```
!!! danger ""

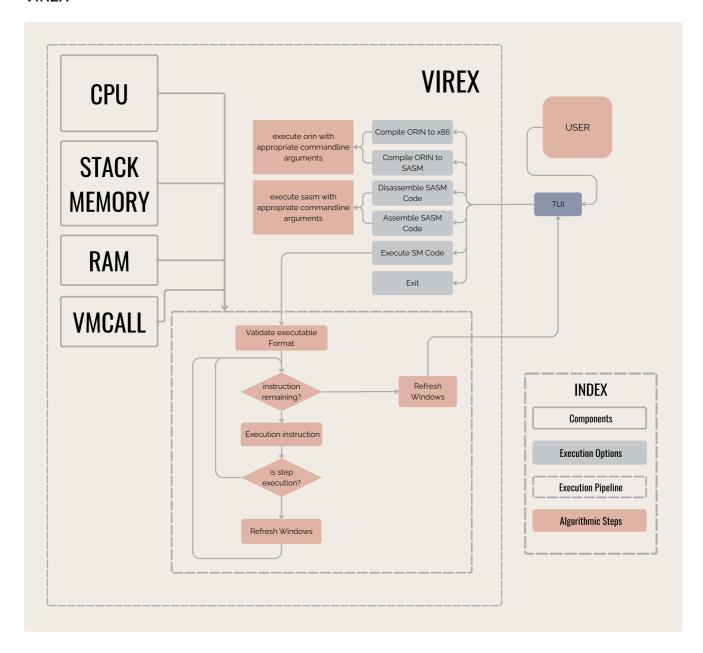
    **Programming Language:** C
    **Version Control:** Git
    **Build System:** GNU Make
    **AST VISUALIZER:** Graphviz

Tech Stack
!!! warning ""

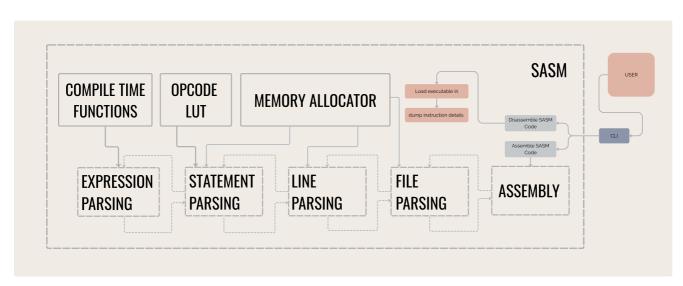
Other than the above mentioned tools, we have also used libraries like
NCurses to build the UI.
```

```
VIREX
├─ build/
— docs/
                                        # Reference documentation
— examples/
                                        # Sample programs
├─ extras/
  └─ orin_grammar.txt
                                        # Grammer for ORIN (PROTOTYPE)
— html/
                                        # Latest Build of the
documentation website
├─ include/
                                        # Public headers for VM, SASM,
OCC
├─ install.sh
                                        # Install script for linux
  - LICENSE
                                        # GPL-3
                                         # RULES: virex, sasm, occ,
├─ Makefile
html, clean
— mkdocs.yml
├── README.md
— requirements.txt
                                        # requirements for mkdocs
                                        # Core implementation (VM,
├─ src/
assembler, compiler)
— tests/
                                         # Simple Test programs 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

