## **Humble Institute SWE Take-home Assignment (April 2025)**

## **Assignment Prompt**

Please design a responsive web application that uses AI to summarize long-form content from various sources.

## **Core Application Requirements**

- Content Input
  - o At the minimum, candidates should support text input and PDF upload
  - Optional: candidates may also optionally support URLs (e.g. a Medium or Substack article), YouTube videos, or audio uploads
- Al Processing
  - Integration with LLMs for summarization
  - Key points extraction
  - Multi-turn question and answering
- Frontend Interface
  - At the minimum, we expect an interface similar to ChatGPT / Claude
  - On top of this, candidates may also come up with novel interfaces that might better handle the assignment prompt use case
- User Management
  - The application should have support for simple sign-up / login / logout
  - Past chats should also be segmented by the user
- Instrumentation
  - Simple instrumentation to track track usage for analytics workloads
- Cloud Deployment
  - The app must be deployed to a cloud provider. Ideally, this should be AWS, GCP, or Alibaba Cloud. Submissions on cloud abstraction layers (e.g., Firebase, Heroku, Vercel, Supabase, Render, etc.) are also accepted.

## **Evaluation Criteria**

While this is not an exhaustive list, some of the things we will evaluate are

- Application design & architecture
- Summarization quality
- User interface design
- Error handling for various content types