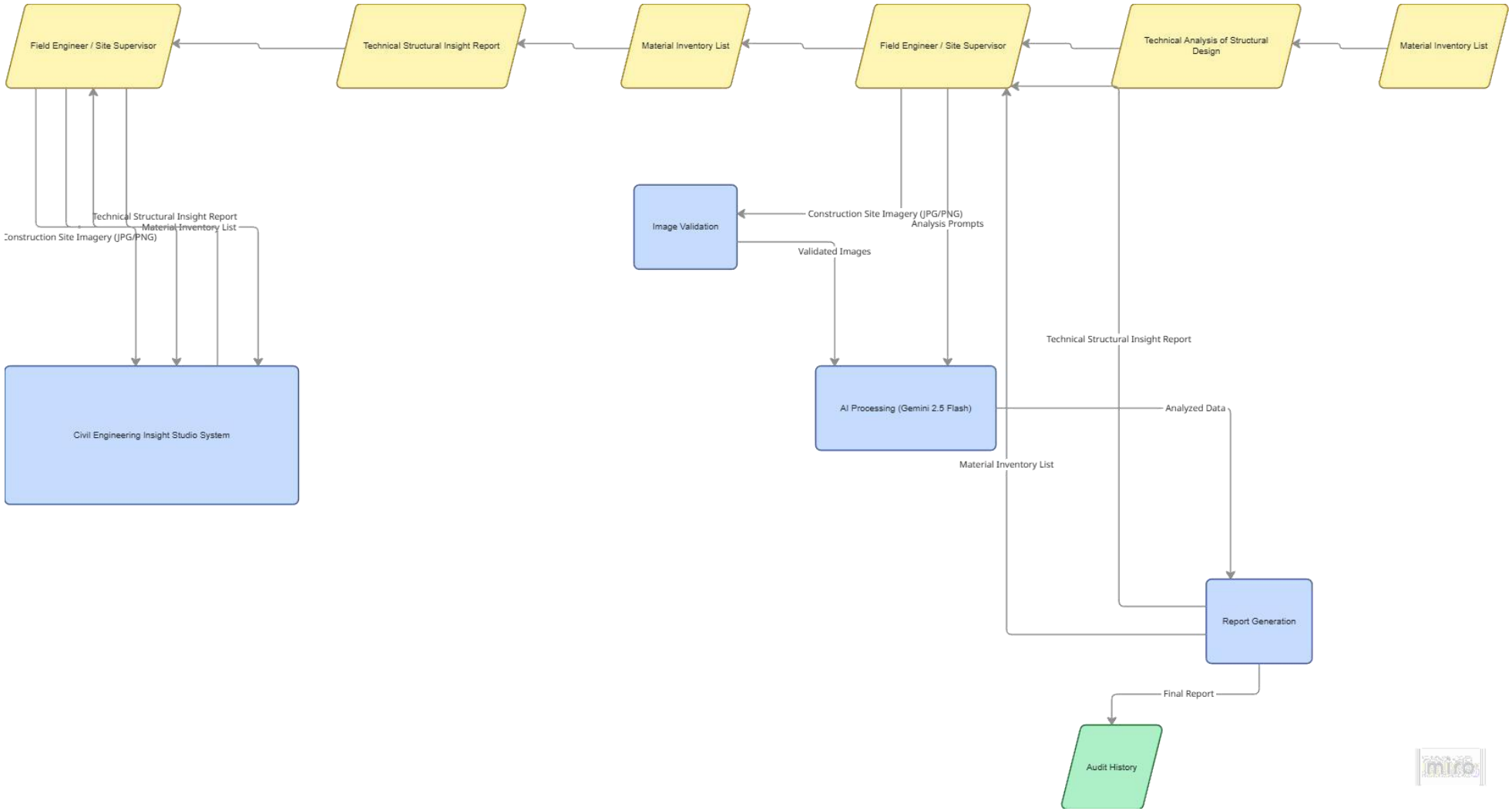
Requirement Analysis Phase-II

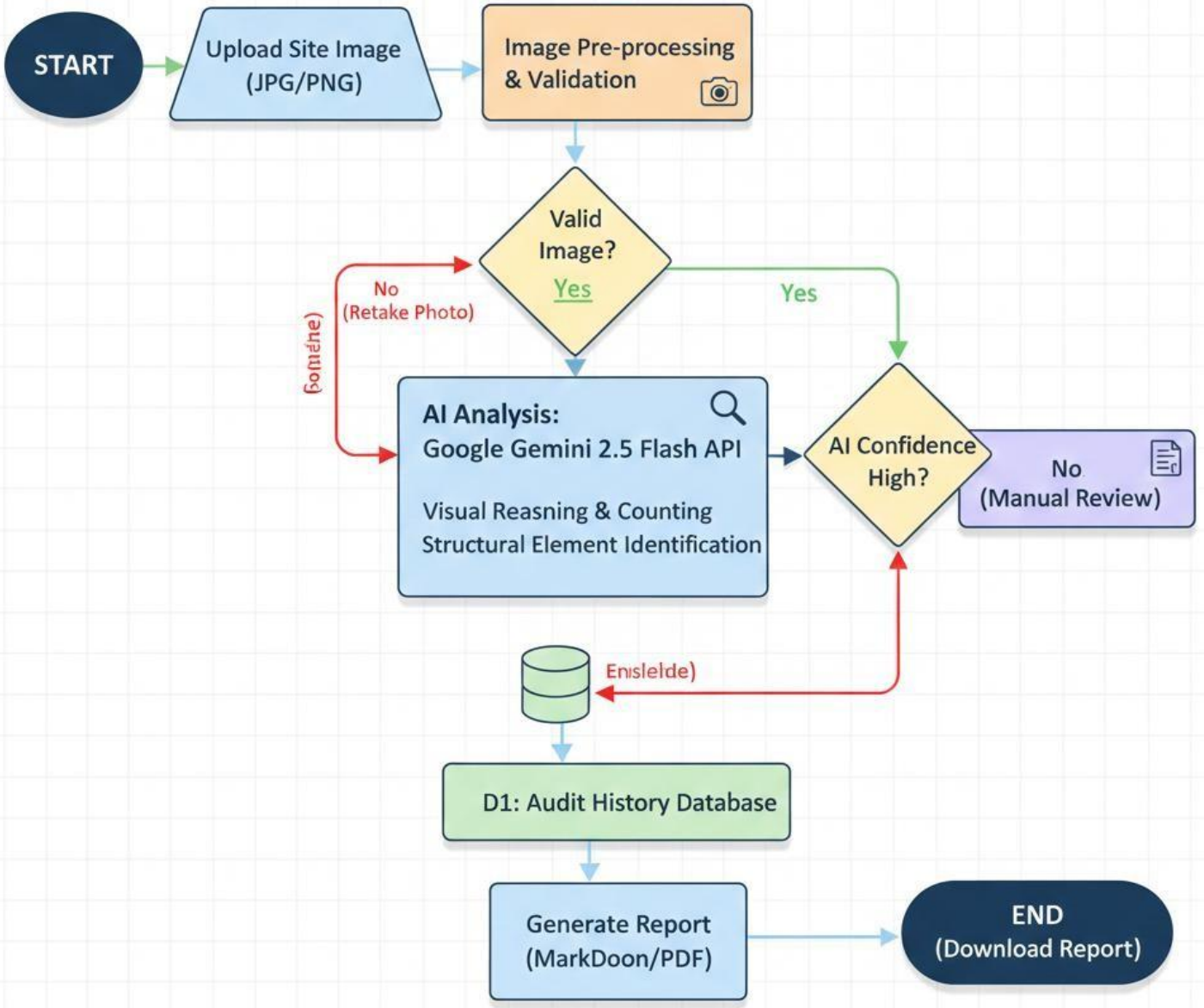
Data Flow Diagram & User Stories

Date	31 January 2025
Team ID	LTVIP2025TMID42151
Project Name	Advancing Nutrition Science Through Gemini AI
Maximum Marks	4 Marks

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Web user)	**Site Analysis**	USN-6	As a web user, I want to upload high-resolution site images so the AI can identify structural members.	System successfully accepts JPG/PNG files and triggers analysis.	High	Sprint-1
	Reporting	USN-7	As a web user, I want to download a Markdown report of the analysis to share with my project team.	A structured report is generated containing identified materials and progress.	High	Sprint-1

	Dashboard	USN-8	As a web user, I want to view a history of my previous site audits to track progress over time.	User can access a list of past uploads and their corresponding results.	Medium	Sprint-2
Customer Care Executive	**User Support**	USN-9	As a support executive, I want to view user upload logs to troubleshoot failed image processing requests.	Access to a log file showing processing status and error codes.	Medium	Sprint-2
	Feedback Management	USN-10	As a support executive, I want to review user feedback on AI accuracy to report issues to the dev team.	Access to a central dashboard containing user ratings and comments.	Low	Sprint-3
Administrator	**System Configuration**	USN-11	As an admin, I want to update the System Prompt for the Gemini API to refine the AI's technical expertise.	Ability to modify the "Expert Civil Engineer" prompt via a secure config file.	High	Sprint-1
	API Management	USN-12	As an admin, I want to monitor API usage and token consumption to manage project costs.	A dashboard showing real-time token usage and remaining budget.	High	Sprint-1
	Security	USN-13	As an admin, I want to manage user access levels to ensure only authorized engineers can upload site data.	Ability to grant, revoke, or modify user permissions.	Medium	Sprint-2



DFD Diagramatic of Civil Engineering Insight Studio

Civil Engineering Insight Studio: System Logic