# Set Up for Developers

1. Ask Venki to invite you as a collaborator on the GitHub repository. Accept the invite.
2. Install VS Code
3. Install latest Python 3.13+
4. Install the Basic Git software
5. Inside VS code install extensions: GitHub Copilot, GitHub Repositories, GitHub Pull Requests, see below:
6. A screenshot of a computer

   AI-generated content may be incorrect.
7. Inside VS code, Shift+Control+P (pallete), and search for GitHub: Clone
8. Clone the ‘LUMA\_Timesheet\_Automation’ repository. You should see the below:

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1. Click on main.py and you should see the code as below:

A screen shot of a computer program

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1. Open a new Terminal Window:

A screen shot of a computer

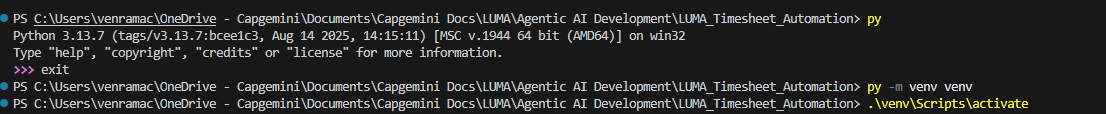
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1. Make sure you are in the dir where you cloned the repository: With ‘dir’ cmd should see

A screenshot of a computer

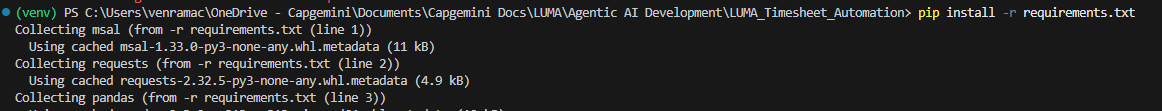
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1. Create a virtual environment using:



Once the venv is created, you should activate it using the above ‘activate’ cmd

1. Your prompt in the terminal should have, the green (venv) text in front as seen here:

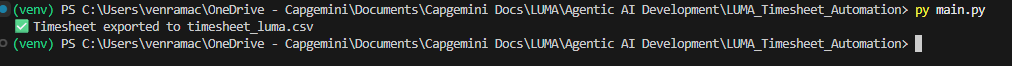


1. Install all the packages needed for the tool using the above pip command
2. The final packages when installed should show the below screen

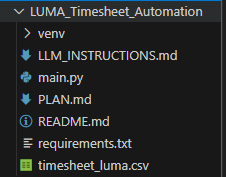
A black screen with white text

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1. Run the main.py command using:



1. You should see the csv file created in the file system as below:



1. Open it up and you should see:

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1. Make sure you have some Outlook meeting entries titled ‘LUMA Timesheet Entry’ and some text in the body.
2. Make some changes to the main.py code and save the file ‘Control-S’:
3. Do a ‘git status’ as below:

A computer screen with white text

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1. It shows that there were changes in the repo dir. Main.py had changes and a new file ‘timesheet\_luma.csv’ got added (output of our py run)
2. Just check in the changes to the py code:

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1. You added (add) using the git add command. You committed and provided a message using the ‘git commit’ cmd and then finally pushed the changes to the remote repo using ‘git push’.
2. Changes you pushed are visible in the GitHub web site account folder as below:

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1. Congratulations, your laptop is now set to develop python applications using VS Code.

# Mount the SharePoint Folder on your Windows Explorer

We need to mount the SharePoint directory for our project LUMA since Munish/Ben create the common list of all meetings in a shared folder there. We need to access that file and use its entries in our own timesheet.

Start with going to the following folder in the IE browser

A screenshot of a computer

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Click on the three horizontal dots besides ‘Edit in grid view’

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Click on the ‘Sync’ menu as shown above, Let it do its thing and you should see in your MS Explorer

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Expand the one for ‘Task and Time Keeping for LUMA’ by clicking on the arrow to its left, you should see all our timesheets as below:

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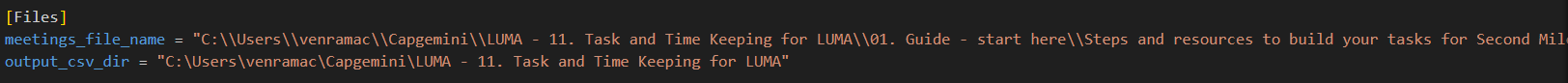
The folder where the common meeting list is saved in a xls is under ’01. Guide – start here’ as shown below:

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This is the directory and file name we will use in the python code so that we don’t have to copy or download this to our local drive. Just mount the SharePoint and use the code.

Check the config.ini file to make sure the dir and file names are correct



The latest main.py code as of 09/23/2025 uses this file in SharePoint and creates our timesheet also in the SharePoint folder that is mounted on our Explorer

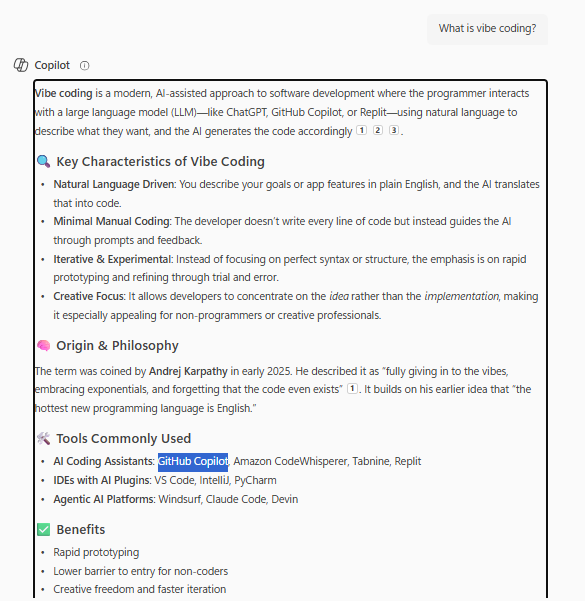
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# Vibe coding Start

