

Ajua Bank - Architecture Explanation

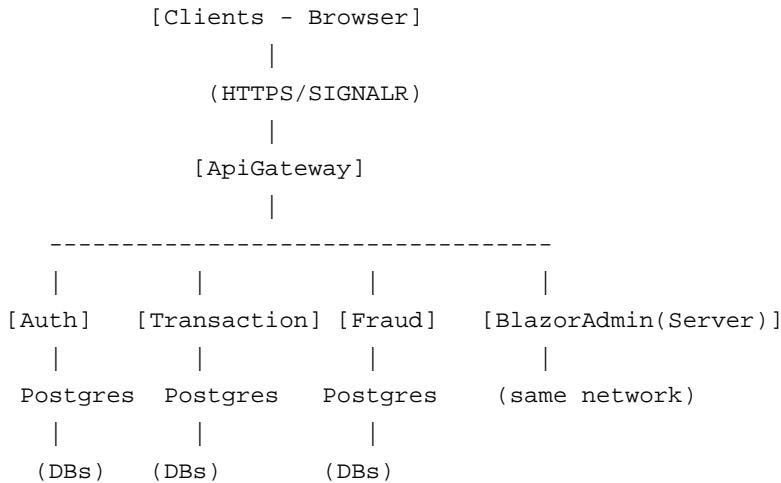
Design choice: Blazor Server + .NET 8 microservices

Because you selected Blazor Server, the admin UI runs on the server and communicates with users via SignalR. This doc explains how frontend and backend relate, and shows a high-level architecture layout.

Legend:

- Blazor Server: UI hosted on server (C# components)
- ApiGateway: Edge routing and auth
- Microservices: Auth, Transactions, Fraud Detection
- PostgreSQL: Relational data store (per service or shared)
- Message Broker: RabbitMQ (recommended) for async events

ASCII Architecture Layout



Notes:

- Blazor Server hosts UI on server; front-end code is C# Razor components.
- ApiGateway routes requests, handles TLS termination and JWT validation.
- TransactionService publishes events to Message Broker; FraudService consumes and scores.
- Use Docker Compose for local development (included).