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Distributed Notes

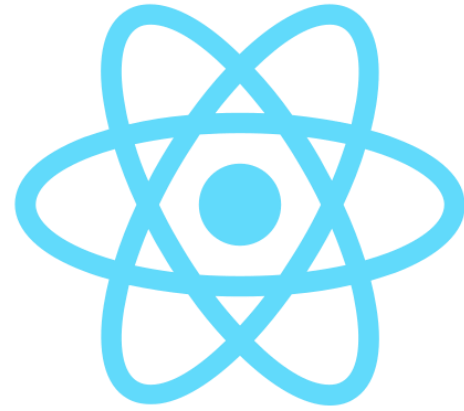
Application Overview

- CRUD Notes
- Login & Register
- Distributed Architecture

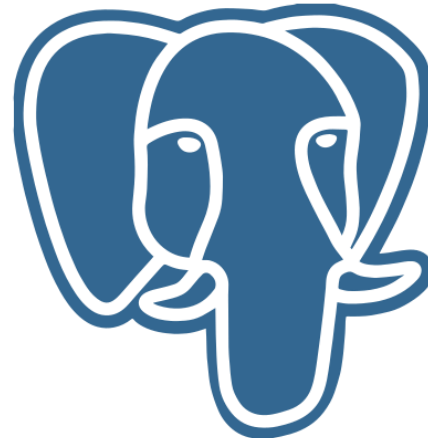


Components

- Frontend
- Load Balancer
- Backend
- Database



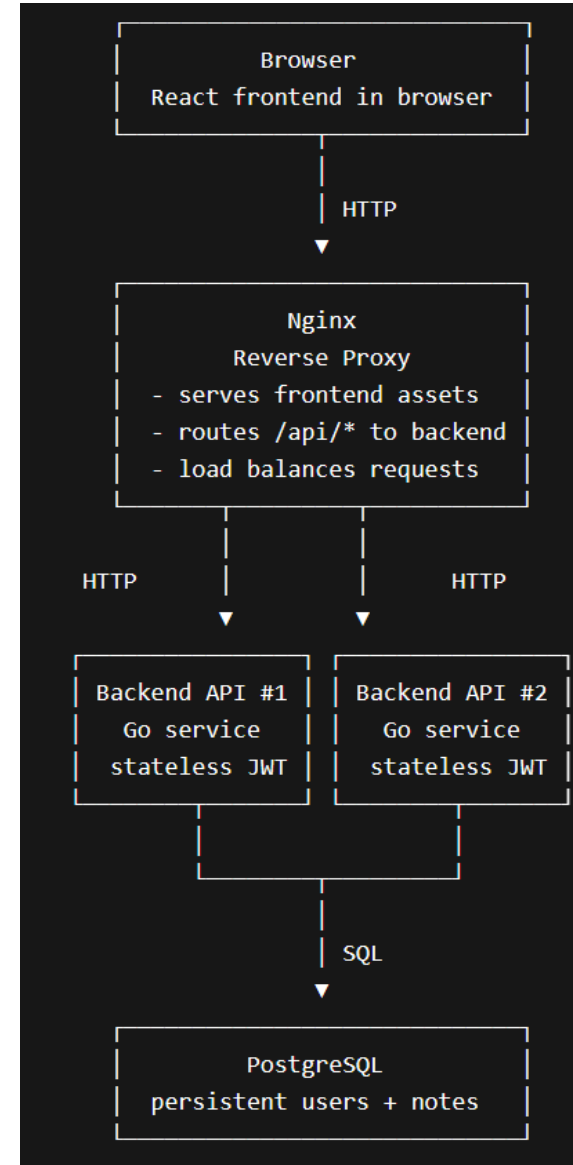
React



