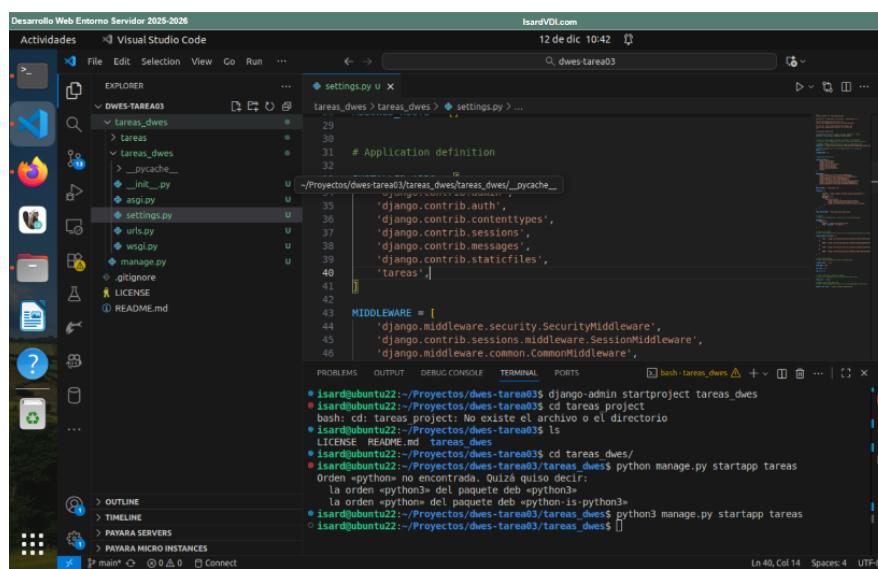
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tareas_dwes
> tareas
> tareas_dwes
> __pycache__
> __init__.py
> asgi.py
> settings.py
> urls.py
> wsgi.py
> manage.py
> .gitignore
> LICENSE
> README.md

