deti · universidade de aveiro
departamento de electrónica,
telecomunicações e informática

Informatics Engineering
Technologies and Web Programming

Lesson 06

Django Framework

➔ Deployment on Python Anywhere

1. Create an account in Python Anywhere.

2. In Python Anywhere:
   • add a new web app;
   • select Django Web Framework and Python 3.10;
   • give it a name – the same of the project you already have to deploy;
   • try to run it.

3. At this moment, Django version is not the latest one. Optionally, install it:
   • Go to "Consoles" tab and start a Bash console;
   • Run the command: mkvirtualenv myvirtualenv --python=/usr/bin/python3.10
   • Run check commands like: "which python" and "which pip";
   • Install new Django version, running command: pip install Django==4.2
   • Configure web app to use new virtual environment. Go to the "Web" tab, and in the Virtualenv section, enter the path: /home/myusername/.virtualenvs/myvirtualenv;
   • Reload your web app;
   • See all information on "https://help.pythonanywhere.com/pages/Virtualenvs".

4. Prepare you web project to be uploaded to pythonanywhere:
   • Make a copy of your web project, in your PC;
   • Move "static" folder from "app" folder to its parent folder;
   • Load it in pycharm, and go to "settings.py" file;
   • Copy the following constants from "settings.py" in pythonanywhere to your local "settings.py" file:
      • ALLOWED_HOST;
      • MEDIA_ROOT and MEDIA_URL;
      • STATIC_ROOT and STATIC_URL.

5. Now you have two options to copy your project to pythonanywhere:
   • You can simple upload your project files to the recent created web app in Python Anywhere – using the Files page;
   • OR you can use the Console page to use git tool to copy your project from a git repository.

6. Let use the first approach:
   • First, we will backup current original web app files; Go to your webproj folder, in pythonanywhere, create a new folder named "original" and move there current "static"

and "webproj" folders, as also the file named "manage.py";
- Create a zip file with files and folders of your webproj in your PC and upload it to pythonanywhere, inside webproj folder;
- In a bash console, inside the webproj folder, run the command: unzip webproject.zip;
- Go to "Web" tab and reload the web application;
- It's done. Run your web application, and enjoy it. ☺