

ALT TEXT GENERATION



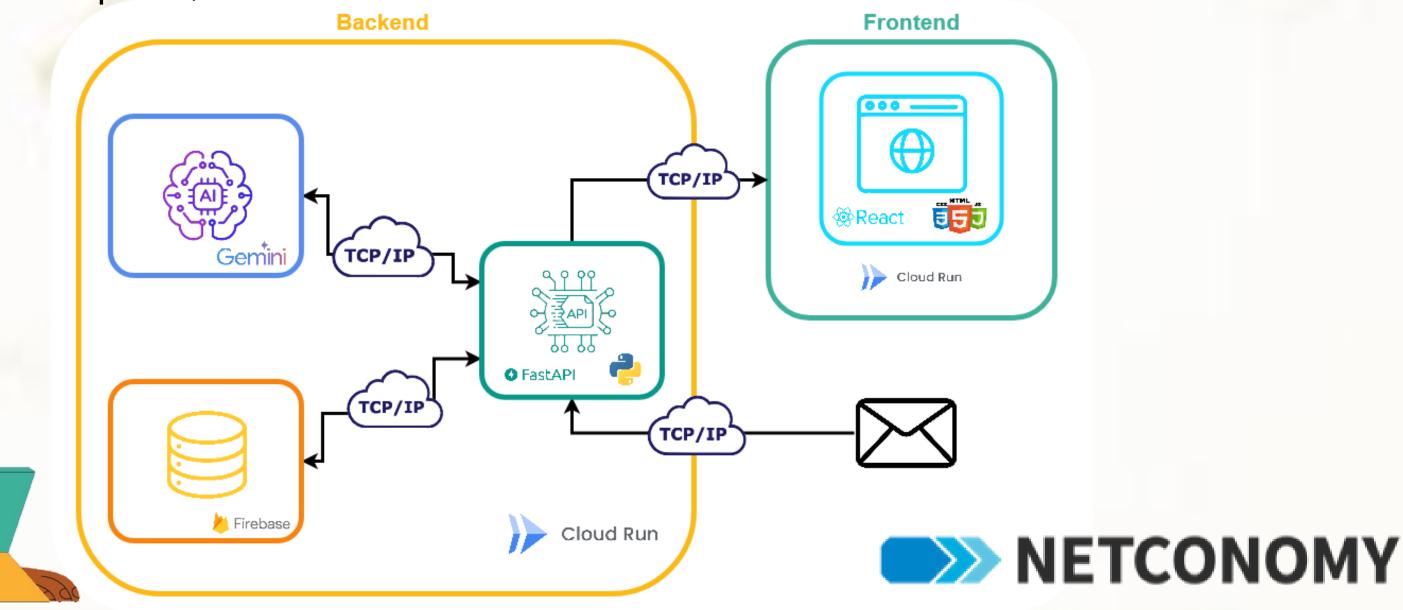


PROJECT IDEA

- The EU Accessibility Act (2025) mandates that digital services are accessible to people with disabilities.
- Alternative text (alt text) is essential for screen readers but is often missing or of poor quality. Moreover, manual annotation is costly, error-prone, and not scalable.

FUNCTIONALITY

- Automated alt text generation using an LLM (Gemini).
- Integration with content platforms
- Scalable cloud-based pipeline with monitoring and quality assurance via an Admin Web App.





- Core Service: FastAPI backend orchestrating requests and workflows.
- LLM Integration: Image-to-text generation by Gemini
- Storage: Buckets for image input and CSV processing & Firestore database for generated alt texts
- Event Handling: Google Cloud Eventarc for triggering alt-text workflows.
- Deployment & Infrastructure: Hosted by Google Cloud Plattform
- Frontend: React-based Admin interface for monitoring and QA.



