Tech Stack

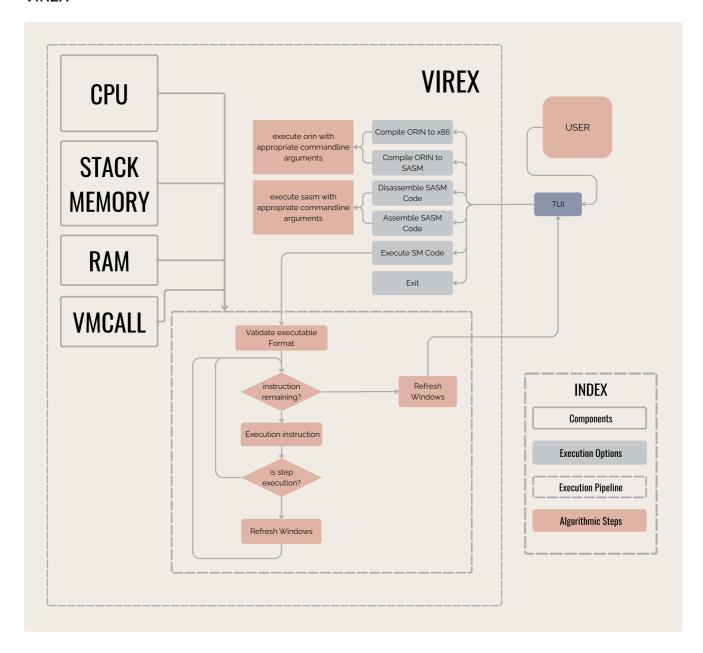
- Programming Language: C
- Version Control: Git
- Build System: GNU Make
- AST VISUALIZER: Graphviz



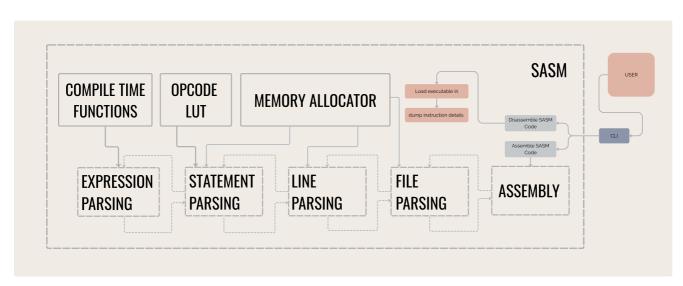
📦 Project Structure

```
VIREX
├─ build/
├─ docs/
                                               # Reference
documentation
                                               # Sample programs
— examples/
├─ extras/
   └─ orin_grammar.txt
                                               # Grammer for ORIN
(PROTOTYPE)
├─ html/
                                               # Latest Build of the
documentation website
├─ include/
                                               # Public headers for VM,
SASM, OCC
                                               # Install script for
├─ install.sh
linux
├─ LICENSE
                                               # GPL-3
├─ Makefile
                                               # RULES: virex, sasm,
occ, html, clean
├─ mkdocs.yml
- README.md
├─ requirements.txt
                                               # requirements for
mkdocs
├─ src/
                                               # Core implementation
(VM, assembler, compiler)
                                               # Simple Test programs
├─ tests/
written in SASM
└─ tools/
    ├─ fonts/
      └─ EnvyCodeR/
                                               # font used when
building TUI
    └─ themes/
        ├─ kitty/
                                               # kitty terminal conf
used when building TUI
        └─ vs_code/
           └─ sasm_syntax_highlight/ # VS Code syntax
highlighter
```

Architecture



SASM



Individual Components of SASM

