**March 25th, 2025**

**Retrospective**

What worked or went well?

* Completed goals for the sprint
* Resolved any issues quickly so that other developers weren’t impacted too much
* Feedback from TA and professor over the sprint was positive
* Created groups for different parts of development, such as frontend, backend, and testing

What caused problems, failed to work properly, or did not go well?

* Some changes to the frontend modified the logic of the pages, which the unit tests relied on to work, so they have to be edited
* Testing various external elements was challenging due to hard-to-understand errors or bugs
* Some members were working on different versions of the code without pulling the most recent release
* The sales tax implementation did not fit with the intended use, so it had to be modified after

What can be done differently in the next sprint to improve the process?

* Anyone making changes to the code will run the unit & integration tests to ensure that they still work
* Before making changes or after long periods of time, team members will always ensure they have the most recent release
* Ensure that everyone working on a feature understands how the feature is used so that it is implemented correctly

**Planning**

Any feedback from Brendan?

* Progress is good
* Documentation is thorough

Goals: Implementing AI business insights, system-level testing, and creating the final presentation

Delivery Plan:

* + Tasks for this sprint:
    - User Story 6: As a user, I would like to have the advanced functionality of AI to give me insights about my business.
      * This involves: (pro user feature only)
        + Creating roles for pro users so that only they gain access to this feature.
        + Integrating either:

Commercial LLM APIs (OpenAI, Anthropic, etc.)

On-premises LLMs with locally offered APIs (open-source LMs such as Llama/Phi)

* + - * + Creating a chat window/panel with pre-written prompts to enable discussion with the LLM.
        + Creating & managing an additional setting to toggle the presence of AI insights.
        + Creating easy-access buttons to generate view-specific insights (reports, inventory, etc.).
      * Task 1: Implement the external API of our choosing, while experimenting with prompt engineering to create appropriate responses.
      * Task 2: Implement the chat/insights interface as well as the per-page buttons to generate quick responses.
      * Task 3: Create a toggle for this feature while gating it behind Pro access.
      * Task 4: Further testing to ensure the model remains fair and appropriate to all users in all situations.
    - Integration & System-level testing
    - Create documentation for testing results
  + Create progress report 3 and ensure all tests/meetings/user stories are recorded.
  + Create final presentation