

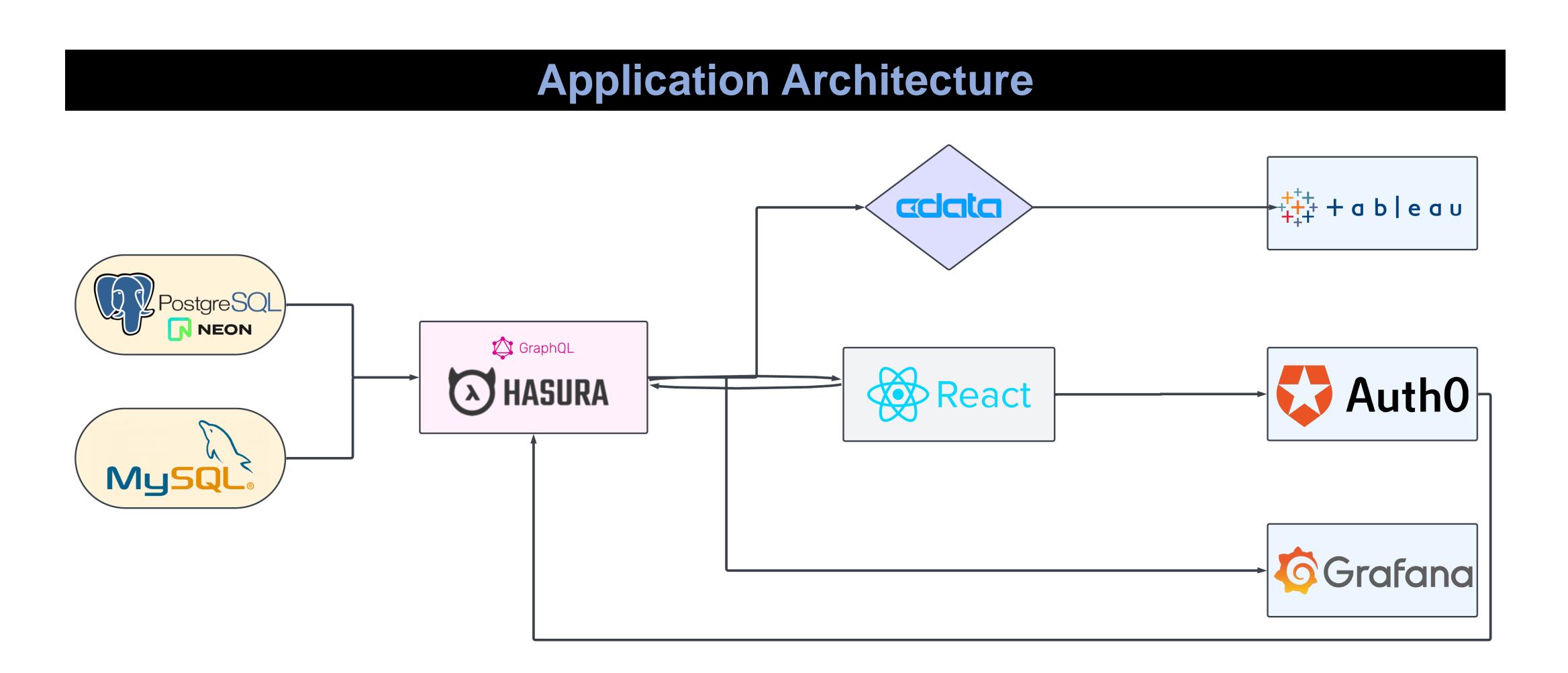


## Analyzing and Designing Complex Systems using GraphQL (Part II)

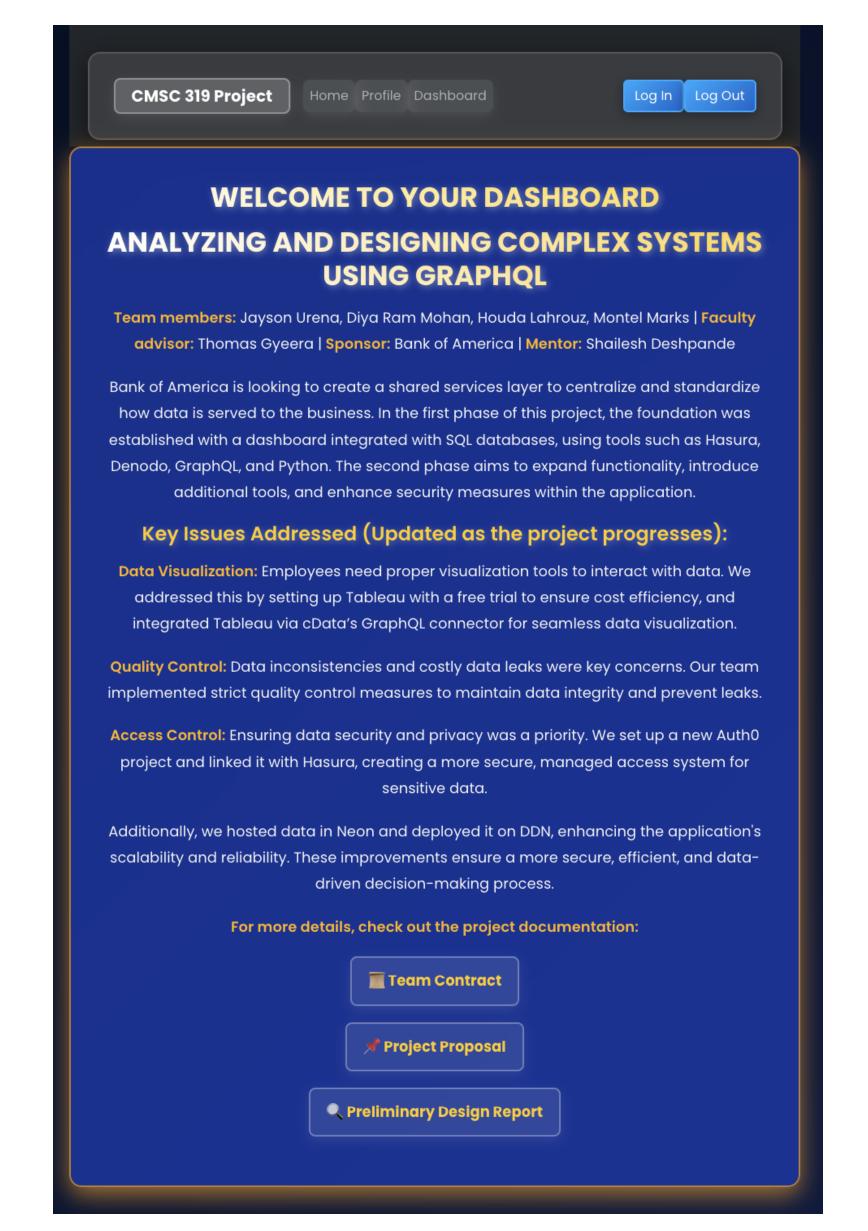
