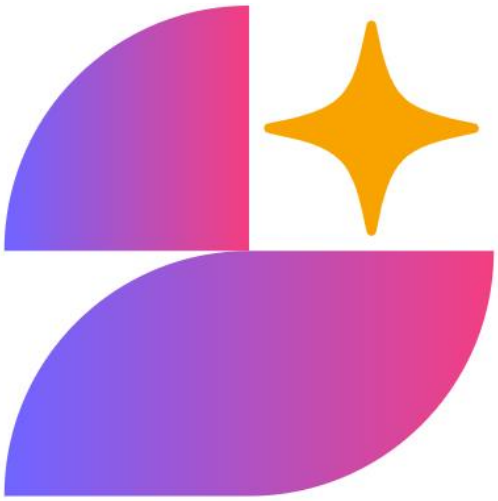

PROGRAM Genie

Plugins

Handbook

(ver1.03)

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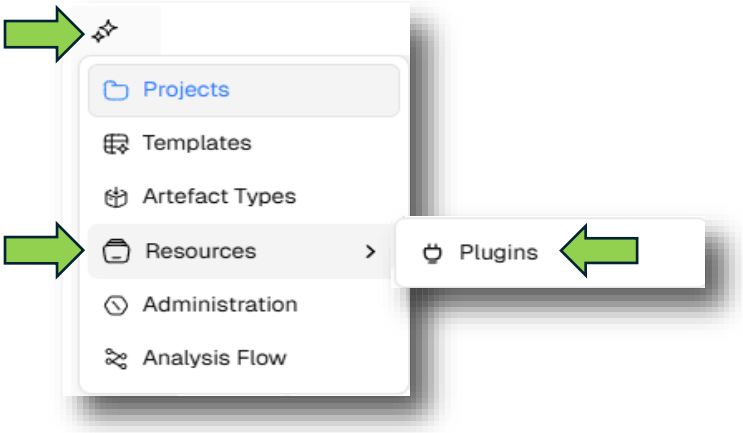
INTERNAL

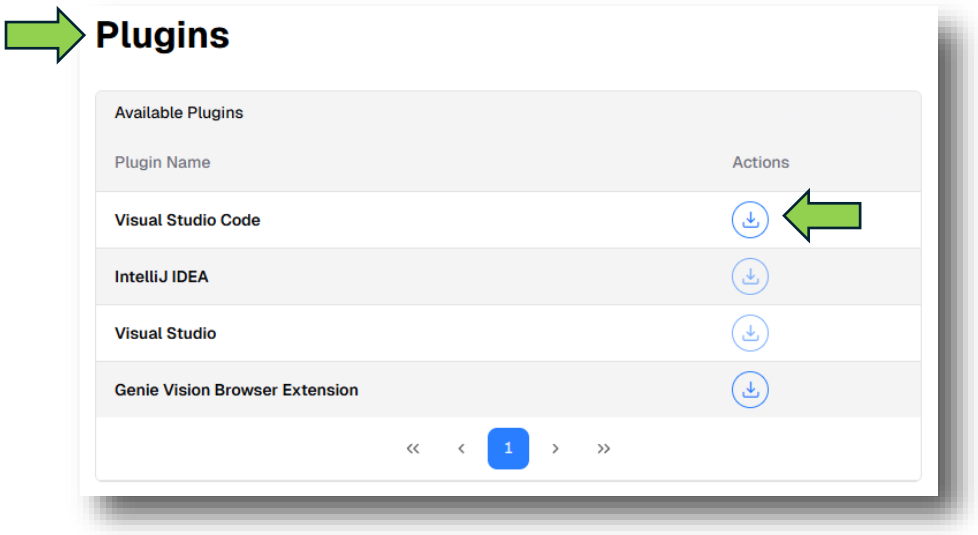
1 Download Plugins

ProgramGenie Plugins are available for download from within the ProgramGenie application.

1) On the ProgramGenie sidebar select the Genie icon and then
2) Select the Resources menu
3) The select the Plugins menu option



4) Observe the Plugins screen is displayed



5) Click on the download icon for the Plugin required
6) The Plugin will be downloaded and placed in the download folder

