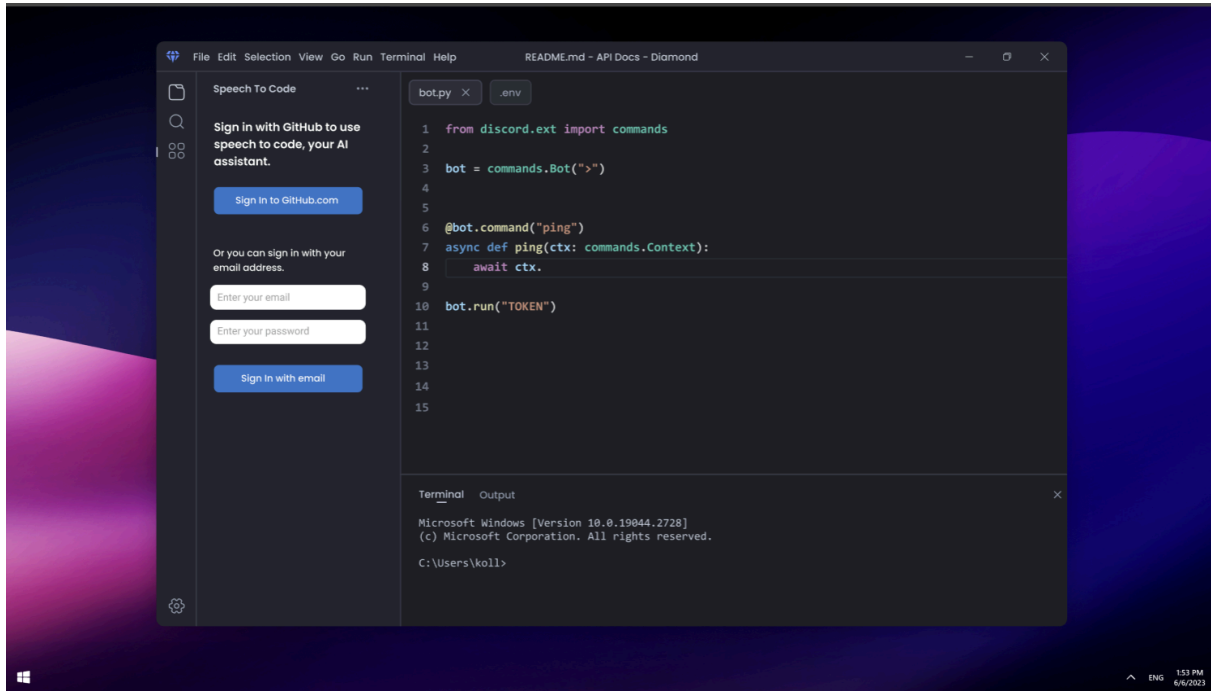


Speech to Code Prototype Design

Our group utilizes figma as the prototype tool, here is the link to the original prototype file:

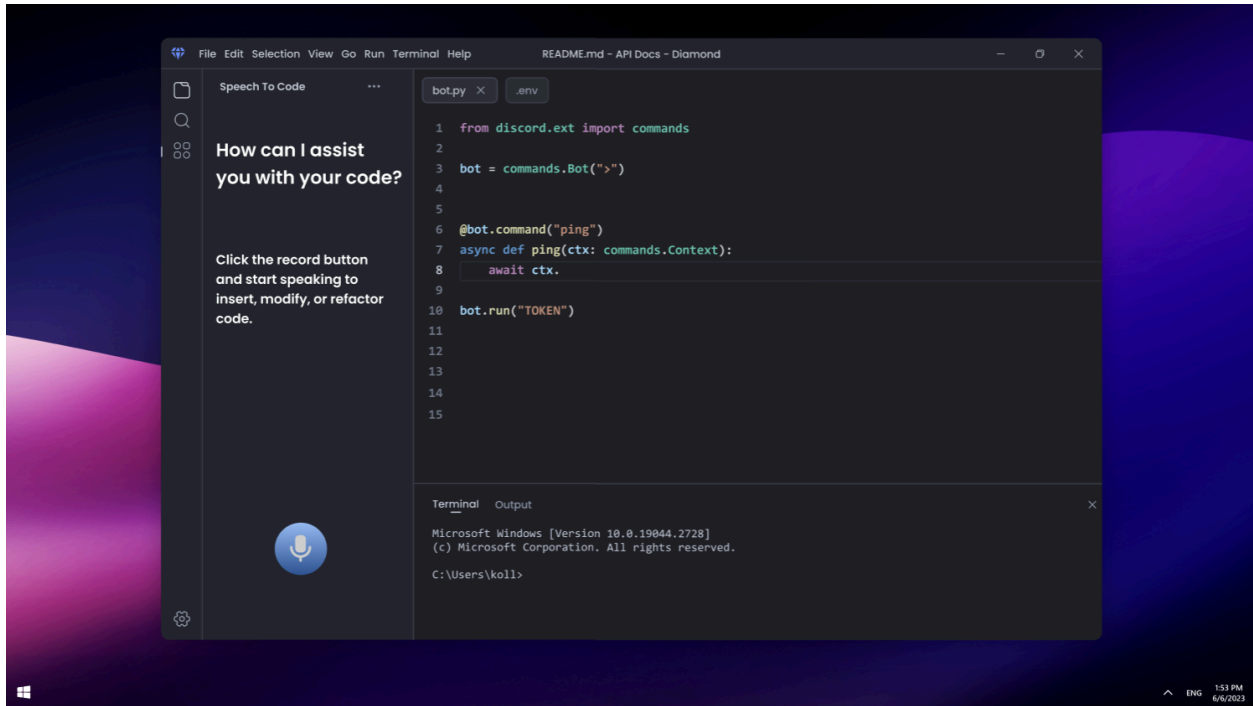
[Figma Design Link](#)

