

## Project: Starbuck Finance

**Objective:** Develop a system that can retrieve information from two primary sources—transcribed earnings calls and financial reports in PDF format. The system should provide concise, relevant responses to specific financial queries by leveraging both textual and visual data.

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### Key Requirements:

1. **Data Sources:**
  - **Audio Transcription:** Automatically transcribe earnings call audio files.
  - **PDF Reports:** Convert PDF financial reports into images for retrieval purposes.
2. **Processing:**
  - **Transcription Embedding:** Break down transcriptions into chunks and generate embeddings (textual representations) for each.
  - **Image Embedding:** Convert each PDF page into an image and generate embeddings for accurate comparison with textual data.
3. **Query Handling:**
  - Users will ask specific financial queries.
  - The system must:
    - Retrieve the most relevant segments from the earnings call transcription.
    - Retrieve related pages from the financial reports based on the query.
4. **Response Generation:**
  - Combine the retrieved text and images to provide a well-rounded response.
  - Ensure the output is concise and directly addresses the financial query.

**Outcome:** The system should improve the speed and accuracy of information retrieval from earnings calls and financial reports, providing analysts with more precise, context-rich answers to their questions.