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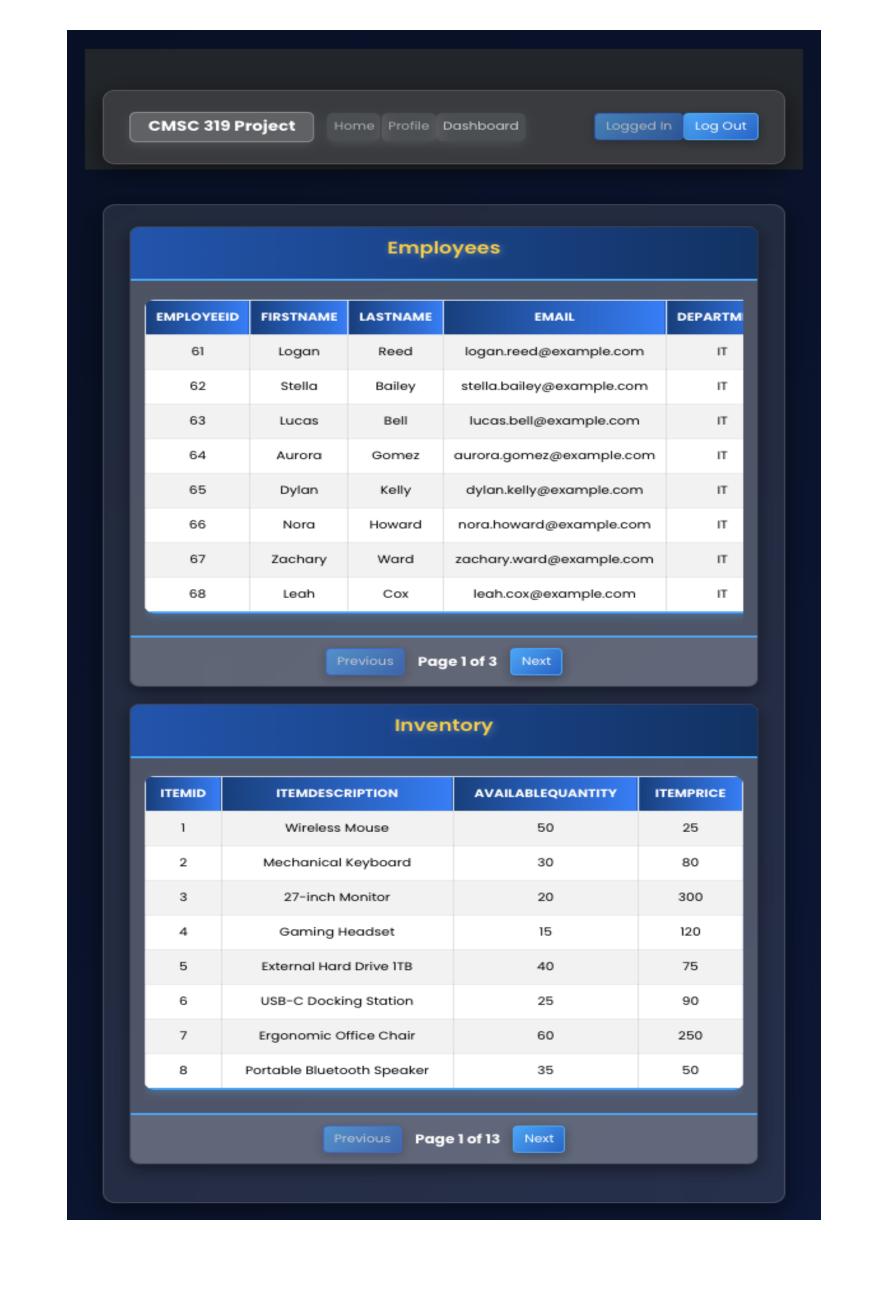
## **Background Statement**

