

GIC



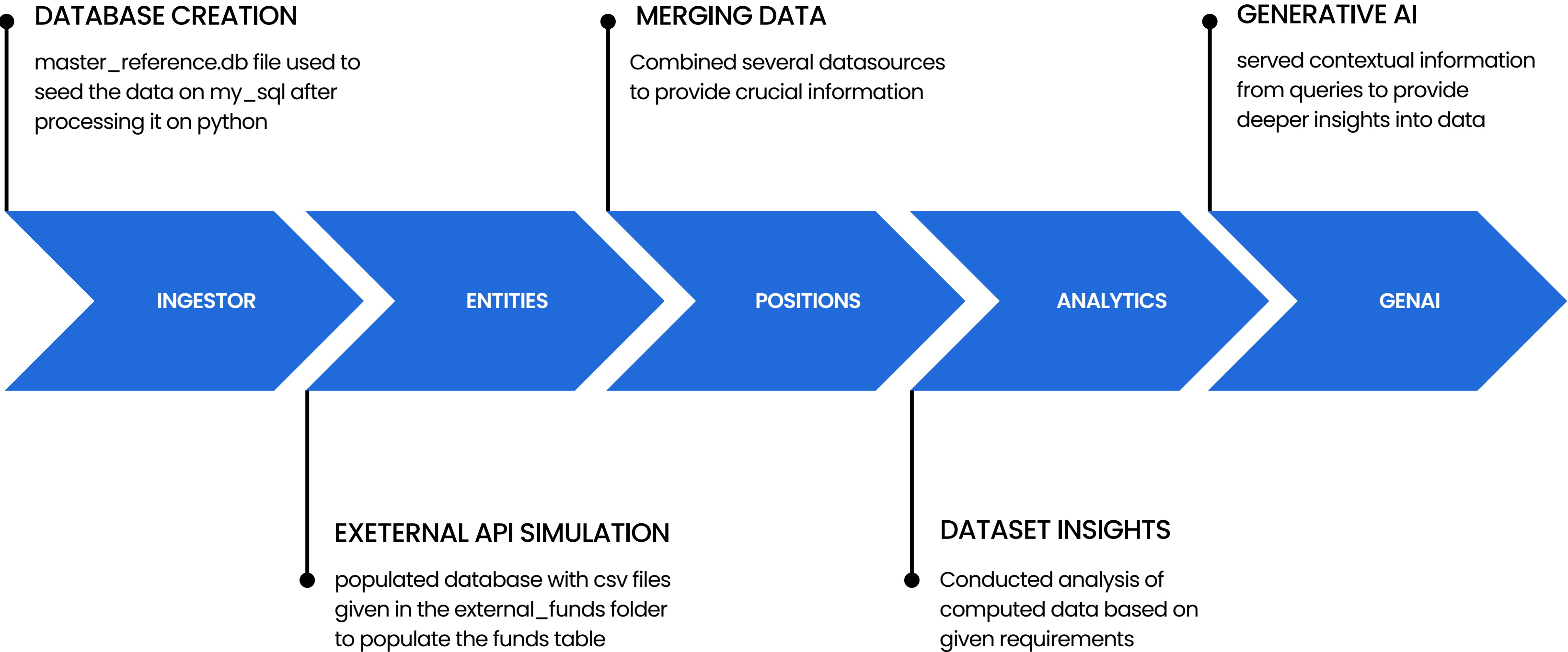
Code To Impact

KairOS

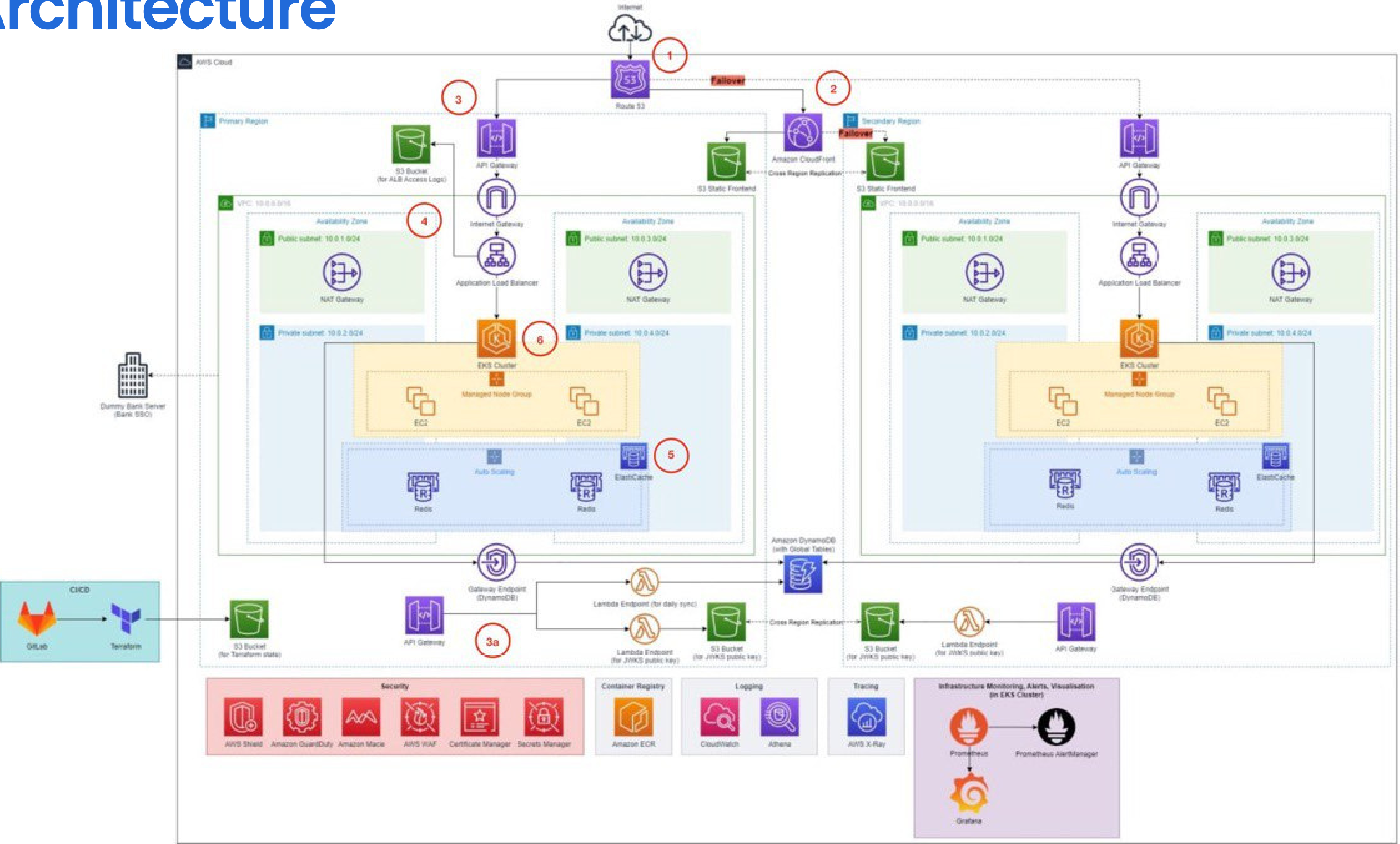


HIGH-LEVEL APPLICATION ARCHITECTURE

MODULES



Architecture

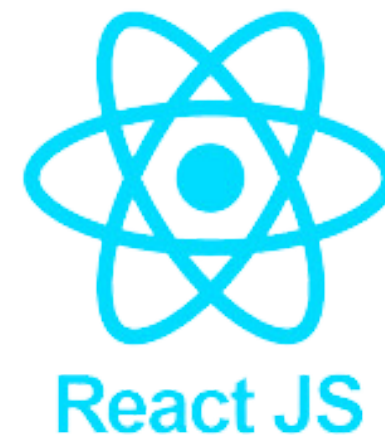


Tech Stack Choices



MySQL on AWS RDS

- RDS – Problem is Relational
- MySQL – Popular and well supported



ReactJS

- Component-Based Architecture
- Declarative UI
- Familiarity



EC2



FastAPI

EC2 –Backed FastAPI

- EC2 – Simple Deployment
- FastAPI – Fast, Data oriented platform (Python)

DEMONSTRATION

Primary Persona

MOTIVATIONS

01 Dashboard Application Analytics

02 Content Management System

03 Generation of Potential Insights

Meet Elsie, a trader who just joined GIC after graduation and has been tasked to provide periodic insights from multiple data sources.



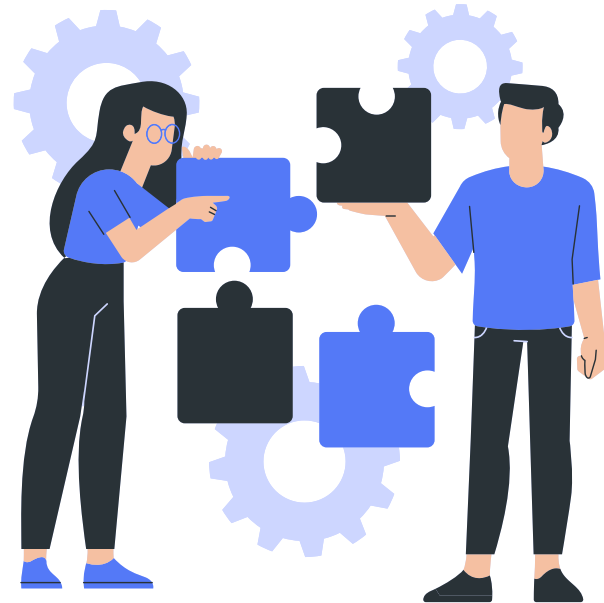
DEMONSTRATION

Application Walkthrough



LEARNING POINTS

Mistakes...



Lack of Proper Tracking

- Although work was allocated, and we had a clear role,
- We were not the most organised with individual tasks



Testing!

- Given the time constraint, we had little time to implement (any) meaningful tests

LEARNING POINTS

Takeaways



Coordination

Importance of getting on the same page
Allocating everyone to areas they excelled in



Adaptability

Keep an open mind to differing opinions
In the face of road blocks, it was critical that we worked to find alternative solutions



Time Management

24 hours isn't a lot of time, especially not with 4 people
Clearing tasks in order of priority helped us get a strong foundation

Future Works

OAUTH



- ✓ Enhanced Security
- ✓ Classified User Groups
- ✓ SSO Login

CI/CD PIPELINE



- ✓ Faster Time-to-Market
- ✓ Improved Quality
- ✓ Increased Collaboration

TESTING



- ✓ Risk Mitigation
- ✓ Quality Assurance
- ✓ Early Bug Detection

Thank you for listening

ANY QUESTIONS?