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS bash:tareas_dwes + v □ □ □ ... x
* isard@ubuntu22:~/Proyectos/dwes-tarea03$ django-admin startproject tareas_dwes
* isard@ubuntu22:~/Proyectos/dwes-tarea03$ cd tareas project
bash: cd: tareas: No existe el archivo o el directorio
* isard@ubuntu22:~/Proyectos/dwes-tarea03$ ls
LICENSE README.md tareas_dwes
* isard@ubuntu22:~/Proyectos/dwes-tarea03$ cd tareas_dwes/
* isard@ubuntu22:~/Proyectos/dwes-tarea03/tareas_dwes$ python manage.py startapp tareas
Orden 'python3' no encontrada. Quizá quisiera decir:
la orden 'python3' del paquete deb «python3»
la orden 'python=3' del paquete deb «python-is-python3»
* isard@ubuntu22:~/Proyectos/dwes-tarea03/tareas_dwes$ python3 manage.py startapp tareas
* isard@ubuntu22:~/Proyectos/dwes-tarea03/tareas_dwes$ 

```

Fig. 1. Creación proyecto django, acceso directorio y crear aplicación principal

4. Registrar la app **tareas** en **settings.py** dentro de **INSTALLED_APPS**.



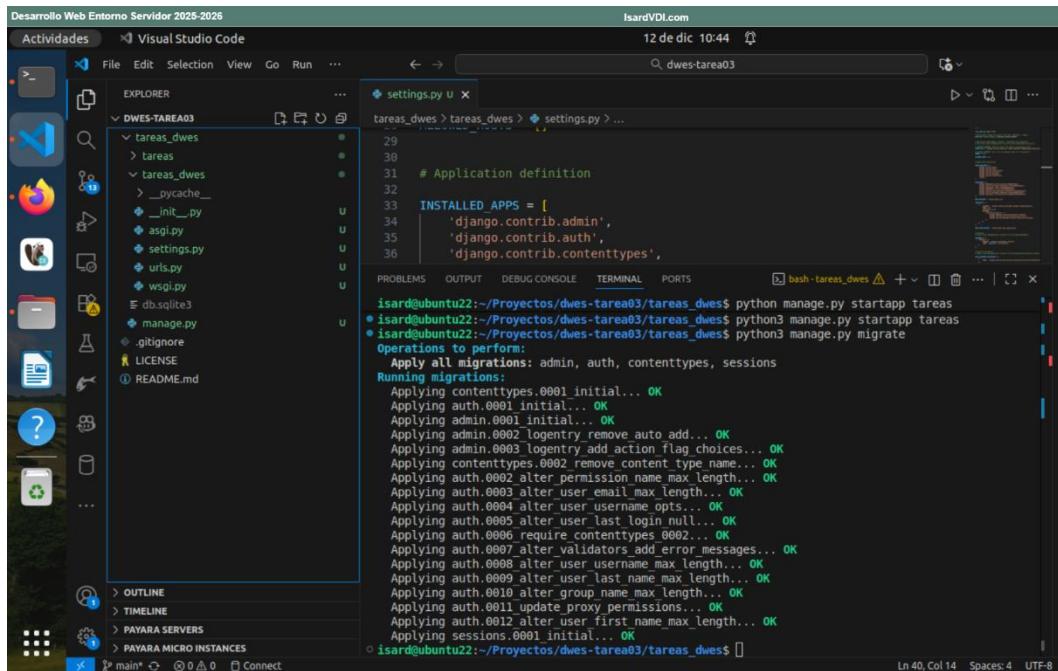
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EXPLORER DWES-TAREAS tareas_dwes
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> manage.py
> .gitignore
> LICENSE
> README.md

settings.py x
tareas_dwes > tareas_dwes > settings.py > ...
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31 # Application definition
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33     'django.contrib.auth',
34     'django.contrib.contenttypes',
35     'django.contrib.sessions',
