## Overview of Deliverables Aligning with Broader Goals

* Chart Review
  + Prompting
    - Standardized the outputs
    - Test across models:
      * GPT-4o
      * o3-mini-low
      * LlaMa 3.1-8B
* Chart Review feedback
  + Prompting
    - Standardize Output
    - Test across models:
      * GPT-4o
      * o3-mini-low
      * LlaMa 3.1-8B
  + User interface
    - If the feedback output is in JSON, then we could trace the section that needs feedback, and in HTML and JavaScript, I could highlight it, and then provide that feedback.
* Synthetic Data
  + Using MedAgentBench, ACI-BENCH, and PriMock57 as a starting point.
* Computational Architecture
  + Creator agent
    - Input: processes the entire chart
    - Output: outputs one chart review document.
  + Inspect output in Python to ensure that the output is valid JSON.
  + Critic agent
    - Input: process chart as the whole and the output from the Creator agent
    - Output: Feedback on what was missed or what could be adjusted.
  + Revision Agent:
    - Input: generated chart review document and feedback.
    - Output: final document
  + Python code to convert the JSON into a rich text document.
* Computational Infrastructure
  + In the future, Mistral or LlaMa 20B+ models should be hosted in AWS for data control and preserving privacy.

## Breaking Down Goal in Increments

* Drafting the systems prompts
  + Agent roles
    - Creator agent
    - Critic agent
    - Revision Agent
  + Prompting qualities
    - Agent role
    - Define an objective
    - Formatting the prompt document in Markdown.
    - In context learning
    - Provide a criteria
    - JSON output template.
  + Steps to prepare
    - Search literature for formal definitions of chart review.
      * Define the following
        + a primary care context.
        + Potential intervention: medication management, referrals, chronic illness management.
  + Experimentation with OpenAI models.
* Swarm Architecture
  + Look up available Python solutions (LangChain). Do not reinvent the wheel.
* Infrastructure
  + AWS, TBD.