**CAPM Question Library Management Project Flow**

**Overview**

Purpose:  
To maintain, expand, and stabilize the CAPM question library and quiz application using a clear process that leverages human expertise (Andrew) and AI assistance (Grok) without risking data loss or inconsistency.

**Roles and Responsibilities**

**Andrew (Project Manager & Content Owner)**

* Collect raw question data from trusted sources (websites, PDFs, etc.)
* Input raw questions in a “drop\_the\_format” text file with minimal formatting
* Review and approve AI-processed question formatting and correctness
* Backup question library files regularly before and after updates
* Manage version control and organize project folders
* Initiate script runs and oversee merges and imports to JSON/CSV libraries
* Provide final sign-off for releases and updates

**Grok (AI Assistant & Technical Specialist)**

* Receive raw question blocks from Andrew
* Format questions into labeled structure with options (Option A-D) and correct answer(s)
* Identify correct answer(s) from explanation text
* Return structured question blocks to Andrew for review
* Generate CSV or JSON-compatible formatted outputs based on approved question text
* Flag questions with ambiguous answers or missing info as “Answer: Unknown”
* Follow strict non-destructive modification protocols on files and data
* Provide transparent logs of all changes or formatting actions

**Project Flow Steps**

**1. Raw Question Intake (Andrew)**

* Dump raw question text into drop\_the\_format\_questions.txt
* Minimal manual edits; no forced labeling or answer guessing
* Save and commit changes to project repo

**2. AI Formatting (Grok)**

* Receive prompt + raw question block from Andrew
* Return formatted question block with:
  + Question line
  + Option A-D labels
  + Answer line(s)
  + Explanation
* Highlight any “Unknown” answers for Andrew’s attention

**3. Human Verification (Andrew)**

* Review AI output for accuracy
* Correct labels or answer if necessary
* Approve batch for import

**4. Conversion and Merge (Scripts - run by Andrew)**

* Run local Python script to convert formatted text to JSON or CSV
* Merge new questions non-destructively with master question library
* Backup latest library version post-merge

**5. Testing and Validation (Andrew & Grok)**

* Test quiz application frontend functionality:
  + Button functionality
  + Question filtering
  + Navigation between Study and Exam modes
  + Memory usage benchmarks
* Log any bugs or regressions

**6. Iteration and Release (Andrew)**

* Repeat cycle for new question additions
* Tag versions with metadata (date, author, purpose)
* Maintain comprehensive changelog