

!!! info inline end ""

!!! danger ""

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

Tech Stack

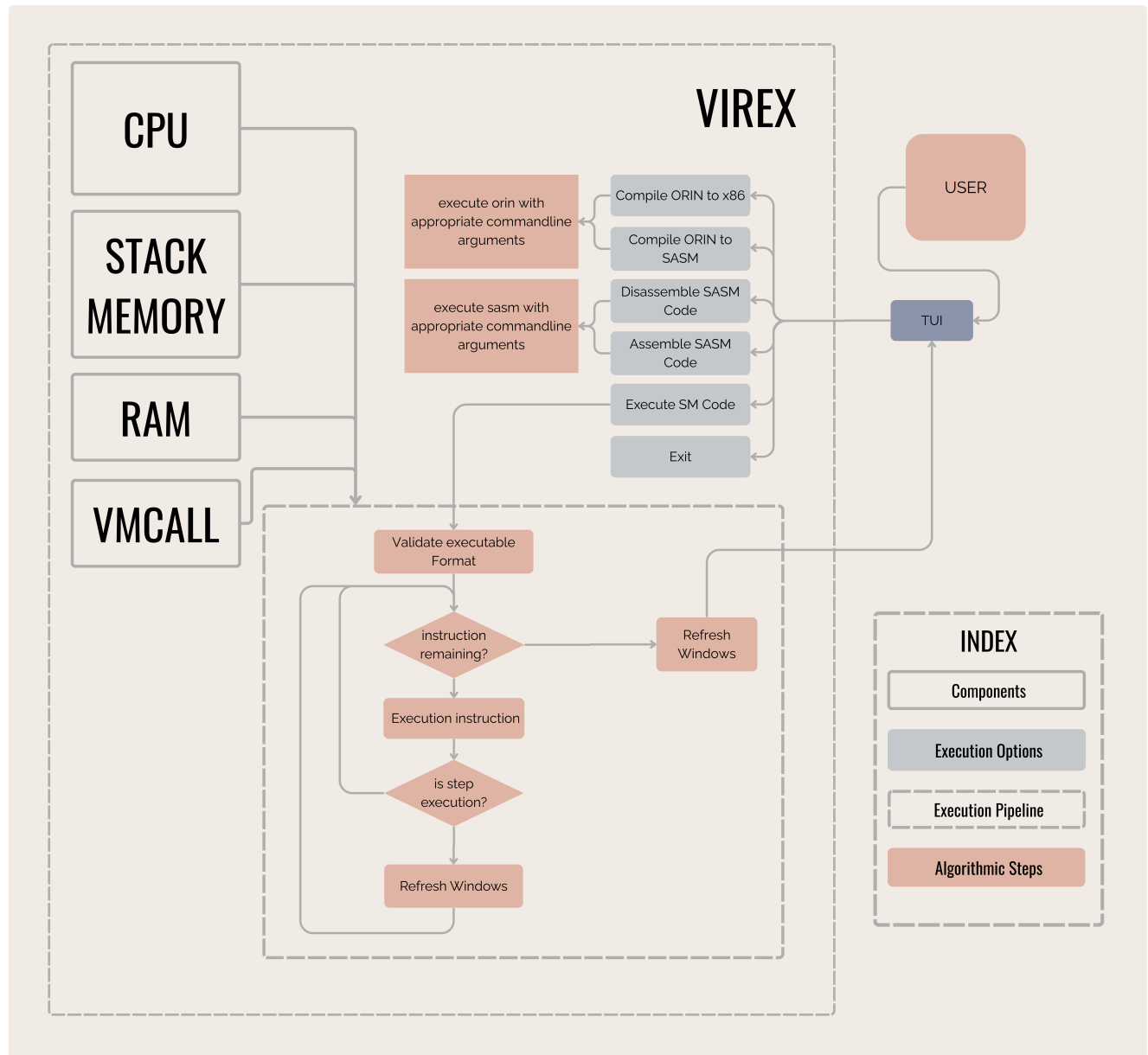
!!! warning ""

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

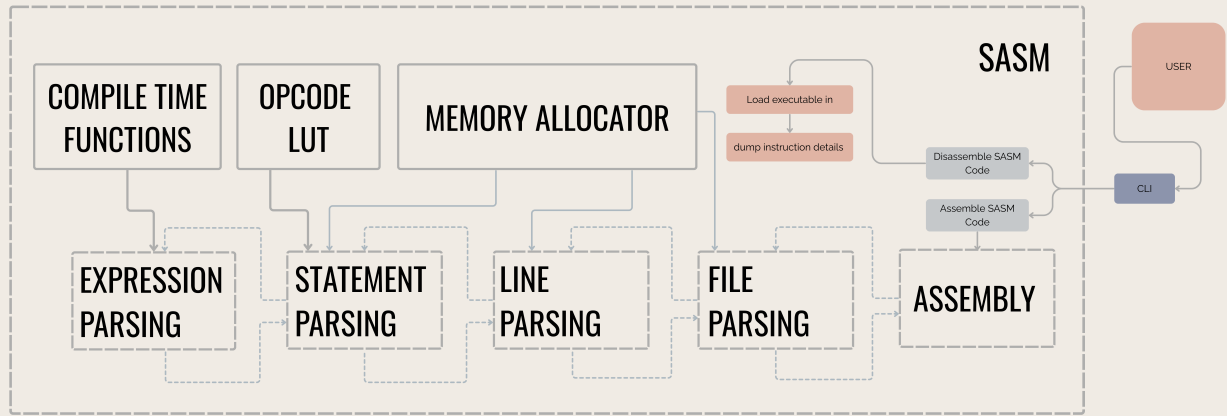
```
VIREX
├─ build/
├─ docs/                # Reference documentation
├─ examples/            # Sample programs
├─ extras/
│   └─ orin_grammar.txt  # Grammer for ORIN (PROTOTYPE)
├─ html/                # Latest Build of the
documentation website
├─ include/             # Public headers for VM, SASM,
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/ # VS Code syntax highlighter
```

Architecture

VIREX



SASM



Individual Components of SASM

