

Flashcard Genius — Setup Instructions

1. Download the Project Files

- Save and unzip the project folder “FlashGenius”.

2. Open the Project in VS Code

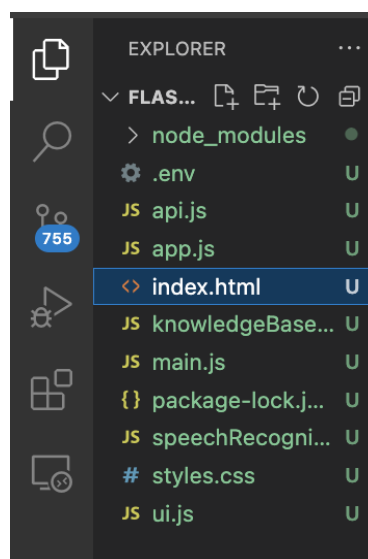
- Open **Visual Studio Code**.
- Go to **File** → **Open Folder**.
- Select the project folder “FlashGenius”


3. Install "Live Preview" Extension (if not installed)

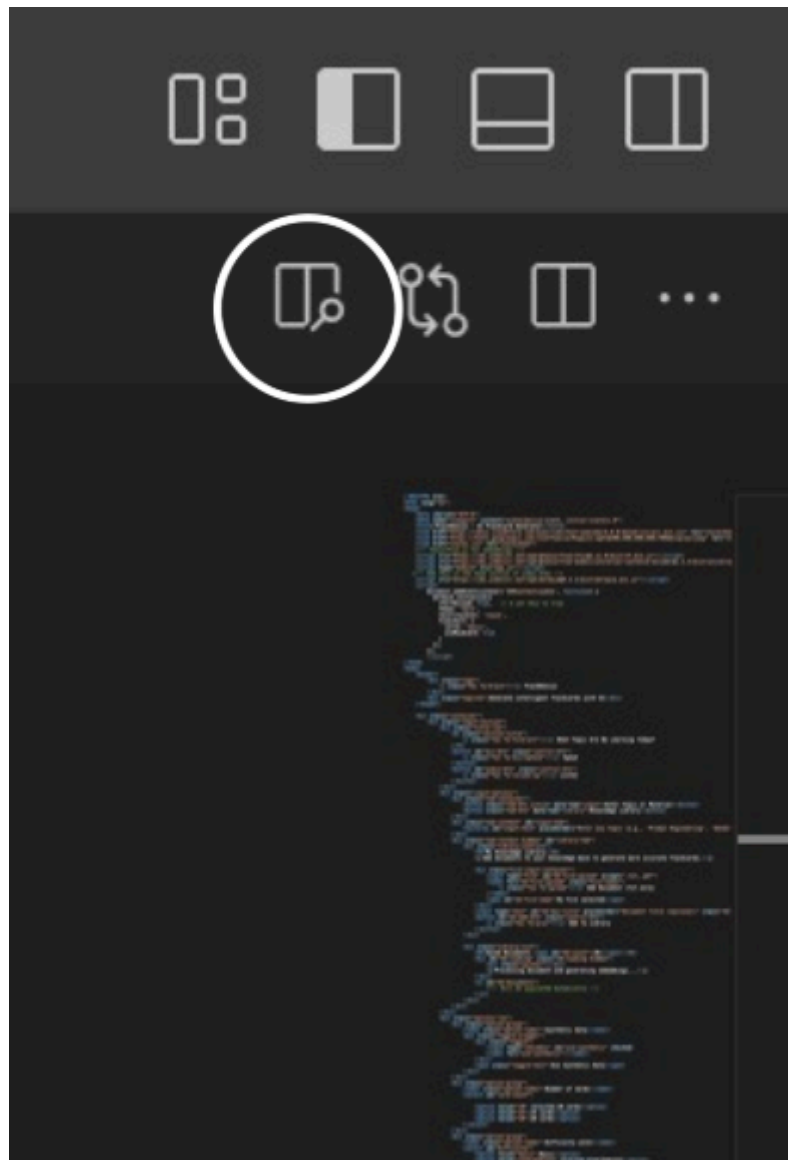
- Click the **Extensions** icon (**Ctrl+Shift+X**).
- Search **Live Preview** (by **Microsoft**).
- Click **Install**.

4. Open and Preview **index.html**

- In the Explorer sidebar, click on **index.html**



- Click the **"Live Preview"** button at the top-right (a small plug  icon)



- The project will open in a new tab inside VS Code.
- You can either preview the project directly within VS Code or copy the URL from the Live Preview tab and open it in your browser.

5. Test Normal Flashcard Generation (Typing Input)

Locate the **"Enter Topic or Material"** text field.

Type: Prompt Engineering or anything you want

Adjust the settings:

- **Number of Cards:** Select **10 cards** from the dropdown.
- **Difficulty Level:** Select **Intermediate**.

Leave **Synthetic Data** and **Knowledge Library** toggles **OFF** for now.

Click the **Generate Flashcards** button.

✓ Verify that a set of flashcards is generated below.

Test Flashcard Actions:

- Click the **Download** button to download the flashcards.
- Click the **Share** button to copy the flashcards to clipboard.

✓ Confirm that downloading and sharing work correctly.

6. Test Multimodal Integration (Speech Input)

- Click the **Speak** button (microphone icon) near the topic field.
- **Clearly say:**
→ **Differences between Deep Learning and Machine Learning or any topic like transformers in ai**
- ✓ Wait for the system to:
 - Transcribe your speech.
 - Auto-fill the topic field.
 - Auto-generate flashcards without clicking anything else.
- Click the **Listen** button (speaker icon) after flashcards are generated.
- ✓ Confirm that the flashcards are **read aloud** using text-to-speech.
- (Optional) Adjust your device's microphone/speaker settings if needed.

7. Upload a document (e.g., a Quantum Physics text) into the Knowledge Library.

- Click on the Knowledge Library tab.
- Upload a document (example: a **Quantum Physics** text file) into the Knowledge Library.
- Make sure to toggle ON the Use Knowledge Library switch.
- Go back to the Enter Topic tab.
- In the topic field, type: **Quantum Physics** (or anything relevant to your document).
- Click **Generate Flashcards**.
- ☒ Confirm that the flashcards are grounded in the uploaded document content, not generic.


☒ Confirm that flashcards are based on uploaded content.

8. Test Synthetic Data Generation

- In the topic field, type: **Transformers**.
- Toggle **Use Synthetic Data** to **ON**.
- Click **Generate Flashcards**.
- ☒ Confirm flashcards are generated normally.

After Generation:

- Look under each flashcard.
- Two new buttons should appear:
 - **Variations** button:
 - Click it.
 - ☒ See **alternative phrasings** and **reworded versions** of the flashcard.

- Purpose: Help the user learn the same concept from different linguistic perspectives.
- **Examples** button:
 - Click it.
 -  See **real-world examples**, **practical scenarios**, and **visual flowcharts** where the concept is applied.
 - Purpose: Bridge the gap between theory and real-world practice.