To debug a Flowise application using Visual Studio Code, you need to **set up a debugging configuration within VS Code, typically by enabling the "Debug" mode within the Flowise application itself**, which will allow you to set breakpoints in your code and step through execution to identify issues; you can also leverage the Flowise logs and console output to further analyze errors. [[1](https://code.visualstudio.com/docs/editor/debugging), [2](https://www.restack.io/p/dify-answer-flowise-debug-cat-ai), [3](https://github.com/FlowiseAI/Flowise/issues/302), [4](https://docs.flowiseai.com/configuration/environment-variables#:~:text=You%20can%20set%20all%20these%20variables%20when,For%20example:%20npx%20flowise%20start%20%2D%2DPORT=3000%20%2D%2DDEBUG=true.), [5](https://github.com/FlowiseAI/Flowise/issues/3908)]

**Key steps: [**[**6**](https://www.youtube.com/watch?v=vmKLAeyLXy8)**,** [**7**](https://medium.com/business24-ai/using-flowise-with-langsmith-8217f14f8c59)**,** [**8**](https://docs.flutter.dev/tools/devtools/vscode#:~:text=Start%20a%20debug%20session%20for%20your%20application,Run%20%3E%20Start%20Debugging%20(%20F5%20).)**]**

* **Open your Flowise project in VS Code:** Navigate to the root directory of your Flowise project in VS Code. [[6](https://www.youtube.com/watch?v=vmKLAeyLXy8), [7](https://medium.com/business24-ai/using-flowise-with-langsmith-8217f14f8c59), [8](https://docs.flutter.dev/tools/devtools/vscode#:~:text=Start%20a%20debug%20session%20for%20your%20application,Run%20%3E%20Start%20Debugging%20(%20F5%20).)]
* **Configure the launch.json file:** [[1](https://code.visualstudio.com/docs/editor/debugging), [2](https://www.restack.io/p/dify-answer-flowise-debug-cat-ai), [9](https://github.com/esfandiar/vs-code-spring-boot-setup#:~:text=How%20to%20debug.%20Run%20the%20%22debug%22%20task,select%20%22Debug%2D%3EContinue%20without%20scanning%20the%20task%20output%22.)]
  + Open the "Run and Debug" view in VS Code (usually by clicking on the "Debug" icon on the left sidebar). [[1](https://code.visualstudio.com/docs/editor/debugging), [2](https://www.restack.io/p/dify-answer-flowise-debug-cat-ai), [9](https://github.com/esfandiar/vs-code-spring-boot-setup#:~:text=How%20to%20debug.%20Run%20the%20%22debug%22%20task,select%20%22Debug%2D%3EContinue%20without%20scanning%20the%20task%20output%22.)]
  + Click on the gear icon to create a new launch configuration. [[1](https://code.visualstudio.com/docs/editor/debugging), [10](https://github.com/golang/vscode-go/wiki/debugging), [11](https://www.youtube.com/watch?v=uehCDW1fxUw)]
  + Select "Node.js" as the environment and ensure the "program" field points to the appropriate Flowise start script (usually "node" followed by the path to your Flowise entry point). [[1](https://code.visualstudio.com/docs/editor/debugging), [3](https://github.com/FlowiseAI/Flowise/issues/302), [4](https://docs.flowiseai.com/configuration/environment-variables#:~:text=You%20can%20set%20all%20these%20variables%20when,For%20example:%20npx%20flowise%20start%20%2D%2DPORT=3000%20%2D%2DDEBUG=true.)]
* **Enable debug mode in Flowise:** [[4](https://docs.flowiseai.com/configuration/environment-variables#:~:text=You%20can%20set%20all%20these%20variables%20when,For%20example:%20npx%20flowise%20start%20%2D%2DPORT=3000%20%2D%2DDEBUG=true.), [5](https://github.com/FlowiseAI/Flowise/issues/3908)]
  + When starting your Flowise application, use the --debug flag to activate debug mode. [[4](https://docs.flowiseai.com/configuration/environment-variables#:~:text=You%20can%20set%20all%20these%20variables%20when,For%20example:%20npx%20flowise%20start%20%2D%2DPORT=3000%20%2D%2DDEBUG=true.), [5](https://github.com/FlowiseAI/Flowise/issues/3908)]
  + Example command: npx flowise start --debug [[4](https://docs.flowiseai.com/configuration/environment-variables#:~:text=You%20can%20set%20all%20these%20variables%20when,For%20example:%20npx%20flowise%20start%20%2D%2DPORT=3000%20%2D%2DDEBUG=true.), [5](https://github.com/FlowiseAI/Flowise/issues/3908)]
* **Set breakpoints in your code:** [[1](https://code.visualstudio.com/docs/editor/debugging), [2](https://www.restack.io/p/dify-answer-flowise-debug-cat-ai), [11](https://www.youtube.com/watch?v=uehCDW1fxUw)]
  + In the VS Code editor, click on the line number where you want to set a breakpoint. [[1](https://code.visualstudio.com/docs/editor/debugging), [2](https://www.restack.io/p/dify-answer-flowise-debug-cat-ai), [11](https://www.youtube.com/watch?v=uehCDW1fxUw)]
* **Start debugging:** [[1](https://code.visualstudio.com/docs/editor/debugging), [8](https://docs.flutter.dev/tools/devtools/vscode#:~:text=Start%20a%20debug%20session%20for%20your%20application,Run%20%3E%20Start%20Debugging%20(%20F5%20).), [10](https://github.com/golang/vscode-go/wiki/debugging)]
  + Click the "Start Debugging" button in the "Run and Debug" view (or press F5). [[1](https://code.visualstudio.com/docs/editor/debugging), [8](https://docs.flutter.dev/tools/devtools/vscode#:~:text=Start%20a%20debug%20session%20for%20your%20application,Run%20%3E%20Start%20Debugging%20(%20F5%20).), [10](https://github.com/golang/vscode-go/wiki/debugging)]
* **Inspect variables and step through code:** [[1](https://code.visualstudio.com/docs/editor/debugging), [2](https://www.restack.io/p/dify-answer-flowise-debug-cat-ai), [11](https://www.youtube.com/watch?v=uehCDW1fxUw)]
  + Once the debugger is active, you can use the VS Code debugging controls to step through your code line by line, examine variable values, and analyze the execution flow. [[1](https://code.visualstudio.com/docs/editor/debugging), [2](https://www.restack.io/p/dify-answer-flowise-debug-cat-ai), [11](https://www.youtube.com/watch?v=uehCDW1fxUw)]