36     'django.contrib.messages',
37     'django.contrib.staticfiles',
38     'tareas',
39
40 MIDDLEWARE = [
41     'django.middleware.security.SecurityMiddleware',
42     'django.contrib.sessions.middleware.SessionMiddleware',
43     'django.middleware.common.CommonMiddleware',
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45     'django.middleware.csrf.CsrfViewMiddleware',
46     'django.middleware.clickjacking.XFrameOptionsMiddleware',
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5. Ejecutar las migraciones iniciales: `python3 manage.py migrate`



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Desarrollo Web Entorno Servidor 2025-2026           IsardVDI.com
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EXPLORER      tareas_dwes > settings.py
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31 # Application definition
32
33 INSTALLED_APPS = [
34     'django.contrib.admin',
35     'django.contrib.auth',
36     'django.contrib.contenttypes',
37
38     'tareas_dwes',
39     'tareas'
40 ]
41
42 MIGRATION_MODULES = {
43     'auth': 'tareas_dwes.migrations.auth',
44     'contenttypes': 'tareas_dwes.migrations.contenttypes',
45     'sessions': 'tareas_dwes.migrations.sessions'
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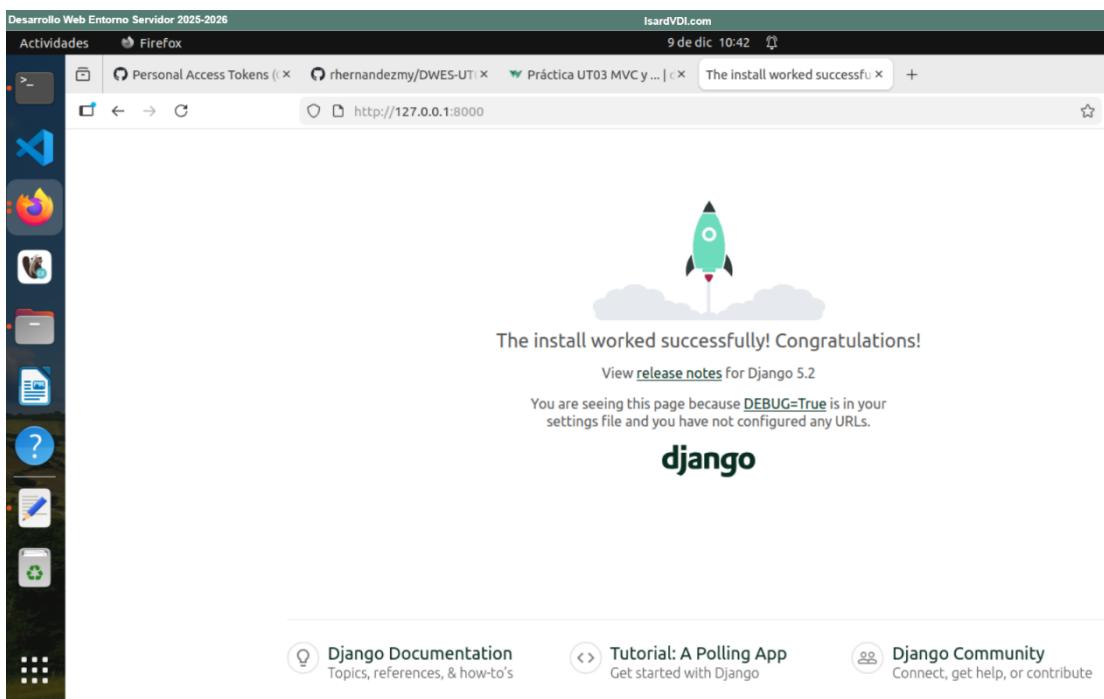
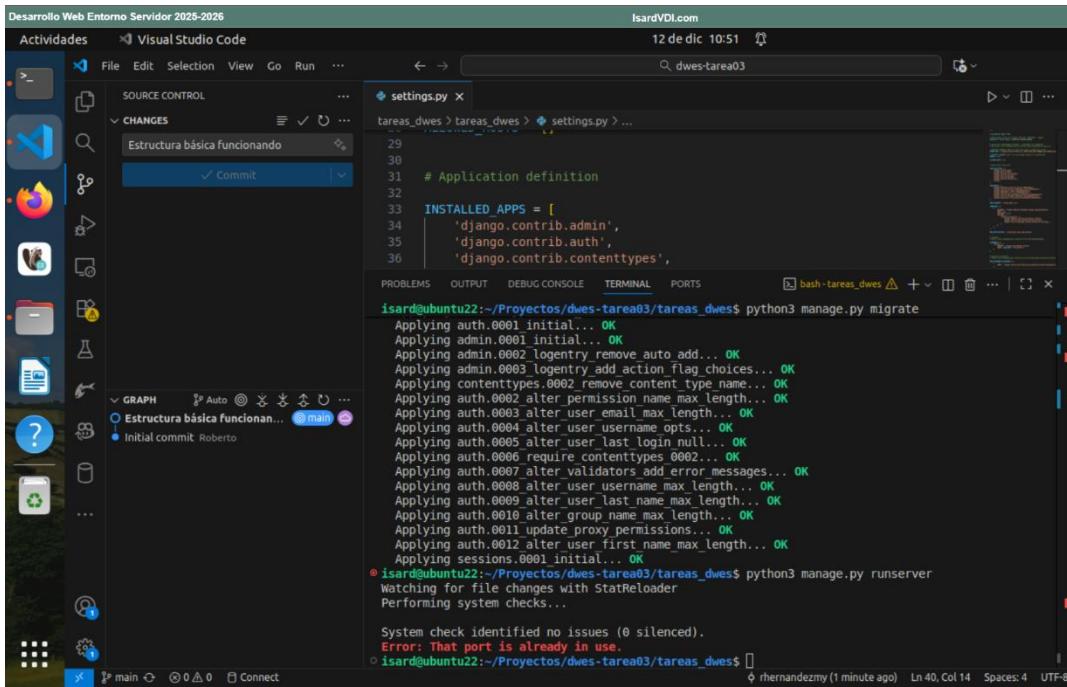


Fig. 5. Verificar el funcionamiento

7. Una vez llegados a este punto y con todo funcionando, debes crear un **commit** con el texto Estructura básica funcionando