INTERNAL

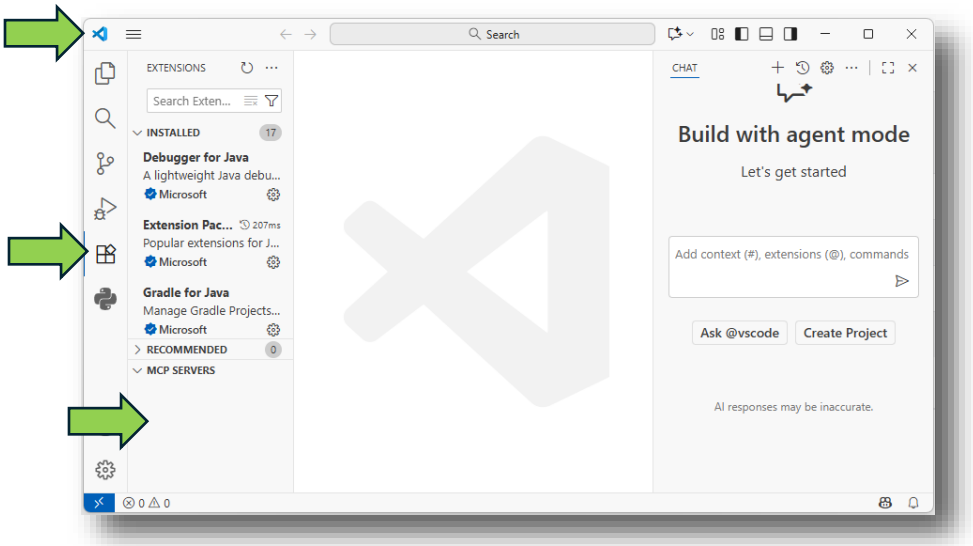
2 Visual Studio Code Plugin

2.1 Install & Configuration

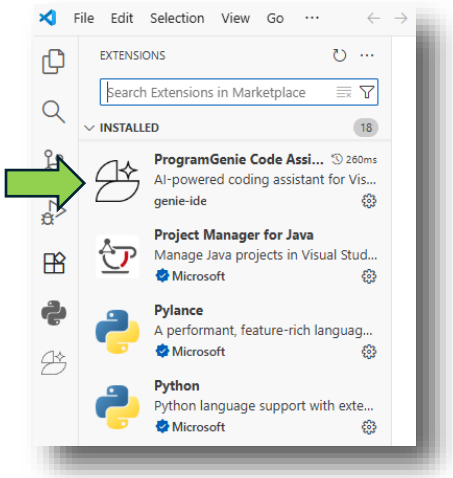
ProgramGenie VS Code Extension is an AI-powered assistant for Visual Studio Code, designed to streamline and accelerate software development. With ProgramGenie, developers and QA engineers can chat directly with an intelligent assistant to analyze code, generate new snippets, refactor existing code, ask for explanations, and get help with tricky bugs — all without leaving the editor.

To install the ProgramGenie Plugin for Visual Studio Code, take the following steps:

1) Open the Visual Studio application
2) On the sidebar click on the Extension (squares) icon

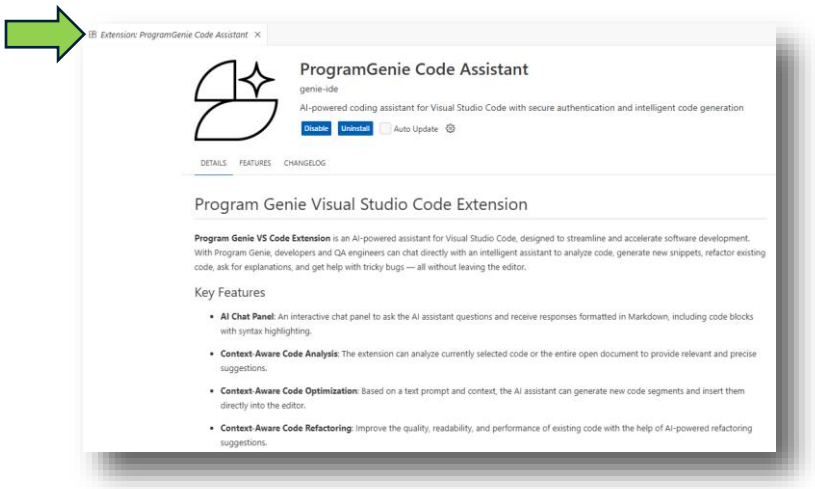


3) Drag an drop the downloaded Visual Studio Code plugin into the Extensions area
4) Observe that the ProgramGenie Visual Studio Code plugin has been added to the extensions list (you may need to search for it)

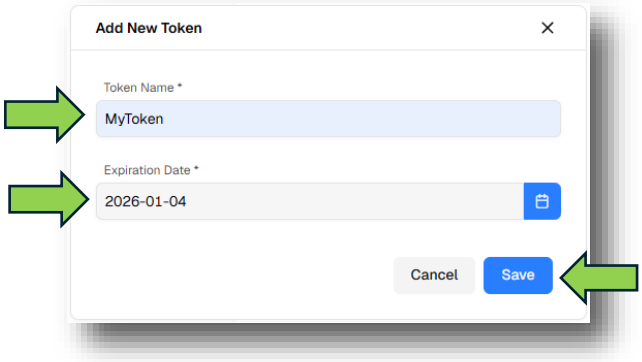


INTERNAL

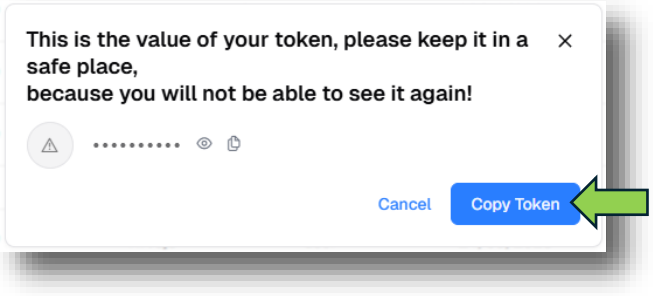
5) Click on the ProgramGenie icon to open the 'Extension: ProgramGenie Code Assistant' tab, giving a full description of the plugin's operation.



6) Go to the ProgramGenie application, click on the Identity icon on the sidebar
7) Select the Resources menu
8) Click on the Personal Access Token menu option

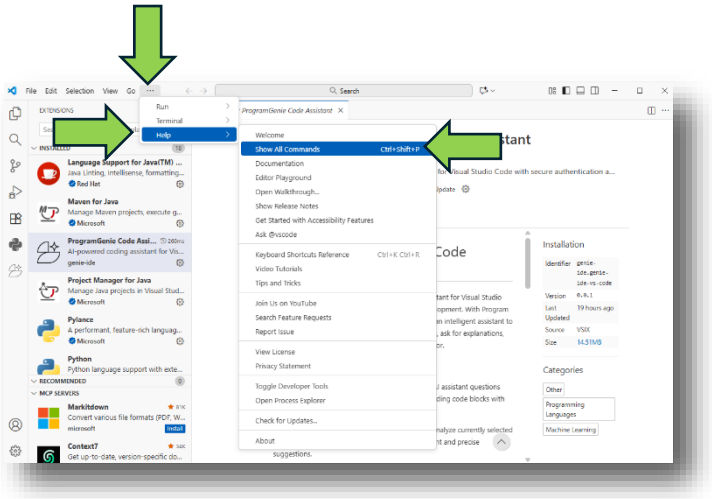


9) The Personal Access Tokens screen is displayed
10) Click on the Add Token (+) icon
11) The Add New Token window is displayed
12) Enter a Name for the token
13) Enter an expiration Date for the token
14) Press save
15) The token is created