As shown in the image, the user needs to log in first to use this VSCode extension. The user will be recommended to log in using GitHub because VSCode has built-in support for GitHub login through its API. Besides that, users can also sign up and log in using their email.



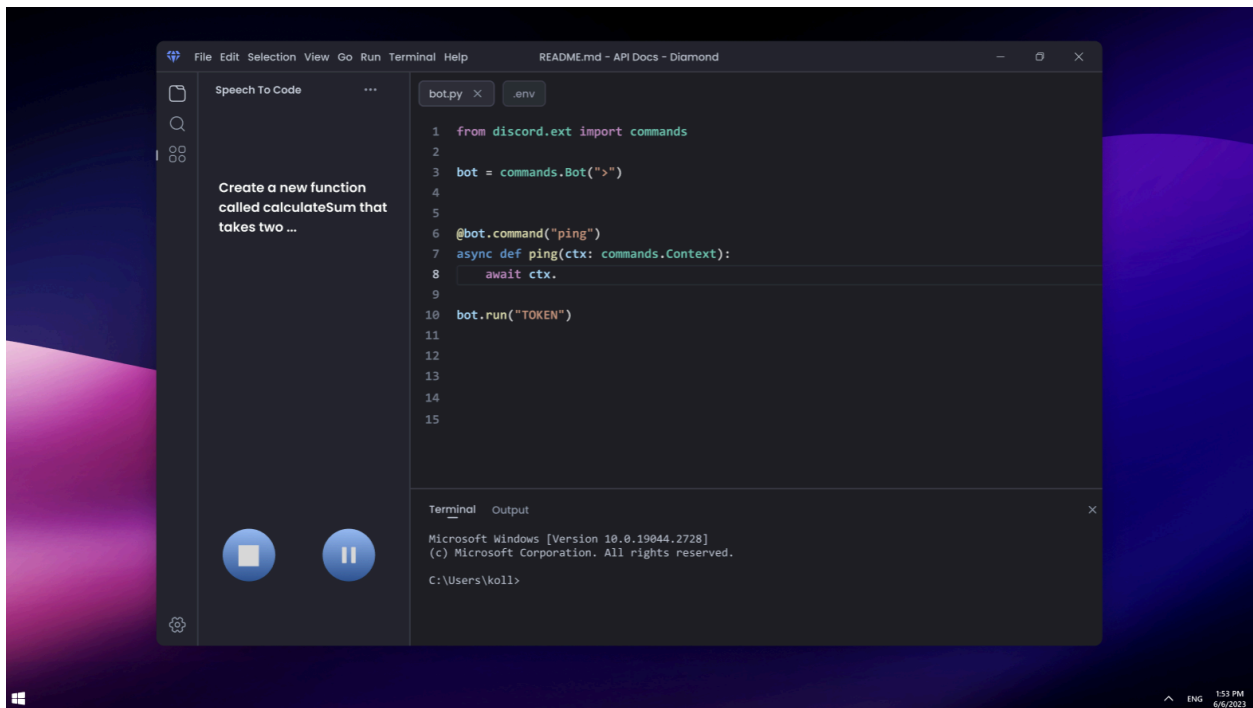
Prototype Design 1: Log In Page

After successfully logging in, users can start recording by clicking the blue record button.