```
isard@ubuntu22:~/Proyectos/dwes-tarea03/tareas_dwes$ python3 manage.py migrate
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
isard@ubuntu22:~/Proyectos/dwes-tarea03/tareas_dwes$ python3 manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
Error: That port is already in use.
isard@ubuntu22:~/Proyectos/dwes-tarea03/tareas_dwes$
```

Fig. 6. Commit realizado: "Estructura básica funcionando"

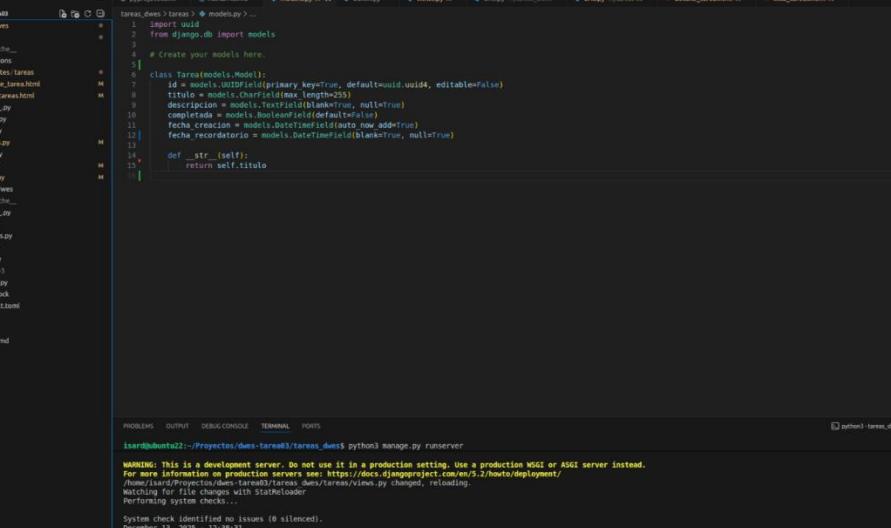
2. Desarrollo del modelo “Tareas”

Modelo (M)

En `tareas/models.py`, crear un **modelo Tarea** con los siguientes campos:

Campo	Tipo	Descripción
id	UUIDField (primary key)	Identificador único
titulo	CharField	Nombre o título de la tarea
descripcion	TextField	Descripción detallada
completada	BooleanField (por defecto False)	Estado de la tarea
fecha_creacion	DateTimeField (auto_now_add=True)	Fecha de creación
fecha_recordatorio	DateTimeField	Fecha recordatoria

 Añade el método `__str__()` para mostrar el título de la tarea en el panel de administración.



The screenshot shows a terminal window with the following content:

```
isard@ubunt02:~/Proyectos/dwes-tareas03/tareas_dwes$ python3 manage.py runserver
```

WARNING: This is a development server. Do not use it in a production setting. Use a production WSGI or ASGI server instead.
For more information on production servers see: <https://docs.djangoproject.com/en/3.2/howto/deployment/>
/home/isard/Proyectos/dwes-tareas03/tareas_dwes/tareas/views.py changed, reloading.
Watching for file changes with StatReloader
Performing system check(s)...
System check identified no issues (0 silenced).
December 13, 2025 - 12:38:31
Django version 3.2.6, using settings 'tareas_dwes.settings'
Available settings: __file__, ALLOWED_HOSTS, DEBUG
Quit the server with CONTROL-C.

WARNING: This is a development server. Do not use it in a production setting. Use a production WSGI or ASGI server instead.
For more information on production servers see: <https://docs.djangoproject.com/en/3.2/howto/deployment/>
[13/Dec/2025 12:39:03] "GET /tareas/ HTTP/1.1" 200 495

Fig. 7. Crear un modelo de la tarea

Commit realizado con el texto **Modelo funcionando**

3. Creación de la vista y la template para mostrar una Tarea

En **tareas/views.py**, implementar la siguiente vista (funciones que realizan las tareas):

Nombre	Tipo	Descripción
detalle_tarea	DetailView	Muestra el detalle de una tarea

Fig. 8. Creación de la vista

4. Creación de la url para mostrar la tarea y el template que la muestre

URLs (C)

En **tareas/urls.py**: Crear la ruta correspondiente a la vista.

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File Edit Selection View Run Terminal Help

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

CardboardUbuntu22~|Projects/dmes-tareas/dmes\$ python manage.py runserver

For more information on production servers see: <https://docs.djangoproject.com/en/5.2/howto/deployment/>

[13/Oct/2025 12:44:44] "GET /tareas HTTP/1.1" 200 495

dmes/tareas/dmes/tareas/dmes/tareas/models.py changed, reloading.

Performing system checks...

System check identified no issues (0 silenced).

September 13, 2025 12:44:44

Django 5.2.1 ('dmes') is setting tareas.dmes.settings'

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

Quit the server with CONTROL-C.

WARNING: This is a development server. Do not use it in a production setting. Use a production WSGI or ASGI server instead.

For more information on production servers see: <https://docs.djangoproject.com/en/5.2/howto/deployment/>

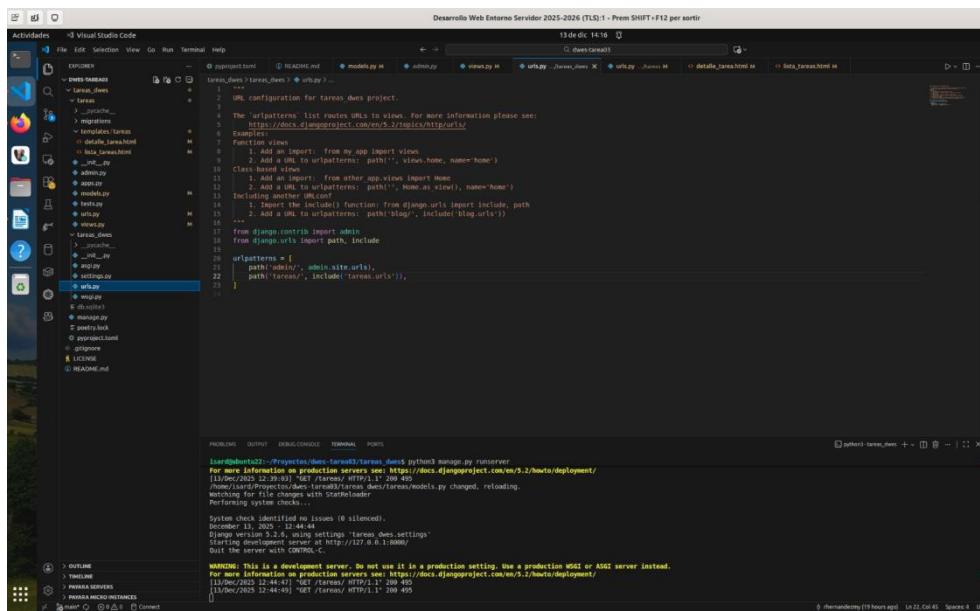
13/Oct/2025 12:44:49] "GET /tareas HTTP/1.1" 200 495

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Fig. 9. Archivo URLs.py de la ruta tareas

Incluir el fichero **tareas/urls.py** en el **urls.py principal** del proyecto.