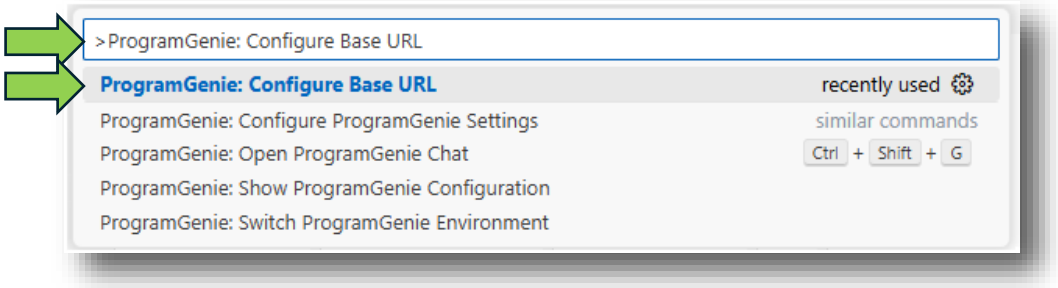


INTERNAL

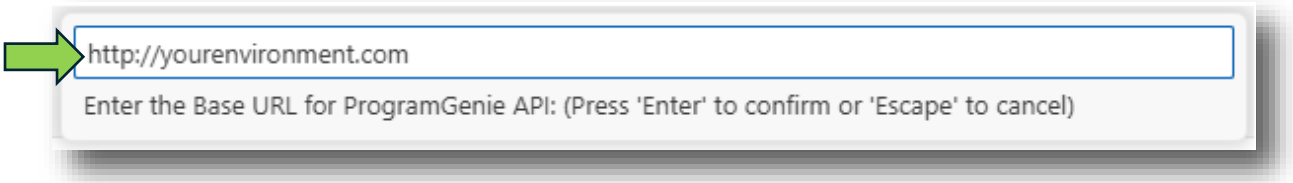
16) Click on the Copy Token button
17) Save this token in a safe place



18) Go back to the Visual Studio Code application
19) Select the Help (or ...) menu item
20) Select the Help option
21) Then select the Show all Comands option

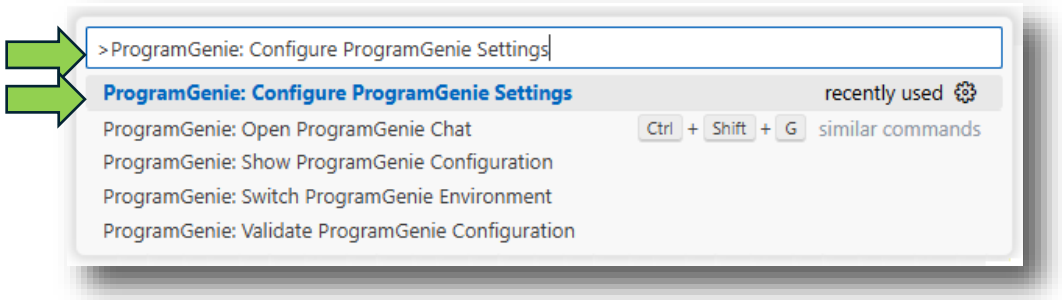


22) Enter 'ProgramGenie: Configure Base URL' to filter the list
23) Then click on the 'ProgramGenie: Configure Base URL' option on the list
24) Enter the Base URL for your environment

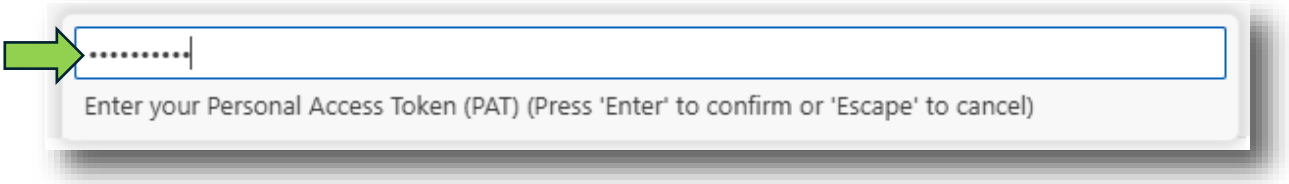


25) Select the Help (or ...) menu item
26) Select the Help option
27) Then select the Show all Comands option

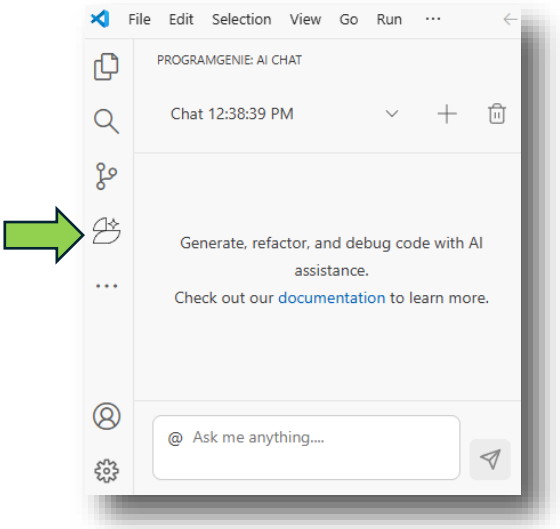
INTERNAL



28) Enter 'ProgramGenie: Configure ProgramGenie settings' to filter the list
29) Then click on the 'ProgramGenie: Configure ProgramGenie settings' option on the list
30) Enter the token you generated and copied earlier & press enter



31) Click on the ProgramGenie icon in the Visual Studio Code sidebar Code sidebar
32) The ProgramGenie AI Chat Window is displayed within the Visual Studio Code application.



