Non-Functional requirements

* Usability: The Gemini Pro Financial Decoder's user interface should be extremely intuitive and easy to use for users who have different technical and financial knowledge levels. It should allow for seamless file uploads, document type choice, and comprehension of derived insights without the need for training.
* Performance (Latency of Analysis): The AI analysis and subsequent summary creation for common financial reports shall be completed within an acceptable and brief duration. Optimal latency is between 5 to 10 seconds from start to result display, allowing for a responsive and effective user experience.
* Performance (UI Responsiveness): The user interface of the web application should be fast to load when accessed and quickly respond to any user activity, like button presses or selections. This guarantees a smooth and smooth navigation process, avoiding user annoyance due to delays.
* Accuracy: The financial summaries generated by the AI, identified key financial indicators, and the information displayed in all visualizations will be very accurate. They should accurately represent the underlying input financial information supplied by the user, with a focus on ensuring reliability of the insights.
* Reliability: The system will process uploaded files regularly and produce responses without common errors, crashes, or unusual behavior. This provides reliable service availability and establishes user confidence in the application's capacity to perform its fundamental operations reliably.
* Security (API Key & Data Privacy): The Google API Key should be treated with utmost security, commonly stored as environment variables or through specialized secret management tools. In addition, any financial data uploaded should be processed and stored (where persistence is enabled) securely to avoid unauthorized access, data leakage, or abuse.
* Scalability (Future Readiness): The underlying architecture of the system should be designed with future scalability in mind, allowing it to gracefully accommodate an increasing number of concurrent users and larger volumes of financial data without significant performance degradation or requiring extensive re-engineering.
* Maintainability: The Gemini Pro Financial Decoder's codebase should be properly structured, module-based, and heavily commented and follow best practices in coding. With this design, it will be simple for the existing and future developers to comprehend, debug, update, and expand the application's capabilities.
* Compatibility: The web application will be completely accessible and usable with any of the current web browsers (e.g., Google Chrome, Mozilla Firefox, Microsoft Edge, Apple Safari) as well as with different types of devices. This guarantees a consistent and stable user experience without regard to the user's preferred platform.