Executable Spreadsheet
7/2/2025

Team name Parasheet

Team member names

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Executable Spreadsheet

- Brief outline of problem/opportunity
  - Spreadsheet users such as accountants, banks, or any logistical management utilizing spreadsheets.
  - People processing data through spreadsheets for ML

Project Scope

- Create, edit and run spreadsheet
- Built in interpreter
  - File I/O
  - Complex Math

Sprint 1

User Stories
- Save to file (1 SP)
- Load CSV (3 SP)
- Display Spreadsheet (3 SP)

Spikes
- Spreadsheet Data Structures
- Language Grammar

Infrastructure
- Build System
- Git system
- Architecture Design

Sprint 2

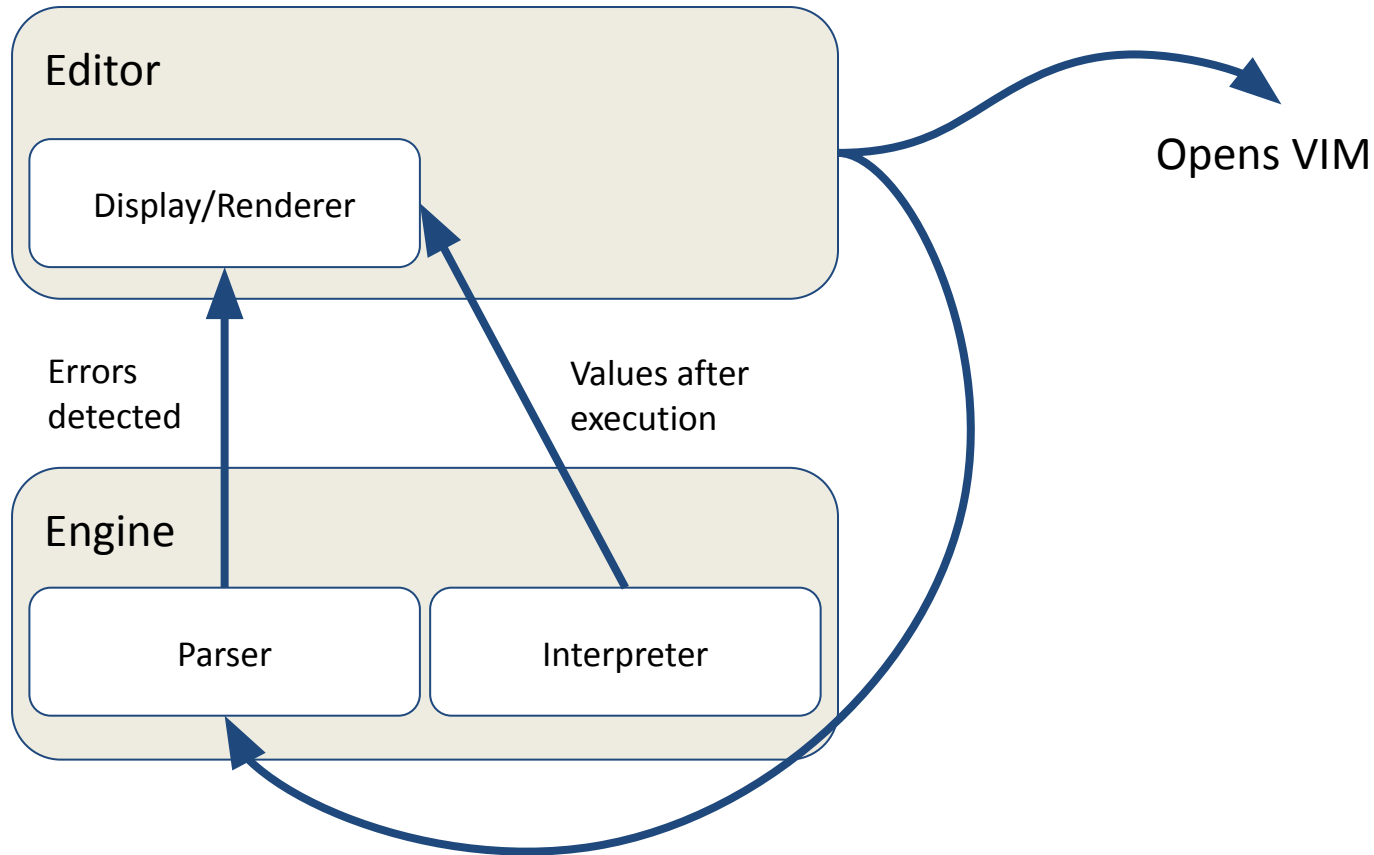User Stories
- Execute a single cell (8 SP)

Infrastructure
- Testing Framework

Sprint 3

User Stories
- Execute Spreadsheet (2 SP)
- Edit Spreadsheet (2 SP)
- Edit Cell in Text Editor (1 SP)

Architecture

Technologies

- C Programming Language
- Spreadsheets
- CSV Files
- GNU Make
- Clang/llvm
- Unix

Challenges/Risks

- New Programming Language
- Developing an Editor
- Spreadsheet IDE
- Parsing
- Interpreted VM

Minimum Viable Product (MVP)

- Open/Create Spreadsheet
- Edit Spreadsheet
- Run Spreadsheet