

Got Goat Chapter 1

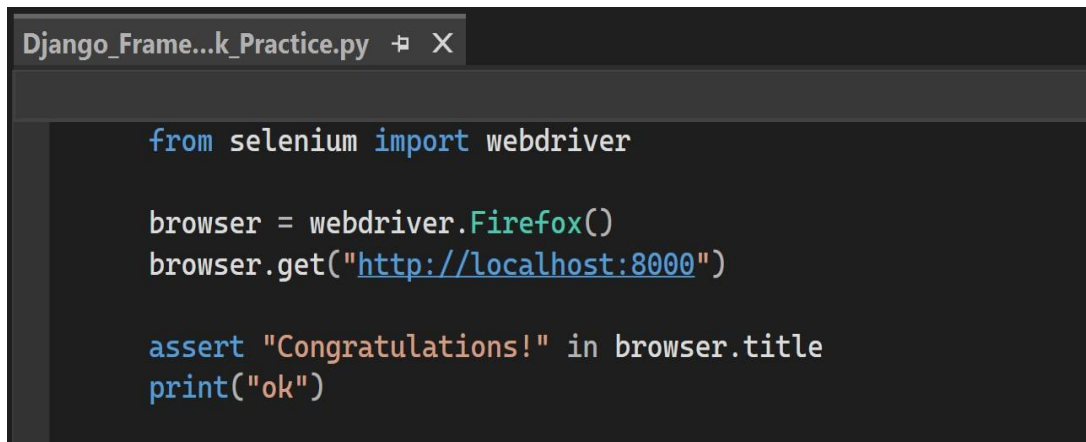
We will take a dive into the wonderful world of web development using python with the popular web framework Django. Also, we will build a web application using selenium for the browser automation tool. Content was provided with aid from the [book](#) *Test-Driven Development with Python*.

1. Prerequisites

- a. Visual Studio
- b. Create a New Project in Visual Studio
- c. Activate Virtual Environment
- d. Pip install django
- e. Pip install selenium

2. Functional Test

- a. Create a new python file
- b. Insert the code below

A screenshot of a code editor window titled 'Django_Frame...k_Practice.py'. The code is written in Python and uses Selenium WebDriver to interact with a web browser. The code includes imports, browser initialization, a GET request to a specific URL, and assertions to verify the page title and print a confirmation message.

```
from selenium import webdriver

browser = webdriver.Firefox()
browser.get("http://localhost:8000")

assert "Congratulations!" in browser.title
print("ok")
```

c.

3. Install Django configuration package

- a. Open up the terminal inside Visual Studio. The current directory should be before the prompt. Insert the code below in your working directory

- b. `django-admin startproject superlists .`

```
PS C:\Users\ \Django\Django_Framework_Practice> django-admin startproject superlists .
```

- c.

4. Deploy our first Django application

- a. Open up a Power Shell window and navigate to the working directory. Insert the code below.
- b. `python manage.py runserver`

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

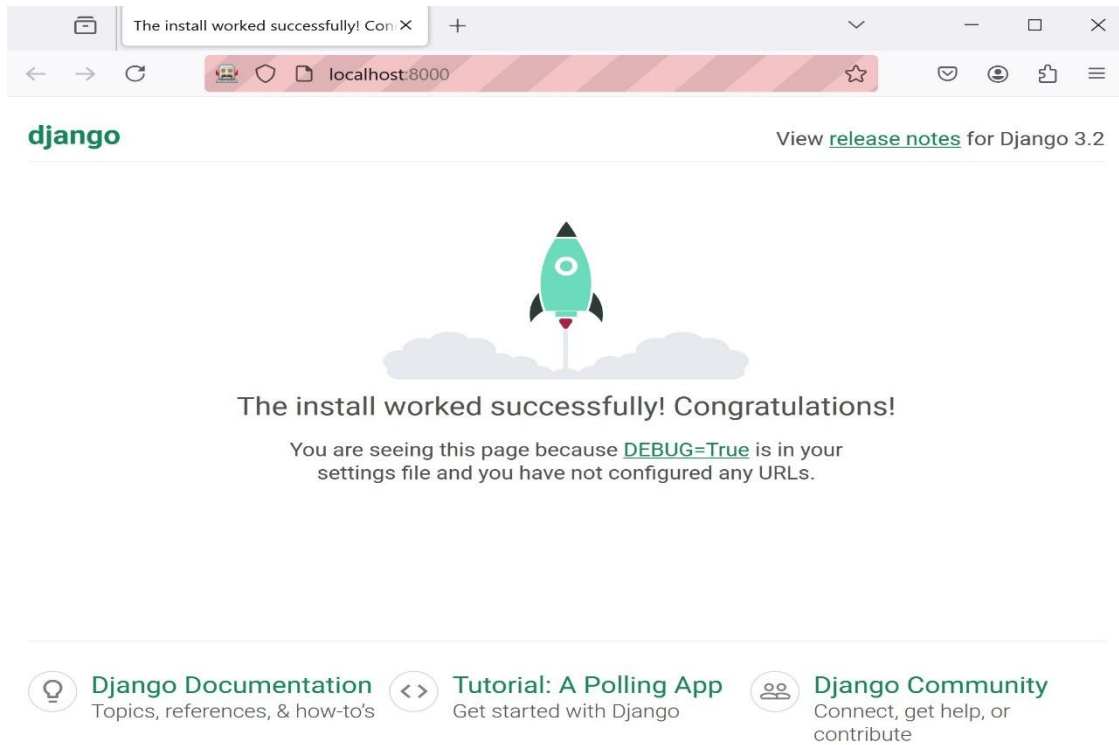
PS C:\Users\ > cd \Django\Django_Framework_Practice
PS C:\Users\ Django\Django_Framework_Practice> python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

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.
October 23, 2024 - 10:23:32
Django version 3.2.6, using settings 'superlists.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

- c.

- d. The files in the superlist are used to configure the Django server. The above shows that the server is listing on local host 8000. Navigating back to our open project, we can now execute the functional test code written above in our python file.



e.

- f. Our python file contains a print statement as a functional test to ensure to program completed successfully.