```
!!! danger ""

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

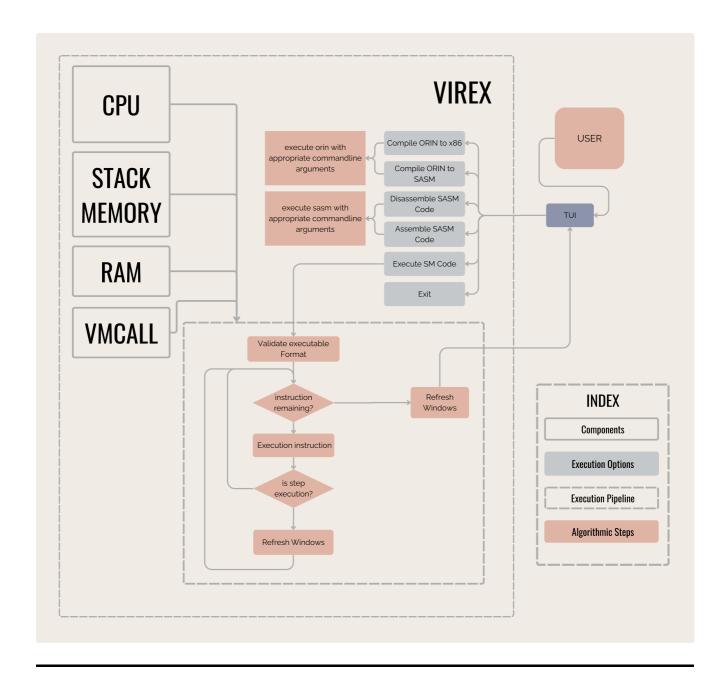
Tech Stack
!!! warning ""

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

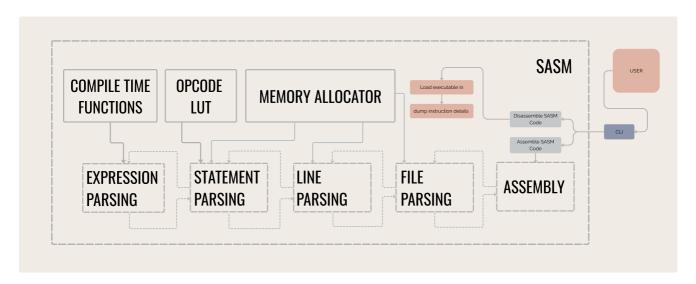
```title="Project Structure" VIREX | build/ | docs/ # Reference documentation | examples/ # Sample programs | extras/ | orin\_grammar.txt # Grammer for ORIN (PROTOTYPE) | html/ # Latest Build of the documentation website | include/ # Public headers for VM, SASM, OCC | install.sh # Install script for 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** 