**Important Considerations: [**[**2**](https://www.restack.io/p/dify-answer-flowise-debug-cat-ai)**,** [**5**](https://github.com/FlowiseAI/Flowise/issues/3908)**]**

* **Flowise logging:** Use the Flowise logging system to capture important information about your application's execution, which can be helpful for debugging. [[2](https://www.restack.io/p/dify-answer-flowise-debug-cat-ai), [5](https://github.com/FlowiseAI/Flowise/issues/3908)]
* **Environment variables:** Ensure that any necessary environment variables are set correctly when running your Flowise application in debug mode. [[4](https://docs.flowiseai.com/configuration/environment-variables#:~:text=You%20can%20set%20all%20these%20variables%20when,For%20example:%20npx%20flowise%20start%20%2D%2DPORT=3000%20%2D%2DDEBUG=true.), [12](https://github.com/FlowiseAI/FlowiseDocs/blob/main/configuration/environment-variables.md)]
* **Debugging tools:** Utilize the debugging features provided by VS Code, such as the "Watch" window to monitor variable values and the "Debug Console" to interact with your application. [[1](https://code.visualstudio.com/docs/editor/debugging), [2](https://www.restack.io/p/dify-answer-flowise-debug-cat-ai), [11](https://www.youtube.com/watch?v=uehCDW1fxUw)]

*Generative AI is experimental.*

[1] <https://code.visualstudio.com/docs/editor/debugging>

[2] <https://www.restack.io/p/dify-answer-flowise-debug-cat-ai>

[3] <https://github.com/FlowiseAI/Flowise/issues/302>

[4] [https://docs.flowiseai.com/configuration/environment-variables](https://docs.flowiseai.com/configuration/environment-variables#:~:text=You%20can%20set%20all%20these%20variables%20when,For%20example:%20npx%20flowise%20start%20%2D%2DPORT=3000%20%2D%2DDEBUG=true.)

[5] <https://github.com/FlowiseAI/Flowise/issues/3908>

[6] <https://www.youtube.com/watch?v=vmKLAeyLXy8>

[7] <https://medium.com/business24-ai/using-flowise-with-langsmith-8217f14f8c59>

[8] [https://docs.flutter.dev/tools/devtools/vscode](https://docs.flutter.dev/tools/devtools/vscode#:~:text=Start%20a%20debug%20session%20for%20your%20application,Run%20%3E%20Start%20Debugging%20(%20F5%20).)

[9] [https://github.com/esfandiar/vs-code-spring-boot-setup](https://github.com/esfandiar/vs-code-spring-boot-setup#:~:text=How%20to%20debug.%20Run%20the%20%22debug%22%20task,select%20%22Debug%2D%3EContinue%20without%20scanning%20the%20task%20output%22.)

[10] <https://github.com/golang/vscode-go/wiki/debugging>

[11] <https://www.youtube.com/watch?v=uehCDW1fxUw>

[12] <https://github.com/FlowiseAI/FlowiseDocs/blob/main/configuration/environment-variables.md>