iPlug2OOS VOID Audio Fork

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Abstract Added AI agent with tasklist functionality.

Keywords AI agent

1 Version v.0.2.0.0 Update List

1.1 Key Features Added

Brief list of all the added functionality

1.1.1 AI Agent

you can now configure AI agent tasks in agent_tasks/. It is recommended you label them by the convention Number_Description so you can control the order of the tasks. The task configuration files follow the same outline of PATH>QUERY>ASSOCIATED:

PATH = "TemplateProject/TemplateProject.h"

QUERY = """

11 11 11

ASSOCIATED = ""

or with ASSOCIATED,

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E-mail: fromthevoid.audio@gmail.com

PATH = "TemplateProject/TemplateProject.cpp"

QUERY = """

Given this cpp file, update it so that it also includes the

ASSOCIATED = "TemplateProject/TemplateProject.h"

The files that it overwrites are stored at agent_backups/ and can all be restored using the command

./restore.py

This is because undo is inconsistent in my experience. It also does not delete the files in the agent_backups/ folder, so it gives undo two changes to work and allow you some sort of swapping mechanism if you iterate between AI agent changes.

2 Version v.0.1.0.0 Update List

2.1 Kev Features Added

Given this header file, update it so that it also includes a controllable parameter for mixAmount and width Brief list of all the added functionality

2.1.1 init.sh

This script is for setting up the project once the Codespace is started. Edit the configuration file config.txt to specify the project:

PROJECT_NAME = MyPlugin

MANUFACTURER_NAME = MyCompany

2 Derek Wingard

with more specification to the build expected to come in later versions of this script. Then, activate the init script with:

./init.sh

2.1.2 setup.sh

Rebuilt the setup.sh script that used to exist in the repo. It now gets called from init.sh and is fed arguments from config.txt.

2.1.3 undo_setup.sh

Makes the process a little more foolproof. You can now undo the init.sh script and reset the project folders/files to TemplateProject. Reads correct PROJECT_NAME from config.txt. The folders .github/workflows and .vscode are git restored so make sure you have the initial state you want to revert to as your previous push or else you will have to manually delete and copy back in the template files. If you have your tracking set up, then simply reset the project with:

./undo_setup.sh

2.1.4 Updated duplicate.py

The duplicate.py script was changing my custom scripts so I updated it to no longer touch them.

2.1.5 Added LaTeX functionality and Docs to the Codespace

Now includes scripts to setup LaTeX to compile the README.tex file. Edits can be made at VOID_Docs/svjour/README.tex. When you are ready to compile them, first use:

./VOID_Docs/setup_latex.sh

then you will be able to compile with

./VOID_Docs/tex.sh

Compiles README.pdf to VOID_Docs.

2.1.6 Optimized Git Commands

I added my personal git commands for quality of life stuff. Updated devcontainer.json so they are available instantly when the workspace is built.

gitster:

```
read -p "Commit message: " msg
git add .
git commit -m "$msg"
git push origin master
  gitmain:
read -p "Commit message: " msg
git add .
git commit -m "$msg"
git push origin main
  gitbranch:
_____
read -p "Branch name: " branch
read -p "Commit message: " msg
git add .
git commit -m "$msg"
git push origin "$branch"
```

3 Expected Next Steps

The ideas we have of where this project will be going.

3.1 AI Agent

More functionality to maybe include some kind of gitstyle merge mechanism or even have it run through its own branch and initiate merges so the inclusion is more controlled. Could even set up other agents to manage merges and whatnot. Many such ideas.

 $3.2 \; {\tt init.sh} \; {\tt Script}$

As it stands, learning how to use this framework as effeciently as possible will involve improvements to this init build script. Ideally, we will have a set of specifications available in config.txt that can get started on specific build types that require unique logic, for example:

```
REQUIRES_REALTIME_DISPLAY = bool
IS_INSTRUMENT = bool
NUM PARAMS = int
BUILD_AAX = bool
LICENSING_TYPE = string
EXTERNAL_LIBS = string
etc...
```