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/asyncpr

├── PLAN.md # Must-haves, nice-to-haves, out-of-scope

├── LLM\_INSTRUCTIONS.md # Prompts and guidance for AI agents

├── /src

│ ├── /backend # FastAPI or Spring Boot

│ ├── /frontend # React or Blazor

│ └── /shared # Common utilities

├── /evals

│ ├── image-processing-eval.md

│ ├── business-name-detection-eval.md

│ └── feedback-generation-eval.md

├── /tests # User journey validations

├── /docs # API specs, schemas, business rules

├── /scripts # Utility scripts

├── /mcp-servers # Local server configs for Claude

└── README.md

**Workflow Steps**

**1. Define the Vision**

* Write a clear **PLAN.md** with goals and constraints.
* Include **user stories** and **acceptance criteria**.

**2. Start with Evaluations (Evals)**

* Define what “good” output looks like before coding.
* Examples:
  + Receipt image → Extracted business name
  + Business name → Valid business email
  + Customer feedback → Structured JSON

**3. Prompt GitHub Copilot**

* Use natural language like:

“Create a FastAPI endpoint that accepts a receipt image and returns the business name.”

* Let Copilot generate the code, then refine iteratively.

**4. Use Claude for Planning**

* Ask Claude to:
  + Review architecture
  + Suggest refactors
  + Validate business logic

**5. Build Section-by-Section**

* Implement one feature at a time.
* Validate against Evals.
* Commit only when it passes.

**6. Containerize & Orchestrate**

* Use Docker to containerize backend and frontend.
* Optionally orchestrate with Docker Compose or Kubernetes.

**🧠 Mindset Tips**

* Treat AI tools like **interns**: powerful but needing guidance.
* Reset early if AI output drifts.
* Keep Git branches clean and use GitHub Actions for validation.
* Refactor relentlessly for clarity and modularity.

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I saved the Plan.md and LLM\_instructions.md in my local file system for later use

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**🚀 Next Step: Set Up Your Environment**

Would you like help setting up:

1. A **Python project** in VS Code with GitHub Copilot?
2. **Microsoft Graph API access** (app registration, permissions)?
3. A **starter script** to fetch and filter meetings?

Let me know which you'd like to tackle first, and I’ll guide you through it!

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Follow all the instructions, they take up a lot of time if you are already familiar with coding in python using VS Code.

1. Installed VS code

2. Installed latest python in my Cap laptop

A yellow object with text

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3. Installing GitHub desktop gave me a lot of problems. Not sure what I did wrong.

A screenshot of a computer error

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Finally installing only Git not Github desktop

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Why did I install this? Probably need to keep it running in the background

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Install just Git from: <https://git-scm.com/download/win> (accepted all defaults)

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Exit and restart VS Code..error disappears

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A black background with white text

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Use Shift+Cntrl+P, get the pallet, Get the GitHub Copilot: Sign In

And sign in to your GitHB account. Now test the auto complete by creating a python code and see if it completes the code:

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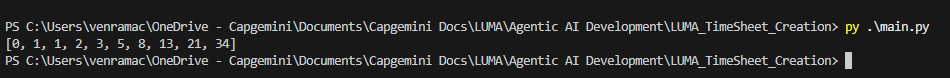
The greyed out text the code suggested by AI, Hit TAB to accept it.

All the suggested code gets accepted and it suggest the next ‘print line’

A screen shot of a computer program

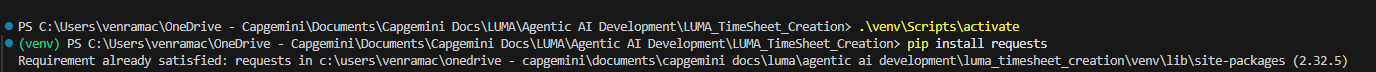
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Hit TAB, Control+S to save the file and run it in the terminal.



Congrats, you created the first py code with GitHub Copilot suggesting all the code and tested it and it ran correctly.

Check if the path is set and the venv is always activated before you start coding



(venv) in green should be in front of the prompt.

Next Steps:

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A computer screen shot of a computer screen

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A computer screen with a blue suitcase on it

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**Mount SharePoint web site as a network drive in your laptop:**

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# Integrating with Sharepoint

1. Check if One Drive is loaded and working.
2. Click on the “…” besides the high level dir ‘LUMA – LUMA AMI HES”
3. Click on Sync…You should see this on your File Explorer
4. A screenshot of a computer

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5. The Sharpoint site is mounted on your File Explorer and one can access the files and dir as if it is on your local drive.

# Debugging Outlook

Upgraded to the latest Outlook and the version #s is below….

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**Recommended Alternative: Microsoft Graph API**

Since COM automation is deprecated in the New Outlook, Microsoft recommends using the **Microsoft Graph API**, which is:

* **Cloud-based** and works with both desktop and web versions of Outlook.
* **Secure and modern**, using OAuth2 for authentication.
* Capable of accessing **emails, calendar events, contacts**, and more.

**Example: Reading Emails with Microsoft Graph API**

You can use the official Python SDK:

You'll need to:

* Register an app in **Azure Active Directory**.
* Get **client ID**, and set up permissions (like Mail.Read, Calendars.Read).
* Use DeviceCodeCredential or AuthorizationCodeCredential for authentication

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**🛠️ Other Options**

If you're in a corporate environment and still have access to the **classic Outlook desktop app**, you can:

* **Revert to the older version** (if allowed by your IT admin).
* Use win32com as before.

But long-term, Microsoft is phasing out the classic client, so Graph API is the future-proof solution.