```

13 de dic 14:16 Desarrollo Web Entorno Servidor 2023-2026 (TLS) 1 - Prem SHIFT+F12 para sortir

File Edit Selection View Go Run Terminal Help
READEMe.md README.md models.py admin.py views.py M urls.py _tareas_urls X urls.py _tareas_urls M detail_tarea.html M lista_tareas.html M

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

lsard@ubuntu22:~/Proyectos/dwes-tareas$ python3 manage.py runserver
For more information on production servers see: https://docs.djangoproject.com/en/3.2/howto/deployment/
[13/Oct/2023 12:44:47] "GET / [HTTP/1.1" 200 495
/home/lsard/Proyectos/dwes-tareas/tareas/tareas/models.py changed, reloading.
Performing system checks...
System check identified no issues (0 silenced).
December 13, 2025 - 12:44:44
django.utils.deprecation.WarningsFilter: Using settings 'tareas_dwes.settings'.
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.

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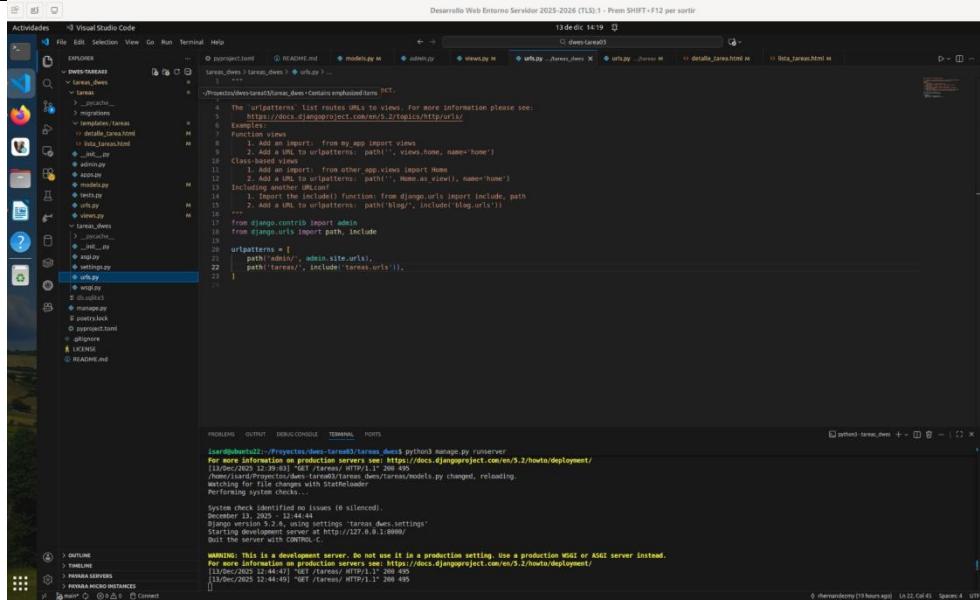
```

Fig. 10. Archivo URLs.py de la ruta principal

Templates (T)

Crear una carpeta **templates/tareas** con el siguiente archivo:

Archivo	Descripción
detalle_tarea.html	Muestra información detallada de la tarea



```

13 de dic 14:16 Desarrollo Web Entorno Servidor 2023-2026 (TLS) 1 - Prem SHIFT+F12 para sortir

File Edit Selection View Go Run Terminal Help
READEMe.md README.md models.py admin.py views.py M urls.py _tareas_urls X urls.py _tareas_urls M detail_tarea.html M lista_tareas.html M

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

lsard@ubuntu22:~/Proyectos/dwes-tareas$ python3 manage.py runserver
For more information on production servers see: https://docs.djangoproject.com/en/3.2/howto/deployment/
[13/Oct/2023 12:44:47] "GET / [HTTP/1.1" 200 495
/home/lsard/Proyectos/dwes-tareas/tareas/tareas/models.py changed, reloading.
Performing system checks...
System check identified no issues (0 silenced).
December 13, 2025 - 12:44:44
django.utils.deprecation.WarningsFilter: Using settings 'tareas_dwes.settings'.
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.

