Installation/Deployment Manual for UnitPylot

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1. Introduction

This document outlines the steps required to install/deploy **UnitPylot**. Follow these instructions to ensure a smooth installation/deployment process.

2. Prerequisites

- npm installed.
- Access to the Visual Studio Code Marketplace.
- Access to Copilot: To use any GitHub Copilot extension in Visual Studio Code, you need either an active Copilot subscription (such as Copilot Pro, Copilot Enterprise, or Copilot Business).
- Visual Studio Code should be installed.
- Copilot in Visual Studio Code: Follow this if not yet set-up GitHub Copilot Setup Guide

2.1 Overview

- 1. Make sure you have the GitHub Copilot activated in VS Code Follow the link above if you need assisstance.
- 2. Add our extension by searching for "UnitPylot" in the VS Code Extension Marketplace or from Source.
- 3. Download an **example codebase** as below to try out our extension!

3. Installation Process

3.1 From the Marketplace

1. Open VS Code.

- 2. Search for **UnitPylot** in the VS Code Marketplace.
- 3. Click Install to add the extension.

3.2 Build From Source

To build UnitPylot from source, follow these steps:

1. Clone the repository:

```
git clone https://github.com/ucl-syseng-tools-for-vscode/UnitPylot.git
cd UnitPylot
```

2. Install the dependencies:

```
npm install
```

3. Compile the extension:

```
npm run compile
```

4. Open the project in Visual Studio Code:

```
code .
```

Please note you may encounter something similar to the image below during the npm install step. However, this can be ignored.

```
64 packages are looking for funding run `npm fund` for details

6 vulnerabilities (4 moderate, 1 high, 1 critical)

To address issues that do not require attention, run: npm audit fix

To address all issues (including breaking changes), run: npm audit fix —-force

Run `npm audit` for details.
```

4. Deploying to the Marketplace

Publishing the Extension From Source Code

Please note that UnitPylot is already available on the VS Code Extension Marketplace. However, if you need to publish an extension like UnitPylot, follow these instructions:

To package the extension:

1. Run vsce package This should create a .vsix file which can be installed in VS Code.

To publish the extension:

- Link the azure devops organisation using your personal access token by running vsce login <publisher_id>
- 2. Run vsce publish This should push the extension to the marketplace.

For further and more comprehensive instructions, please use this link: Publishing an Extension

5. Launching the Extension

To begin using UnitPylot, follow these steps:

- Press F5 OR open the Command Palette (Shift + Command + P) and run Debug: Start Debugging.
- 2. Open one of the projects within the **example-codebases** folder.
- 3. Run the make.sh file to create a **virtual environment (venv)** to run the project within *OR* ensure that you have the necessary dependencies installed by running: pip install pytest pytest—cov pytest—json—report pytest—monitor.

```
PROBLEMS DEBUG CONSOLE TERMINAL PORTS COMMENTS

Using cached coverage-7.7.0-cp311-cp311-macosx_11_0_arm64.whl (211 kB)
Building wheels for collected packages: expense_tracker
Building editable for expense_tracker (pyproject.toml) ... done
Created wheel for expense_tracker: filename=expense_tracker-0.1.0-0.editable-py3-none-any.whl size=2884 sha256=14826bd62ef611c9f
68aa03e4303b7300fd7e4aeb411825b2Zad69d078dcb407
Stored in directory: /private/var/folders/Zan/fwttbmnd4t9_6ybm23m2td8m0000gn/T/pip-ephem-wheel-cache-ahvj0ceu/wheels/cc/d4/33/a43
94710c259959abf436f378e546d6bacb486d2281465d8e5
Successfully built expense_tracker
Installing collected packages: wheel, urllib3, psutil, pluggy, packaging, iniconfig, idna, coverage, charset-normalizer, certifi, requests, pytest, memory-profiler, pytest-monitor, pytest-metadata, pytest-cov, expense_tracker, pytest-json-report
Successfully installed certifi-2025.1.31 charset-normalizer-3.4.1 coverage-7.7.0 expense_tracker, pytest-json-report
Successfully installed certifi-2025.1.31 charset-normalizer-3.4.1 coverage-7.7.0 expense_tracker-0.1.0 idna-3.10 iniconfig-2.0.0 m
emory-profiler-6.61.0 packaging-24.2 pluggy-1.5.0 psutil-7.0.0 pytest-8.3.5 pytest-cov-6.0.0 pytest-json-report-1.5.0 pytest-metad
ata-3.1.1 pytest-monitor-1.6.6 requests-2.32.3 urllib3-2.3.0 wheel-0.45.1

[notice] A new release of pip is available: 23.2.1 → 25.0.1

[notice] To update, run: pip install —upgrade pip

Ln 5, Col 32 Spaces: 4 UTF-8 LF () Python 63 3.11.6 (venv')  © Go Live C
```

Ensure that the project is running in the created venv after running the make.sh bash script.

