

!!! info inline end ""

!!! danger ""

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

Tech Stack

!!! warning ""

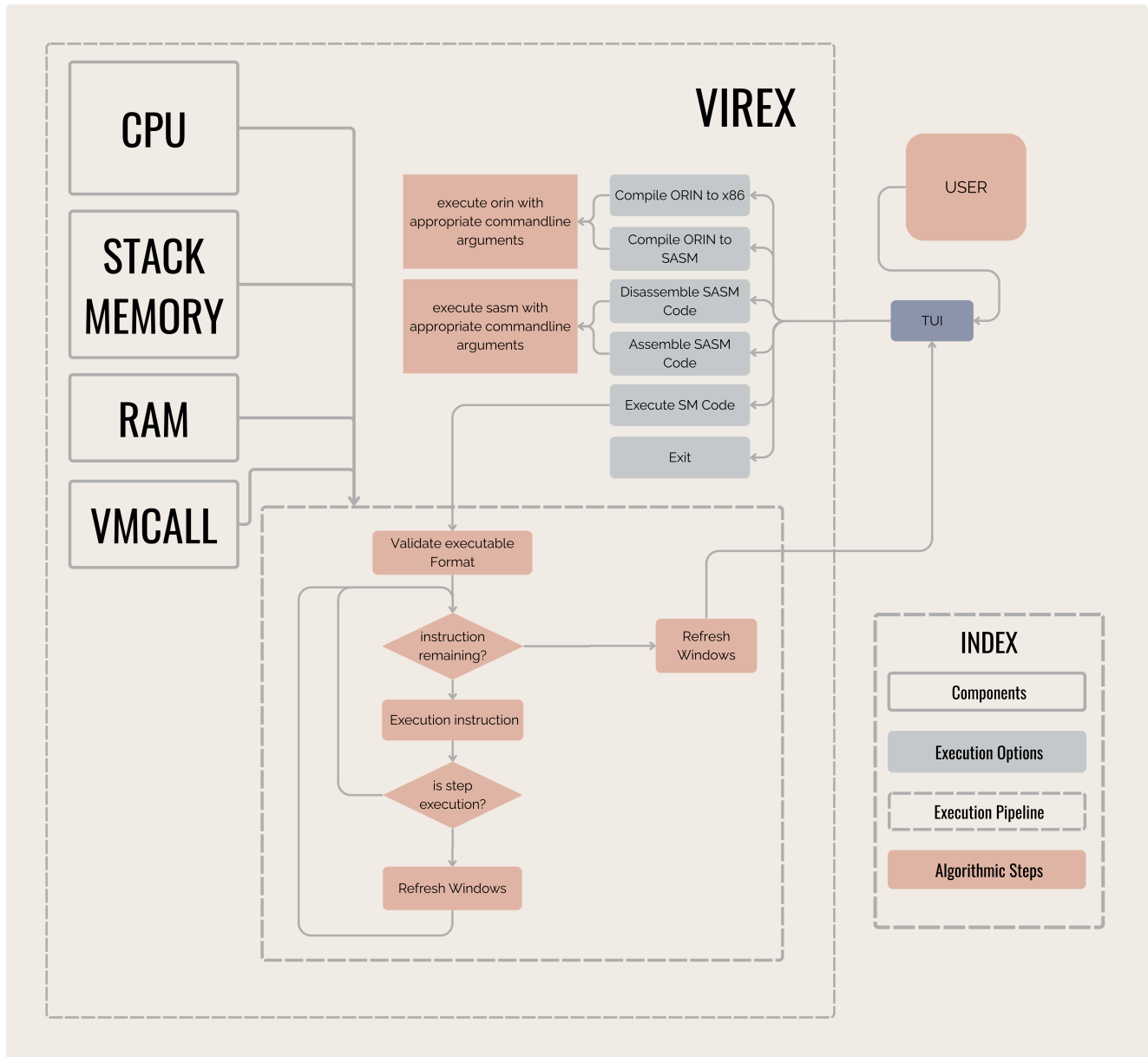
Other than the above mentioned tools, we have also used libraries like NCurses to build the UI.

```
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
├─ Makefile                            # RULES: virex,
sasm, occ, html, clean
├─ mkdocs.yml
├─ README.md
├─ requirements.txt                    # requirements for
mkdocs
├─ src/                                # Core
implementation (VM, 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
```

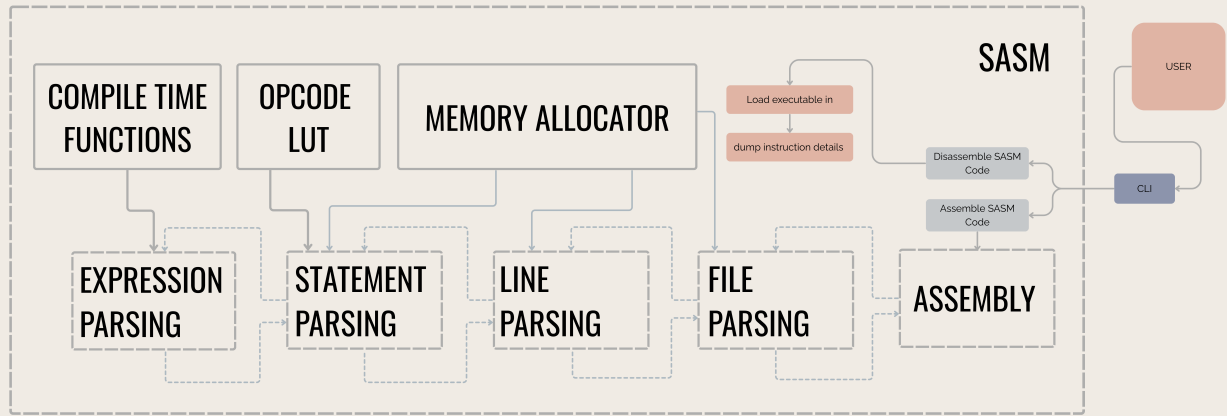
```
└─ vs_code/
  └─ sasm_syntax_highlight/
highlighter                                     # VS Code syntax
```

Architecture

VIREX



SASM



Individual Components of SASM