INTERNAL

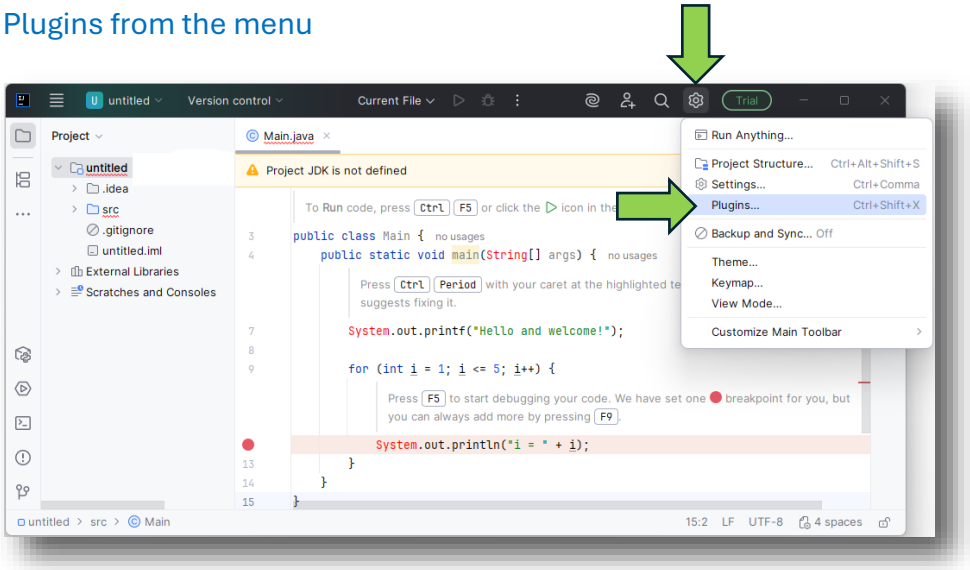
3 IntelliJ IDEA Plugin

3.1 Install & Configuration

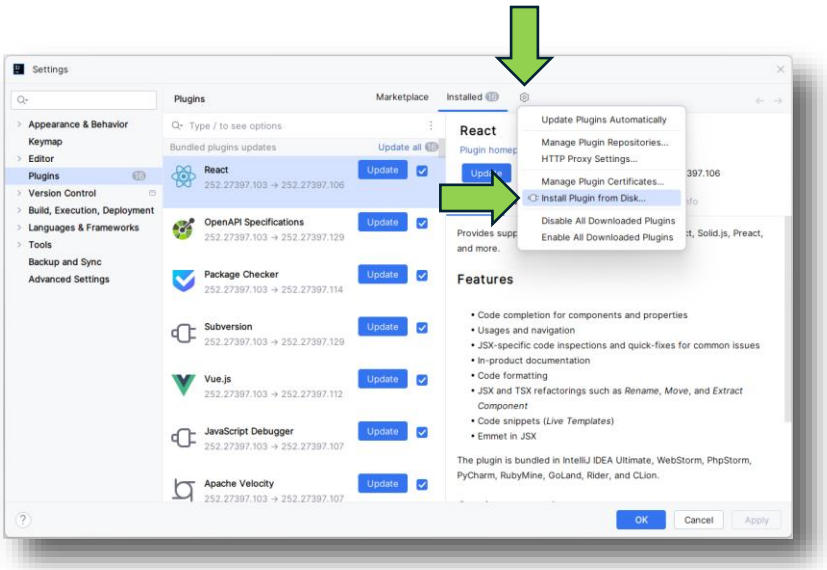
ProgramGenie IntelliJ IDEA Code Extension is an AI-powered assistant for IntelliJ IDEA, designed to streamline and accelerate software development. With ProgramGenie, developers and QA engineers can chat directly with an intelligent assistant to analyze code, generate new snippets, refactor existing code, ask for explanations, and get help with tricky bugs — all without leaving the editor.

To install the ProgramGenie Plugin for IntelliJ IDEA, take the following steps:

1) Open the IntelliJ application
2) On the top menu clicon the Settings (cog) icon
3) Select Plugins from the menu

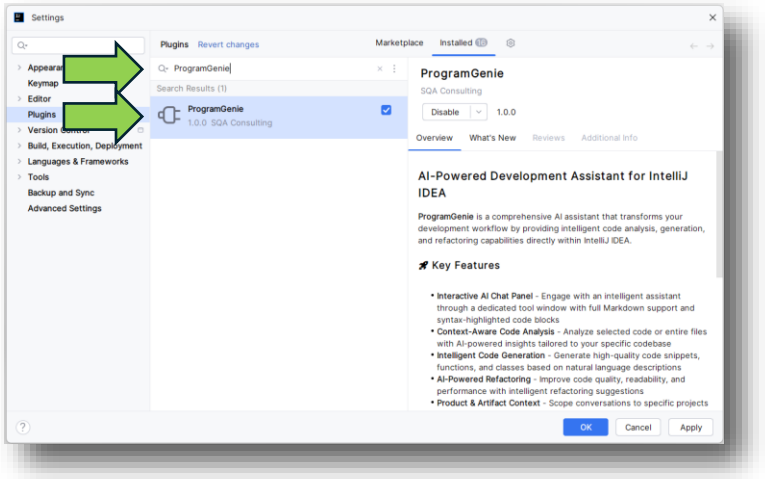


4) The Plugins settings window is displayed
5) Click on the Settings (cog) icon and select Install Plugin from Disk option