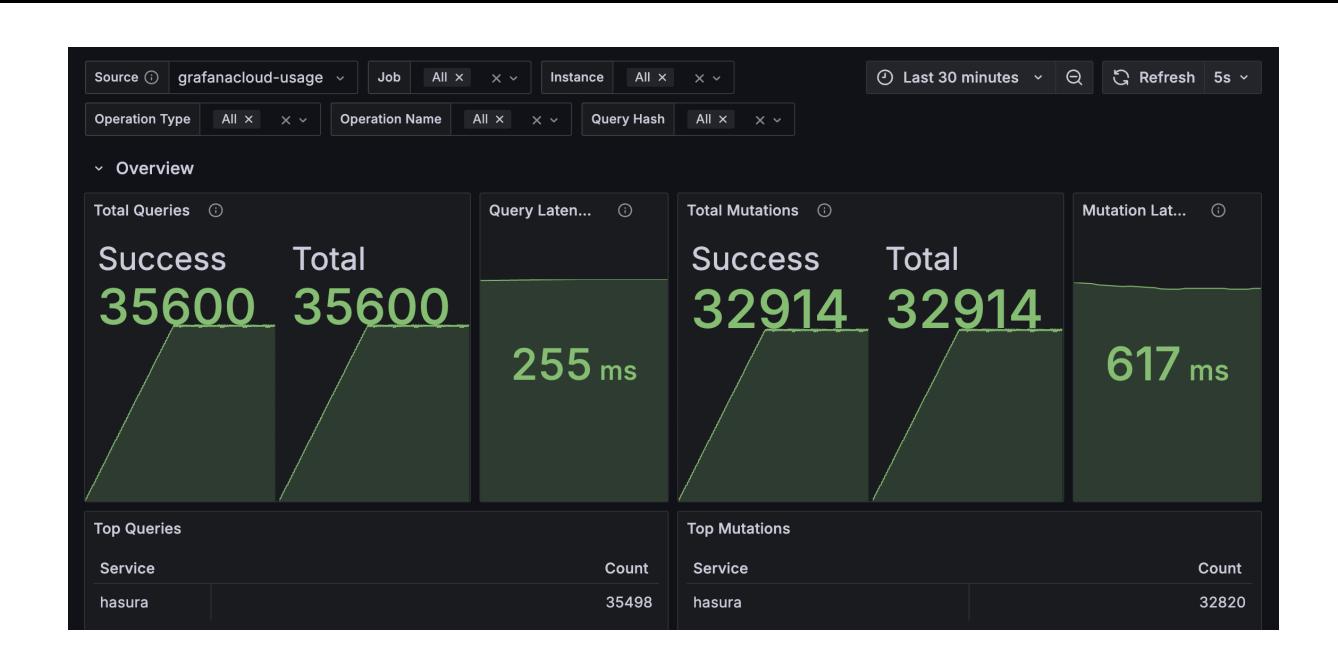
Bank of America wants to enhance their shared services layer to produce robust data visualization, quality control, and access control. To enhance decision-making and security, our project focuses on integrating new tools, developing key features, and strengthening data management centered on Hasura and GraphQL.



## React Application









## Proposed Solutions Table

Deliverable	Solution
GraphQL	Hasura is a GraphQL Engine that intakes multiple data sources and creates a structured metadata cloud database.
Data Visualization - Tableau	CData is a Web Data Connector that reads GraphQL metadata structures used to funnel data from Hasura to Tableau.
Data Governance	Auth0 is a security platform that allows developers to add authentication and user-management tools to their software.
Data Quality	Grafana Cloud encompasses a plethora of data quality indicators including Promethus, OpenTelemetry, Loki, and Tempo that are used in order to create dashboards, trace queries, and log usage.











