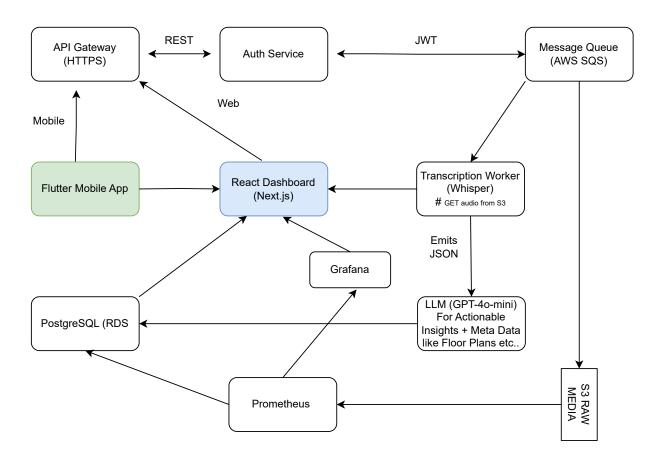
## Al Site Visit Transcriber for actionaly insights



TECH STACK	SUPPORTING REASON
FLUTTER	I used <b>Flutter</b> to ensure a <b>unified codebase</b> for both Android and iOS platforms, reducing development and maintenance effort.  Its <b>high performance and native-like UI</b> made it ideal for building a responsive mobile interface for site engineers, also since the app is not going to be too complex.
REACT	I used <b>React</b> to build a <b>dynamic and responsive dashboard</b> for architects and managers on the web.  Its <b>component-based architecture</b> and rich ecosystem enabled rapid development, scalability, and seamless integration with backend APIs.
WHISPER	I used <b>Whisper</b> for its <b>state-of-the-art transcription accuracy</b> , especially in noisy, real-world environments like construction sites.  Its <b>open-source nature and multi-language support</b> made it cost-effective, customizable, and ideal for integrating into my Al pipeline.
GPT-4o-Mini	I used <b>GPT-4o mini</b> for its <b>balanced trade-off between speed, cost, and reasoning ability</b> , making it ideal for real-time, on-device or API-based AI tasks.  Its <b>strong performance in text understanding and summarization</b> ensured high-quality extraction of insights from transcribed audio. We can also implement safeguards when Whisper fails.
AWS SQQ	I used <b>AWS SQS</b> to enable <b>reliable</b> , <b>decoupled communication</b> between services like audio upload, transcription, and processing.
Prometheus + Grafana	I used <b>Prometheus</b> and <b>Grafana</b> for <b>real-time monitoring and visualization</b> of system performance, ensuring uptime and observability.
PostgreSQL	PostgreSQL was chosen for its robust relational capabilities, making it ideal for storing structured reports, user data, and metadata with ACID compliance.
REST	I used <b>REST APIs</b> to ensure <b>clear</b> , <b>stateless communication</b> between frontend and backend services.  Their <b>widespread adoption and simplicity</b> made integration with mobile, web, and third-party systems seamless and scalable.