Python Django Project Setup Instructions – FinalYearProjectsHub

# Introduction

This guide explains how to set up and run any Python Django project downloaded from FinalYearProjectsHub. It is common for all Python/Django projects, including CRUD apps, Student Management Systems, To-Do apps, and more.  
Note: All projects are provided for educational purposes only. Commercial use or resale is strictly prohibited.

# Step 1: Prerequisites

- Python 3.8 or above  
- Django Framework  
- PIP (Python Package Manager)  
- Virtual Environment (venv) – optional but recommended  
- Code Editor (VS Code, PyCharm, Sublime Text)  
- Database (SQLite by default, MySQL or PostgreSQL optional)

# Step 2: Download and Extract Project

1. Download the project ZIP file from FinalYearProjectsHub.  
2. Extract it to a preferred folder on your system (e.g., C:\DjangoProjects\YourProjectName).  
3. Open the project folder in your code editor.

# Step 3: Create and Activate Virtual Environment

Windows:

python -m venv env

env\Scripts\activate

macOS/Linux:

python3 -m venv env

source env/bin/activate

# Step 4: Install Required Dependencies

pip install -r requirements.txt

# Step 5: Configure Database

- SQLite: Works automatically. No extra setup needed.  
- MySQL/PostgreSQL: Update settings.py in your project:

DATABASES = {  
 'default': {  
 'ENGINE': 'django.db.backends.mysql', # Or 'postgresql'  
 'NAME': 'your\_db\_name',  
 'USER': 'root',  
 'PASSWORD': 'your\_password',  
 'HOST': 'localhost',  
 'PORT': '3306', # Or 5432 for PostgreSQL  
 }  
}

# Step 6: Run Migrations

python manage.py makemigrations

python manage.py migrate

# Step 7: Create Superuser (Admin Panel)

python manage.py createsuperuser  
- Enter a username, email, and password.  
- Use these credentials to log in to the admin dashboard.

# Step 8: Run the Development Server

python manage.py runserver

Visit in your browser: http://127.0.0.1:8000/

# Step 9: Access Admin Panel

http://127.0.0.1:8000/admin  
Login with your superuser credentials to manage data.

# Step 10: Optional Deployment

- PythonAnywhere – Free for small projects  
- Heroku – Free & Cloud deployment  
- Render / DigitalOcean / Vercel – Advanced deployment

# Additional Tips

- Always activate the virtual environment before running the project.  
- Keep your database credentials secure.  
- Read any included README.txt for project-specific instructions.  
- Use django-crispy-forms or Bootstrap for enhanced UI.

# Footer Note

All Python Django projects on FinalYearProjectsHub are intended for learning and academic purposes only.  
We encourage students to study, practice, and modify the code for educational projects, not for commercial resale.