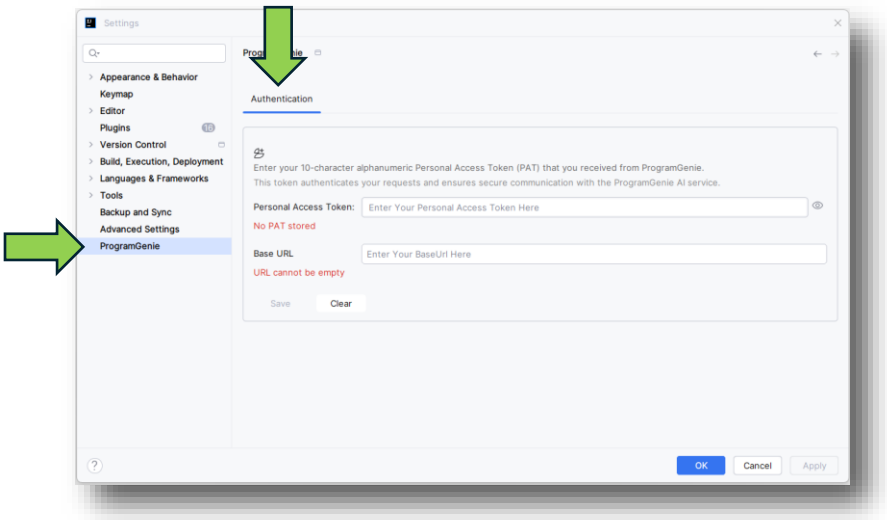


INTERNAL

6) A standard windows selction screen is displayed, click on the ProgramGenie IntelliJ plugin that was downloaded from ProgramGenie, then press the OK button on the settings screen.
7) Click on the settings (cog) icon and select the Plugins menu option to reopen the plugins screen.
8) Enter 'ProgramGenie' into the IntelliJ plugin screen search field to find the installed ProgramGenie plugin. (If the plugin is not found, installation has failed, reapeat the steps and if the problem persists please contact ProgramGenie support).



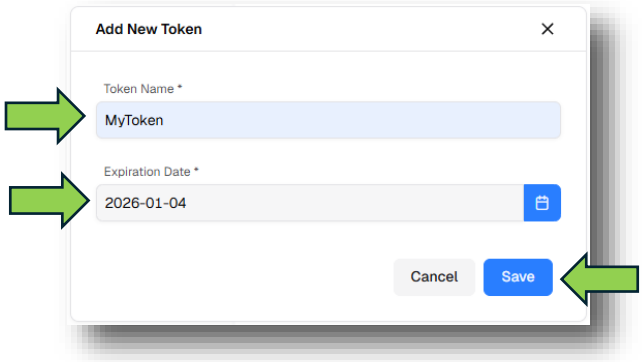
9) Select the ProgramGenie menu option on the settings sidebar, to display the ProgramGenie Autentication screen. This screen must be completed to allow IntelliJ to connect to ProgramGenie.



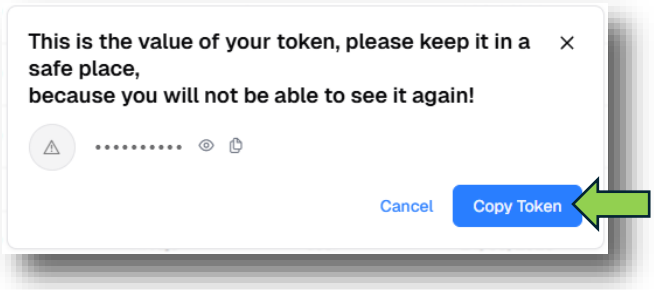
10) To get a token from ProgramGenie do the following steps.

INTERNAL

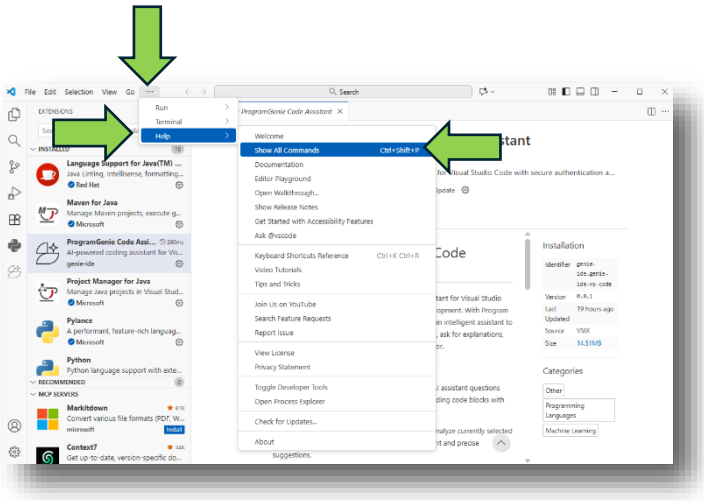
11) In a ProgramGenie environmen
12) Click on Identity in the sidebar and select the Personal Access Token menu option
13) The Personal Access Tokens screen is displayed
14) Click on the Add Token (+) icon
15) The Add New Token window is displayed



16) Enter a Name for the token
17) Enter an expiration Date for the token
18) Press save
19) The token is created