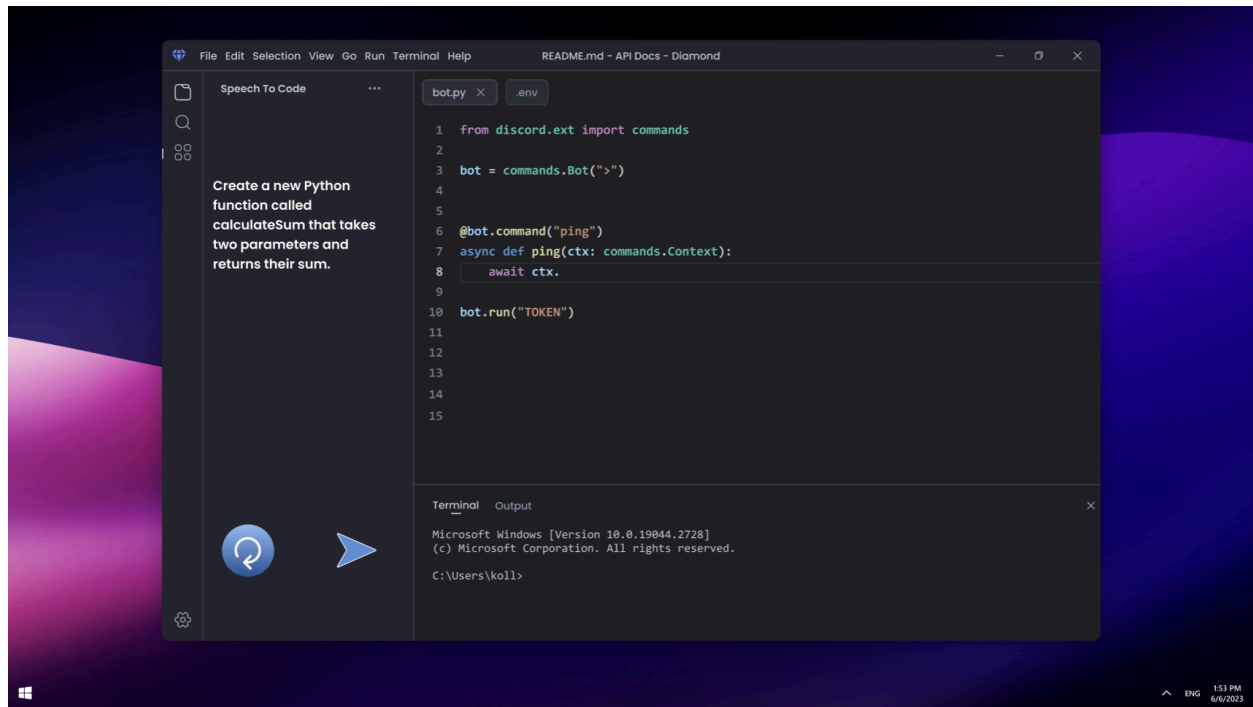
Prototype Design 2: Before Recording

The following page shows the process where the extension converts the user's speech to text. What the user says will be displayed in real-time subtitles on the left panel. The user can also pause or stop the recording by clicking the pause or stop buttons.