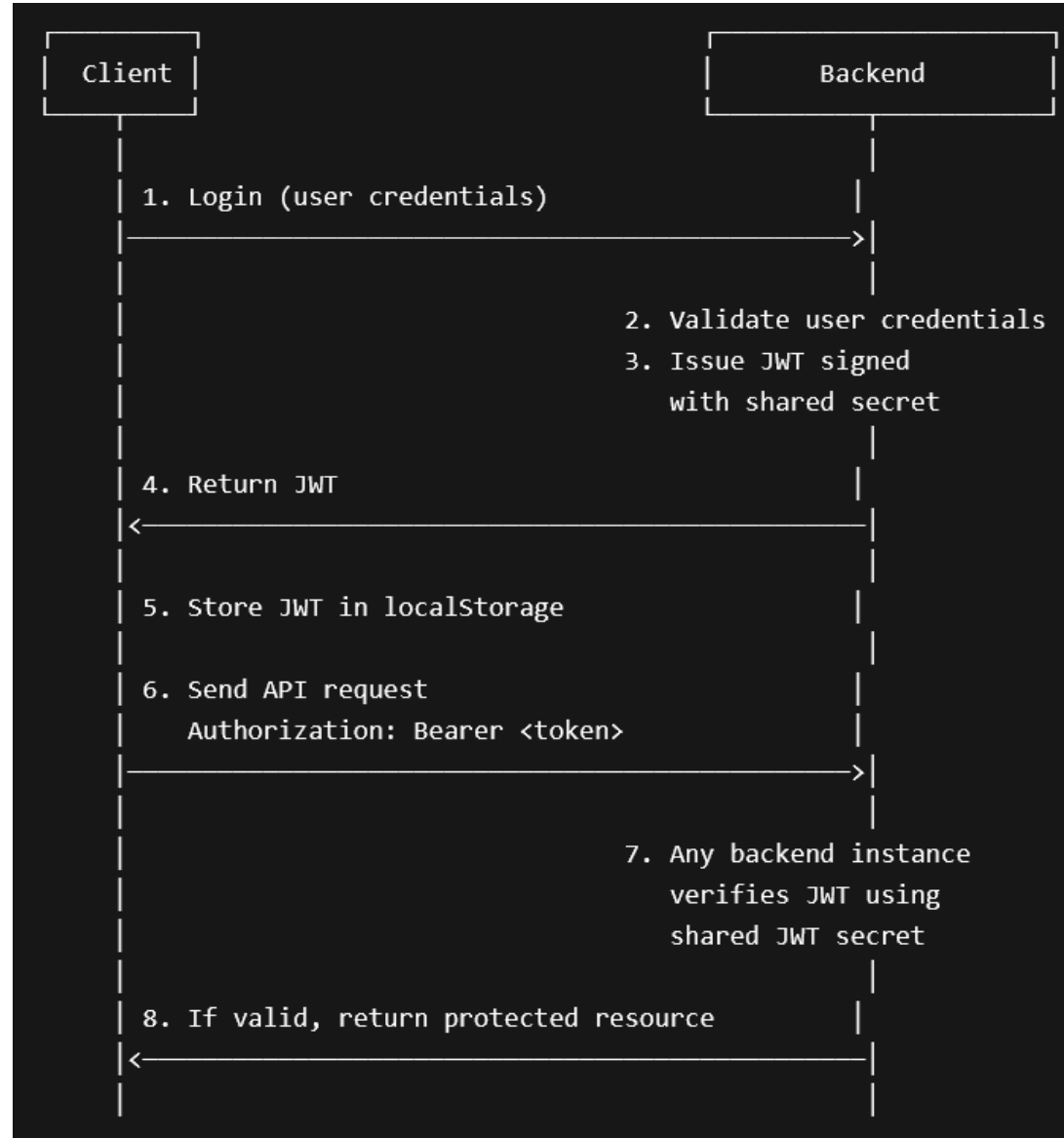
PostgreSQL



Architecture

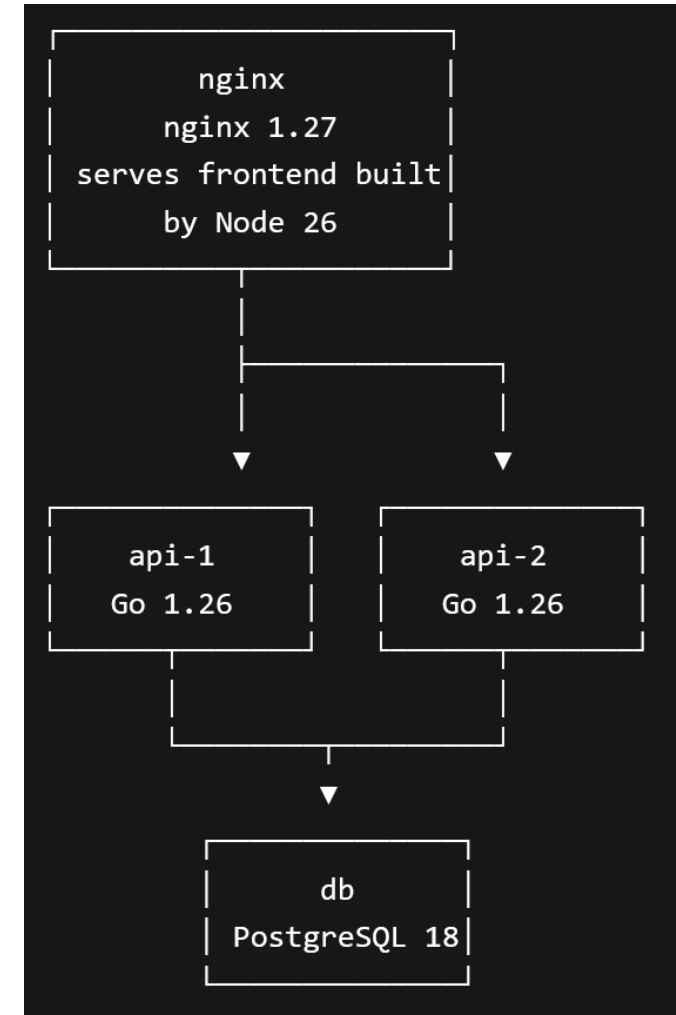


Authentication Flow



Deployment

- `Docker compose up --build --scale api=2`



Load Test

- GET /api/notes

Concurrency	Req/s	Median Latency	P99 Latency	System State
10	1087	2ms	4ms	Good
25	585	5ms	9ms	Near Saturation
35	578	7ms	12ms	Saturated

Demo



Questions

