

Project Thesis

Create Vim/Neovim plugin written in Vimscript built on top of Pieces OS Client to enhance developer productivity by seamlessly integrating code management, Copilot assistance, and code navigation within the Vim/Neovim environment.

Project Objectives:

1. Save and Search Functionality:
 - a. Allow users to save code snippets for reuse and search through saved snippets.
 - b. Implement intuitive search options, including by keyword, tag, or file name, to facilitate quick retrieval of relevant snippets.
2. Integration with Copilot:
 - a. Integrate Pieces' Copilot into the Vim/Neovim plugins to provide AI-driven code suggestions and assistance.
 - b. Enable users to interact with Copilot directly from within Vim/Neovim
3. Multi-file Search:
 - a. Enable users to search across multiple files within a project, even when having multiple files open simultaneously in Vim/Neovim.
 - b. Display a sidebar within Vim/Neovim to present the project's structure for easy access.
4. Line-Based Navigation:
 - a. Implement functionality to allow users to easily jump between lines of code within Vim/Neovim.
 - b. Provide shortcuts or commands for seamless movement within code files.
 - c. Simplify code folding with an uncomplicated, single-click action.

Project Deliverables

1. Fully Functional Vim/Neovim Plugins:
 - a. Efficient code snippet management
 - b. Seamless integration with Pieces' Copilot for AI-enhanced coding assistance
 - c. Advanced cross-file search capabilities
 - d. Context-sensitive auto-fill for code and commands
 - e. Line-based navigation with intuitive shortcuts and commands
2. User-Friendly Documentation:
 - a. Step-by-step setup and configuration guides
 - b. Comprehensive feature usage instructions
 - c. Examples for saving/searching code snippets, Copilot collaboration, and code navigation
3. Testing and Quality Assurance
 - a. Conduct testing to ensure the reliability, stability, and compatibility of the plugins across different Vim/Neovim environments. (Ex. Pytest or Syntastic for Vimscript)
 - b. Address any identified issues or bugs promptly to deliver a polished and reliable product to users.
4. Developer Advocacy
 - a. Emphasize the importance of developer advocacy within the project, aiming to foster a strong community around the Vim/Neovim plugins.
 - b. Engage with users, gather feedback, and actively involve the community in the development process through forums, social media, and developer meetups.

<https://ncona.com/2019/02/writing-a-vim-plugin-grepfrut/>