

M7_AE2_ABP-Ejercicio individual

Instalación de dependencias.

```
(mi_entorno) roxysolano@192 M7_AE2_ABP-Ejercicio-individual % pip install django
Collecting django
  Using cached django-5.2.8-py3-none-any.whl.metadata (4.1 kB)
Collecting asgiref<=3.8.1 (from django)
  Using cached asgiref-3.11.0-py3-none-any.whl.metadata (9.3 kB)
Collecting sqlparse<=0.3.1 (from django)
  Using cached sqlparse-0.5.4-py3-none-any.whl.metadata (4.7 kB)
Using cached django-5.2.8-py3-none-any.whl (8.3 MB)
Using cached asgiref-3.11.0-py3-none-any.whl (24 kB)
Using cached sqlparse-0.5.4-py3-none-any.whl (45 kB)
Installing collected packages: sqlparse, asgiref, django
Successfully installed asgiref-3.11.0 django-5.2.8 sqlparse-0.5.4

[notice] A new release of pip is available: 25.2 -> 25.3
[notice] To update, run: pip install --upgrade pip
(mi_entorno) roxysolano@192 M7_AE2_ABP-Ejercicio-individual % pip install mysqlclient
Collecting mysqlclient
  Using cached mysqlclient-2.2.7.tar.gz (91 kB)
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... done
Building wheels for collected packages: mysqlclient
  Building wheel for mysqlclient (pyproject.toml) ... done
  Created wheel for mysqlclient: filename=mysqlclient-2.2.7-cp314-cp314-macosx_10_15_universal2.whl size=98205 sha256=1caddf621a1ccd737289b6d1606b002a34ceedcf3879dfb9df4331a1d164bab2
  Stored in directory: /Users/roxysolano/Library/Caches/pip/wheels/ad/30/4b/d780f7e0cd20d6c91d107eb8fbefa9982f7f4d0533d8c63039
Successfully built mysqlclient
Installing collected packages: mysqlclient
Successfully installed mysqlclient-2.2.7

[notice] A new release of pip is available: 25.2 -> 25.3
[notice] To update, run: pip install --upgrade pip
```

Creación de un proyecto Django

```
(mi_entorno) roxysolano@192 M7_AE2_ABP-Ejercicio-individual % django-admin startproject mi_proyecto
(mi_entorno) roxysolano@192 M7_AE2_ABP-Ejercicio-individual % cd mi_proyecto
```

Creación de una aplicación Django

```
● (mi_entorno) roxysolano@192 mi_proyecto % python manage.py startapp productos
```

Aplicación de migraciones

```
● (mi_entorno) roxysolano@192 mi_proyecto % python manage.py makemigrations
Migrations for 'productos':
  productos/migrations/0001_initial.py
  + Create model Producto
● (mi_entorno) roxysolano@192 mi_proyecto % python manage.py migrate
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, productos, 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 productos.0001_initial... OK
  Applying sessions.0001_initial... OK
```

Operaciones CRUD con el ORM de Django

```
O (mi entorno) roxysolano@192 mi_proyecto % python manage.py shell
7 objects imported automatically (use -v 2 for details).

Python 3.14.0 (v3.14.0:ebf955df7a8, Oct 7 2025, 08:20:14) [Clang 16.0.0 (clang-1600.0.26.6)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
(InteractiveConsole)
>>> from productos.models import Producto
>>>
>>> producto = Producto(
...     nombre="Laptop Gamer",
...     descripcion="Laptop de alto rendimiento para videojuegos",
...     precio=1500.00,
...     stock=10
... )
>>> producto.save()
>>>
>>> p = Producto.objects.get(nombre="Laptop Gamer")
>>>
>>> print(p.nombre, p.descripcion, p.precio, p.stock, p.fecha_creacion)
Laptop Gamer Laptop de alto rendimiento para videojuegos 1500.00 10 2025-12-01 14:55:17.087724+00:00
>>>
>>> p.precio = 1400.00
>>> p.save()
>>>
>>> print(p.precio)
1400.0
>>>
>>> p.delete
<bound method Model.delete of <Producto: Laptop Gamer>>
>>> p.delete()
(1, {'productos.Producto': 1})
>>> █
```