20) Click on the Copy Token button
21) Save this token in a safe place



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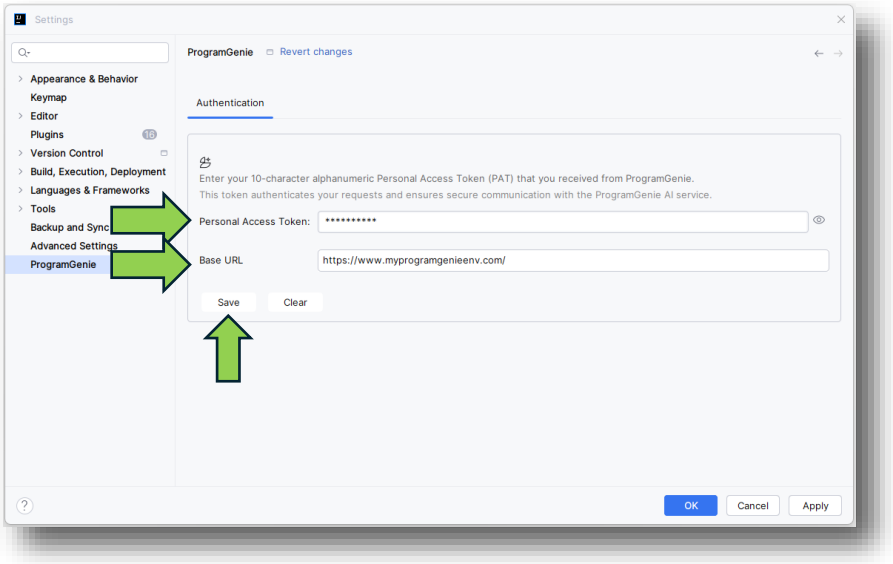
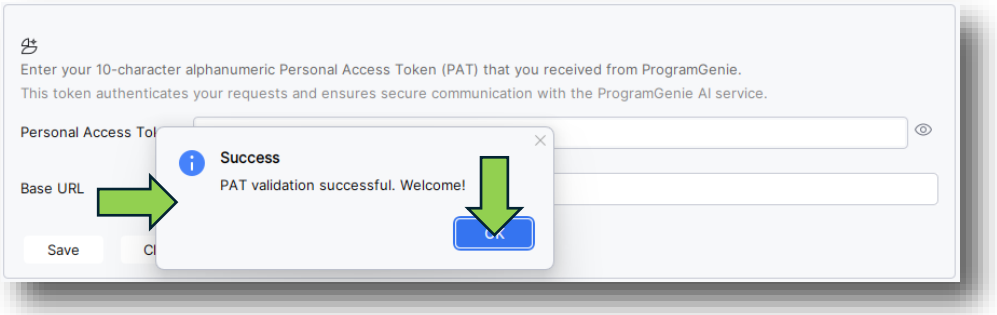
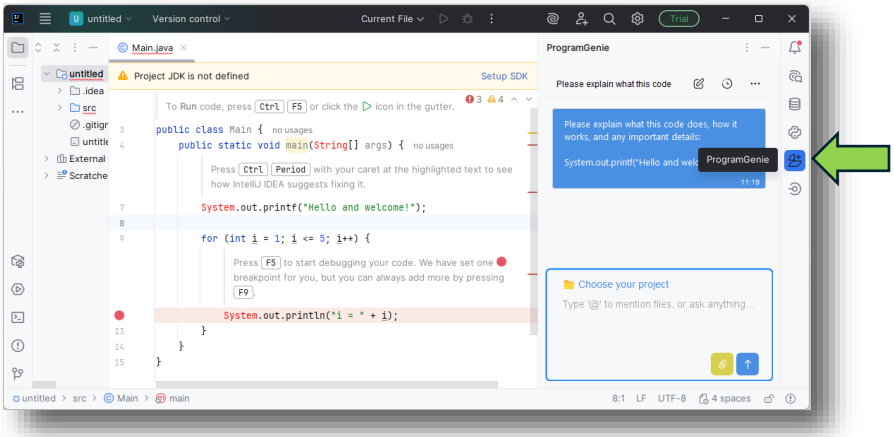
22) Go back to the IntelliJ application
23) Enter the saved token in the Personal Access Token field
24) Enter the Base URL of your ProgramGenie environment in the Base URL field
25) Press Save



26) Personal Access Token validation Successful window should be displayed, press OK to acknowledge.



27) Press the OK button on the Plugins settings screen
28) Click on the ProgramGenie icon in the right sidebar to open the ProgramGenie plugin screen inside IntelliJ



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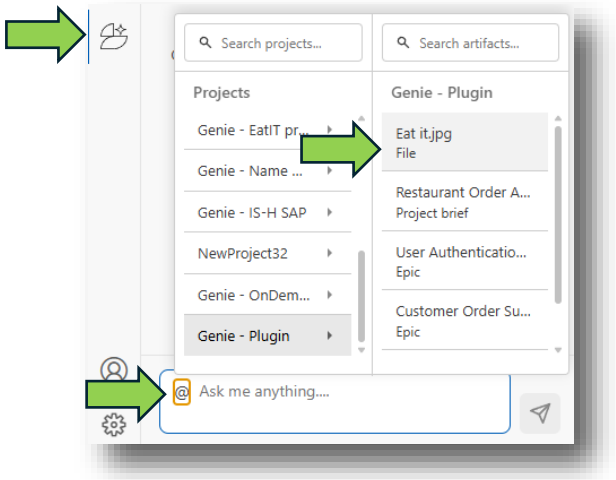
4 Using a Plugin

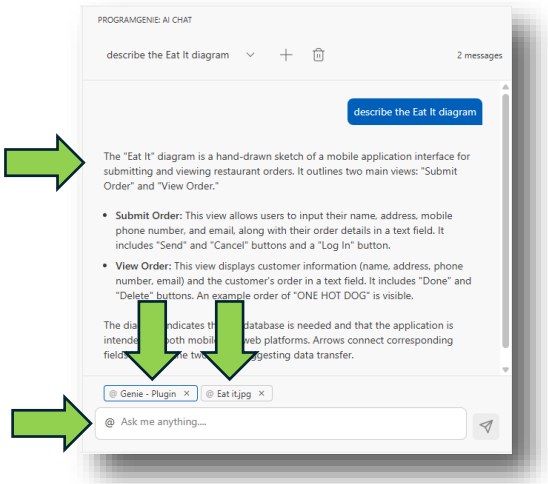
4.1 AI Chat Panel

The interactive chat panel allows the user to ask the AI assistant questions and receive responses formatted in Markdown, including code blocks with syntax highlighting.