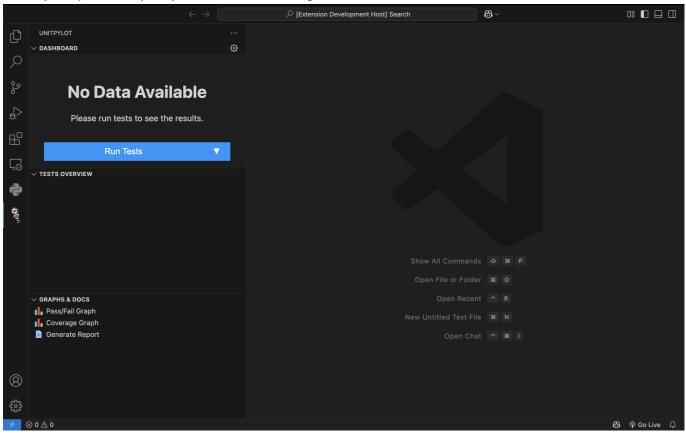
6. Testing out the Extension: Clone the example-codebases Repository

You can use some of our example codebases to see UnitPylot in action. Clone this repo below to do so.

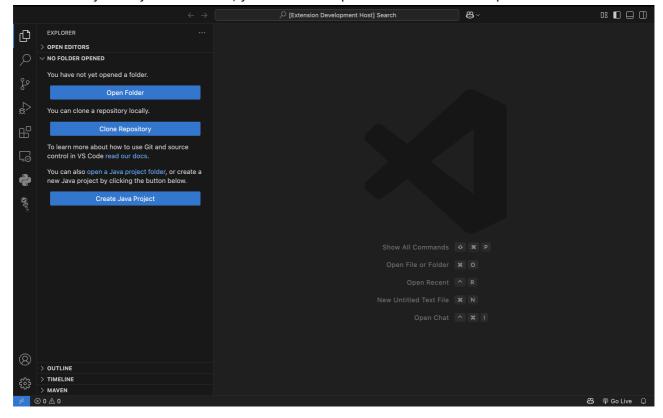
```
git clone https://github.com/ucl-syseng-tools-for-vscode/example-
codebases.git
```

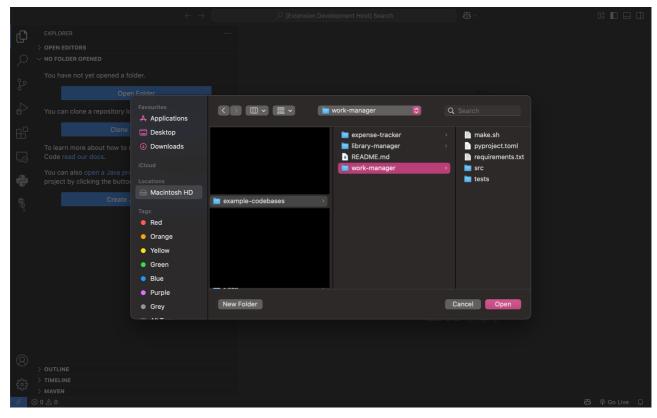
7. Steps to get started with UnitPylot

When you open UnitPylot, you will see something like this:

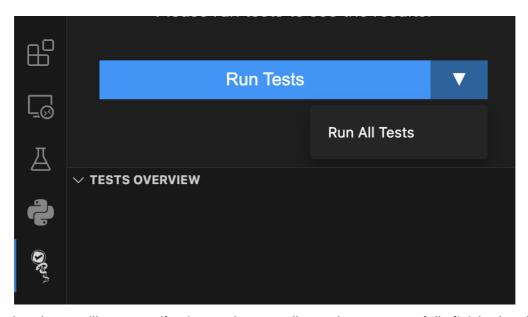


1. To use UnitPylot on your codebase, you must first open a folder in the workspace.

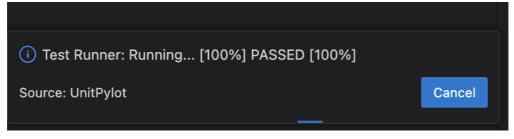




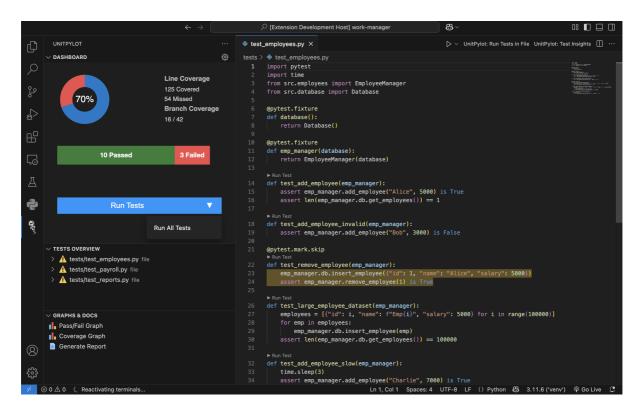
2. You must then click Run all tests in order for the Dashboard to correctly load.



3. Once completed, you will see a notification to alert you all tests have successfully finished and the Dashboard should be filled!



Progress notification after running all tests



Now you are ready to use UnitPylot!