Project: Librarian

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# *Sprint Details*

## **Composition**

### Plans and Objectives:

#### What am I going to do?

* Create MVP Frontend
  + Select Directory
  + Confirm Directory
  + Summary of Changes / Accept / Decline Changes
* Create MVP Backend
  + Starter Electron App
  + Directory Read and Write
  + Integrate the Modeling
  + Perform Directory Organization Algorithm

Execute and Test:

#### What did I do and Is it working?

* I created MVP Frontend and Backend.
  + They are both working but both can be greatly improved upon.

Review:

#### What have I learned and what to do next?

* There are a few things I have learned.
  + 1st thing I learned is that when I am developing I have the habit of making it working then making it pretty and this might be good idea for a time crunch but we are not in a time crunch so we need to go back and refactor the code to make it look nicer.
  + 2nd thing I learned is that we can do more modeling for this system, specifically following the dynamic model.
  + 3rd thing I learned is the bulk of the work that follows is going to be in file manipulation. The most amount of bugs that occur are during file manipulation. The LLM is working as expected and we might need to do better prompt engineering, but regardless the bulk of the work is in the file manipulation which is something that I did not expect.
  + 4th thing I learned is that there are many patterns we can use in this project that we have not used yet. Strategy pattern, template pattern, builder pattern, state pattern, and command pattern.
  + Last thing I learned is that I also need to pay more attention to the bounds of my functions such as the prompt size restrictions posed by the llm.
* Here’s what I will do next.
  + Remodel
    - We can add more modeling to this project that will make it for flexible and easily understood.
  + Refactor
    - We can take the newly created models and adjust our code, add new comments and reduce chaos in the app.