1) In the Visual Studio Code application click on the ProgramGenie icon in the left sidebar.
2) In the IntelliJ application click on the ProgramGenie icon in the right hand sidebar.



3) Click on the @ (Visual Studio Code) or Folder Icon (IntelliJ) in the 'Ask me anything' area
4) Observe a menu of all the projects in the configured menu is displayed
5) Selecting one of the projects will display a sub menu showing the artefacts in that project
6) You are now able to write prompts to query the selected ProgramGenie artefact, for example 'describe the Eat It diagram'



7) The response is displayed in the chat area

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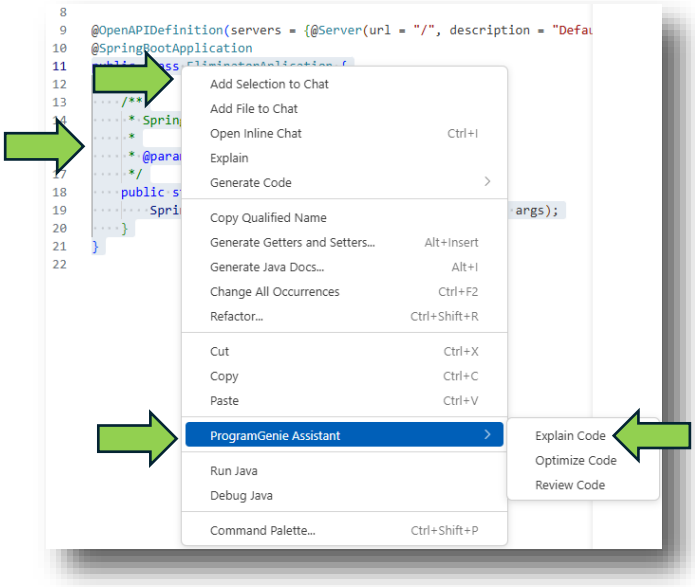
8) As a further example you could select a subtask from a project then write the prompt “create the Python code for this subtask”

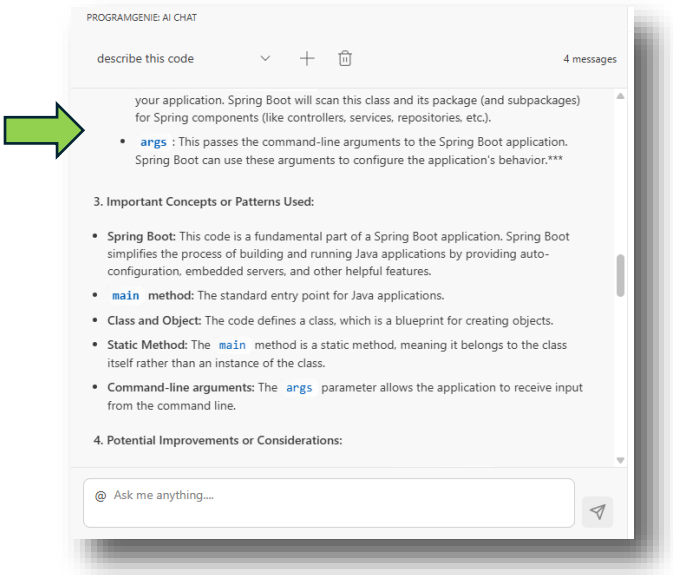
4.2 Context-Aware Code Analysis

The extension can analyse selected code or the entire open document to provide relevant and precise suggestions.

1) Open a code project in Visual Studio Code or IntelliJ
2) Highlight a section of code
3) Right click on the highlighted code then select the “ProgramGenie Assistant”



4) Select the Explain Code menu option
5) The output is displayed in the ProgramGenie Chat window