> OUTLINE
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> PASTA SERVERS
> PASTA MICRO INSTANCES
> CORTAR

```

Fig.11. Archivo en templates/tareas detalle_tarea.html

Commit realizado con el texto **Vistas funcionando**

Resultado final en la web:

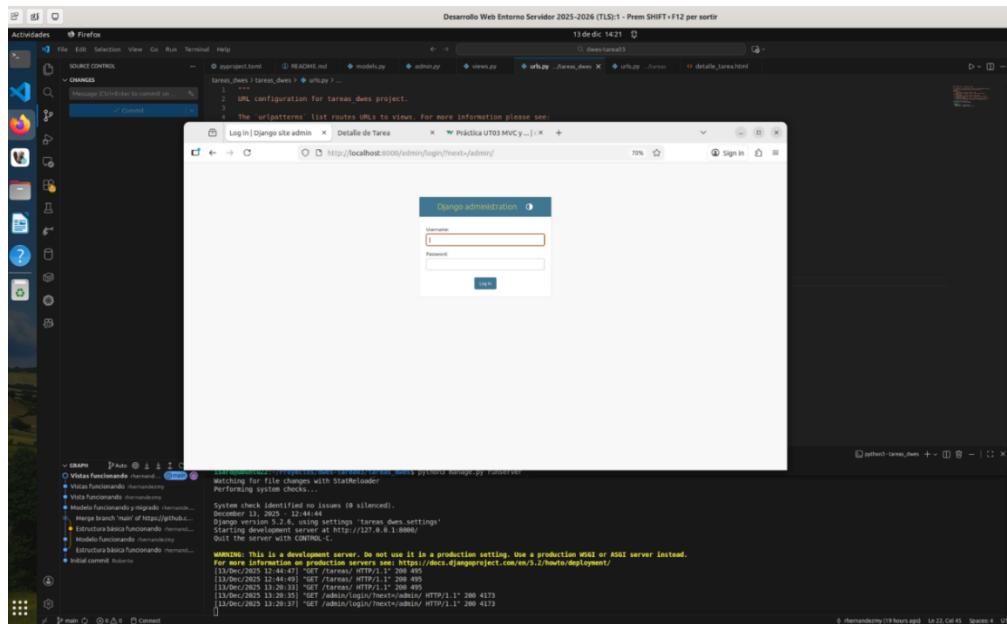


Fig.12. Resultado final:1

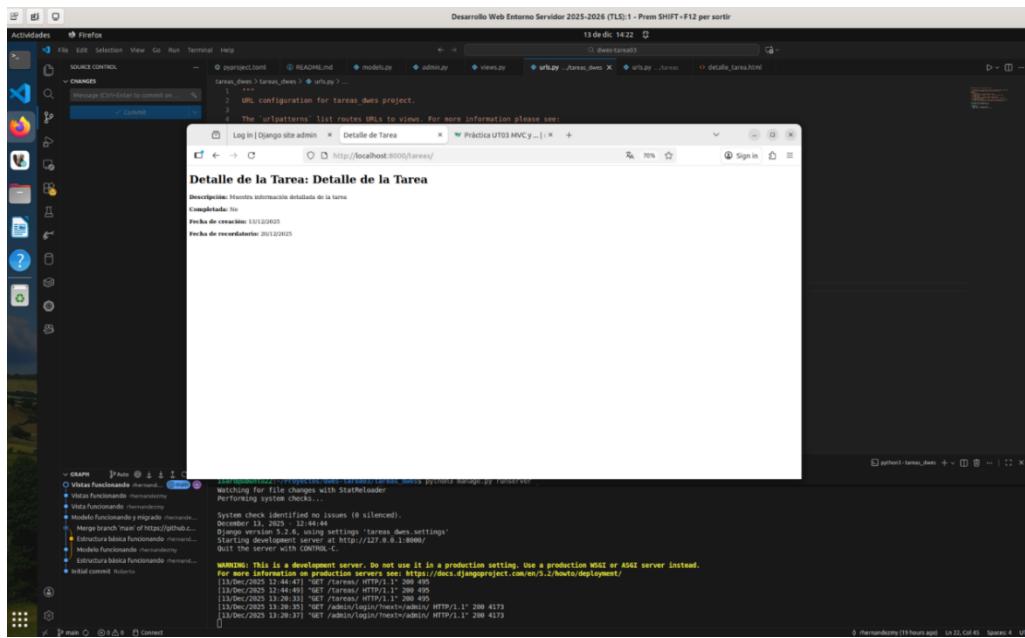


Fig.13. Resultado final:2

Para poder ver la tarea completa esta subida a mi repositorio:

<https://github.com/rhernandezmy/DWES-UT03-Practica-2025-2026>