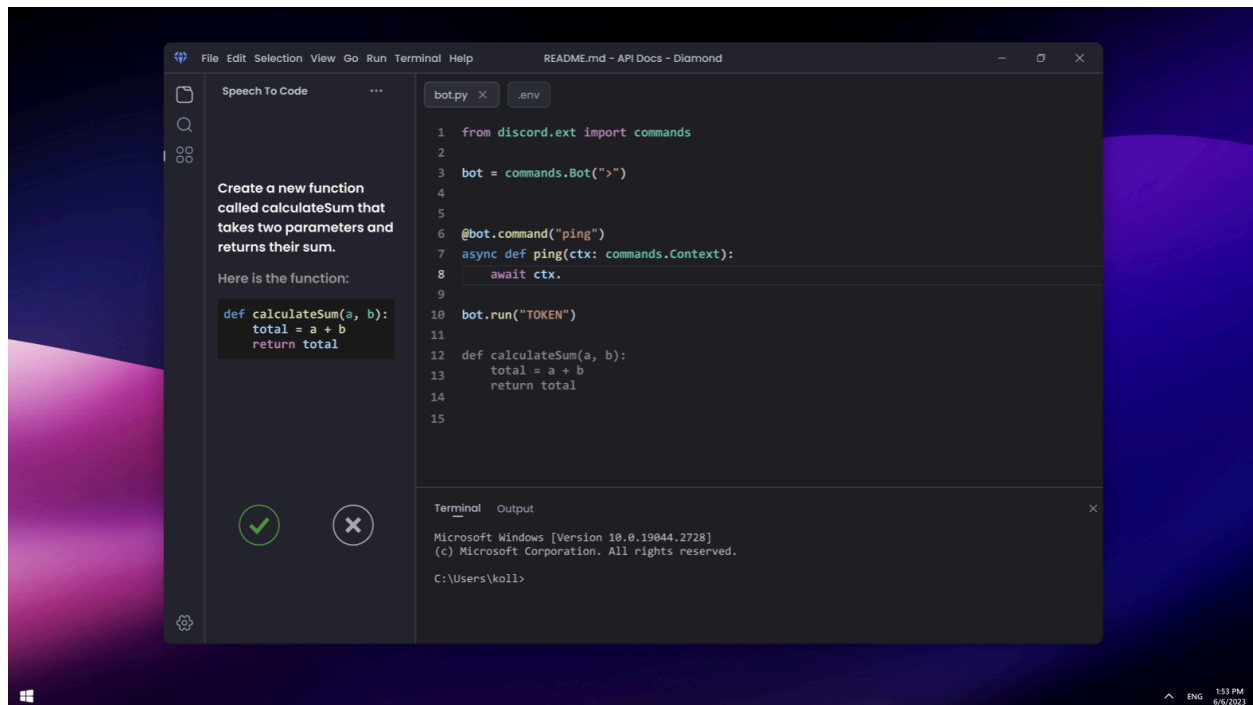
Prototype Design 3: Recording

After the user clicks the stop button to end the recording, they can choose to record again or send it directly to the backend service for processing.



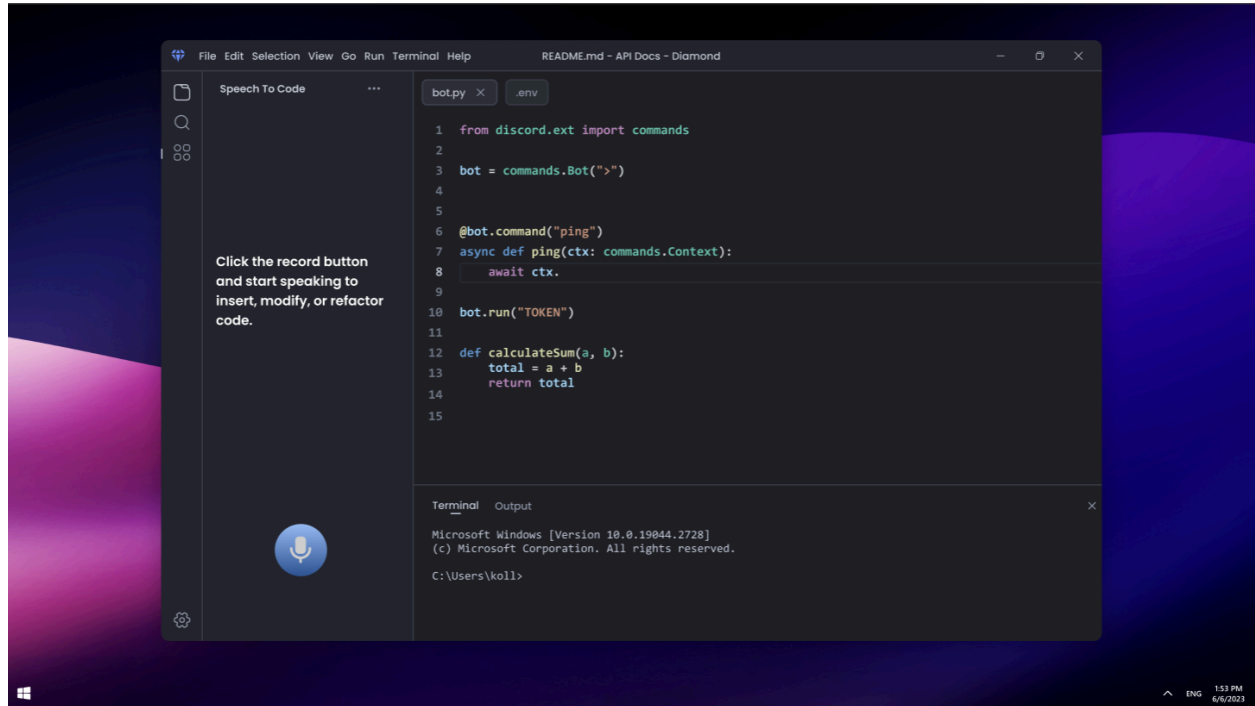
Prototype Design 4: Finish Speaking

After the backend model processes the code, a gray suggestion will appear either in the left sidebar or in the code file on the right. The user can choose to accept or reject the AI's suggestion.



Prototype Design 5: Whether to Accept or Reject

Once the user clicks confirm, the new code will automatically be added to the original code file. If it involves deleting or modifying code, clicking confirm will also automatically update the original code file.



Prototype Design 6: Accept Result