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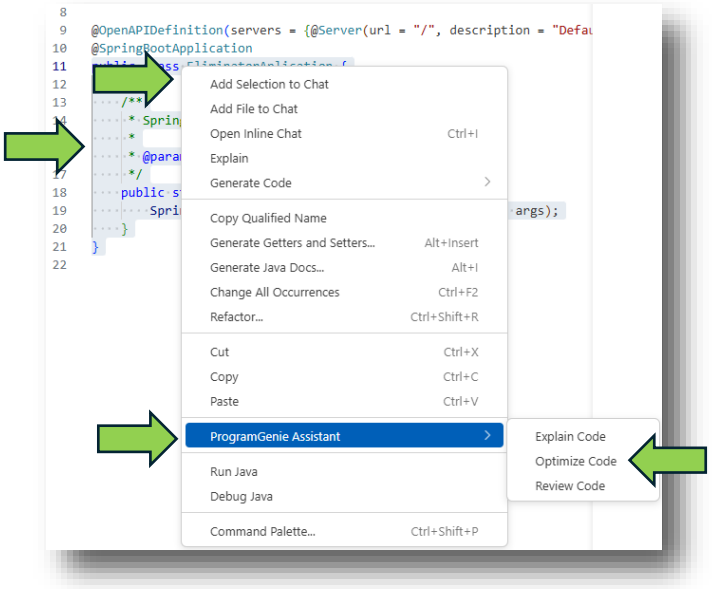
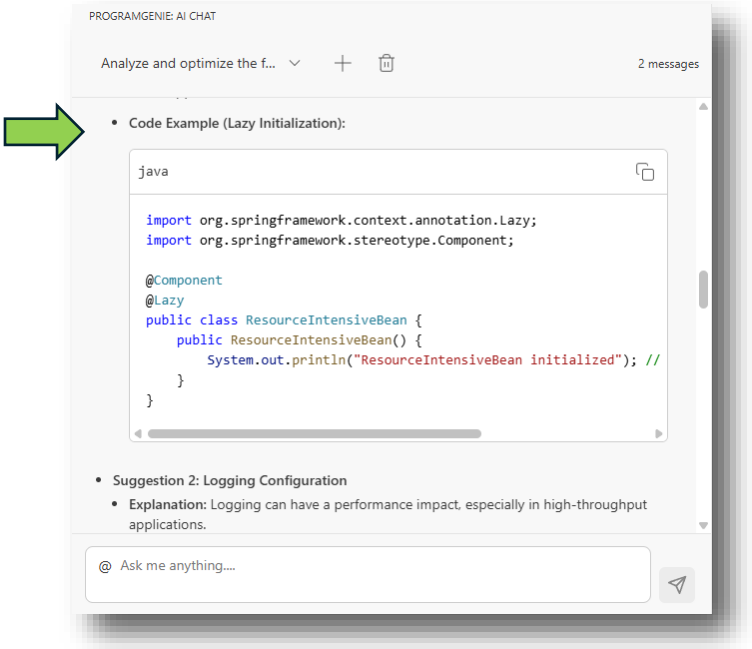
4.3 Context-Aware Code Optimization

Based on a text prompt and context, the AI assistant can generate suggestions and new code segments.

1) Open a code project in Visual Studio Code or IntelliJ
2) Highlight a section of code
3) Right click on the highlighted code then select the “ProgramGenie Assistant”



4) Select the Optimize Code menu option
5) The output is displayed in the ProgramGenie Chat window



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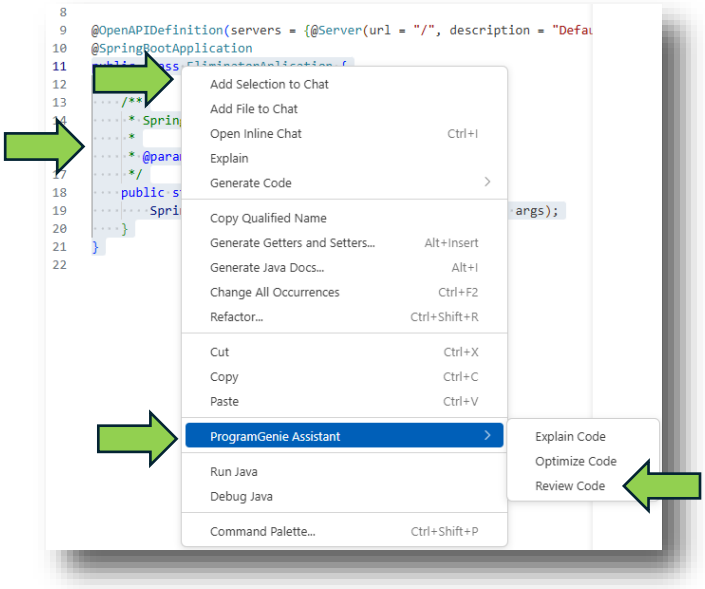
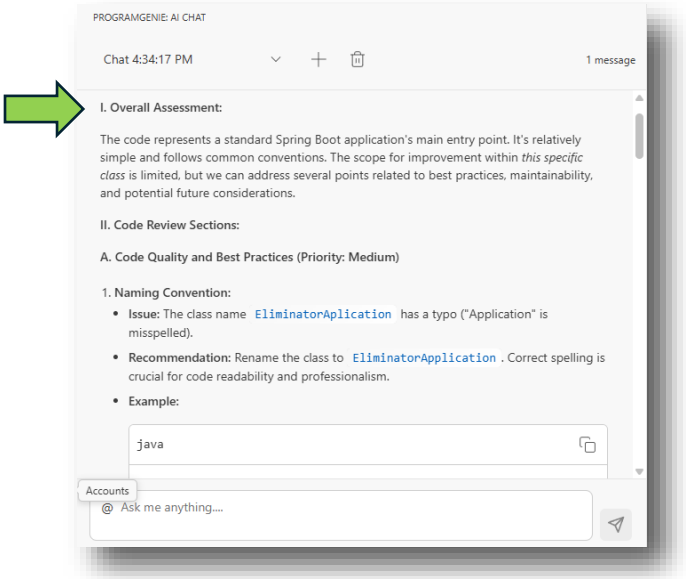
4.4 Context-Aware Code Refactoring

Improve the quality, readability, and performance of existing code with the help of AI-powered refactoring suggestions.

1) Open a code project in Visual Studio Code or IntelliJ
2) Highlight a section of code
3) Right click on the highlighted code then select the “ProgramGenie Assistant”



4) Select the Review Code menu option
5) The output is displayed in the ProgramGenie Chat window



INTERNAL

1.1 Appendix 1 : Version History

Distribution

Name	Role	Date	Version
RW	Author	22-Oct-2025	1.00

Version History

Name	Summary of Changes (List the reason for each version of the document)	Revision Date	Version
RW	Initial version	22-Oct-2025	1.00
RW	Format Changes	29-Oct-2025	1.01
RW	V3.2 InteliJ update	11-Nov-2025	1.02
NJ	V3.3 Update	6-Feb-2026	1.03

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