



Web Application with Django Workshop



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Workshop Overview and Components

Individuals will participate in a workshop to learn about how to create a web application using Python, HTML, and the Django web framework. This workshop will be an interactive workshop where the presenter will code along with everyone. Due to the limited amount of time, it is important to read this document and be as prepared as possible so that we do not fall behind. The plan is to use a lot of Python and Django magic to make a fully functional web application by the end.

Team Composition

Individuals or teams of 2 students can register for this workshop.

Skills

No prior knowledge is expected. However, any experience with the Python programming language, basic HTML, and a terminal will be helpful. The workshop will go fast with little time for playing catch up.

Helpful Skills

- Python Programming Language Basics
- Hyper Text Markup Language (HTML)
- Familiarity with using a terminal such as Windows Command Prompt or GitBash

Schedule

See the conference schedule for workshop time and place.

Check in will begin 15 minutes before the workshop begins

Resources

- Windows Laptop (No time to help Mac and Linux people).
- Python 3.13 installed on your machine. More recent versions may not work. When installing, be sure to add Python to the PATH. You will need to be able to run Python from the terminal.
 - <https://www.python.org/downloads/release/python-3118/>
- A Text Editor – VS Code is recommended.
 - <https://code.visualstudio.com/download>
- Some helpful VS Code extensions. They are installed from inside VS Code.
 - How-To: <https://code.visualstudio.com/docs/editor/extension-marketplace>
 - Extensions to install:
 - Django - Baptiste Darthenay
 - Python - Microsoft
 - Pylance - Microsoft
 - Black Formatter - Microsoft
- An Internet Browser – Chrome, Firefox, or Edge.
- Windows Command Prompt (built-in) or GitBash (available by installing Git for Windows).
 - <https://gitforwindows.org/>