

BuildOS API Platform



Active

Started Oct 14, 2025 Due Dec 31, 2025

Project Overview

This is a comprehensive platform redesign project aimed at modernizing our API infrastructure and improving developer experience. The project encompasses multiple workstreams including backend modernization, frontend optimization, and documentation enhancement.

Goals

- Reduce API response time by 40%
- Implement GraphQL alongside REST endpoints
- Create interactive API documentation
- Achieve 99.9% uptime SLA

Current Status

We've completed the initial architecture review and have begun implementation of the core GraphQL layer. The team is currently working on:

1. Schema design and type definitions
2. Resolver implementation for core entities
3. Integration with existing REST services
4. Performance benchmarking infrastructure

Technical Approach

Our technical approach emphasizes **incremental migration** and *backward compatibility*. We're using the following stack:

```
// GraphQL Schema Example
type Query {
  project(id: ID!): Project
  projects(status: String): [Project!]!
}

type Project {
  id: ID!
  name: String!
  status: ProjectStatus!
  context: String
}
```

Key Challenges

The biggest challenge we're facing is maintaining data consistency across both REST and GraphQL APIs during the migration period. We need to ensure that clients using either interface see the same data state.

Mitigation Strategies

Challenge	Strategy	Owner
Data consistency	Implement event sourcing pattern	Backend Team
Performance degradation	Aggressive caching with Redis	Infrastructure Team
Developer adoption	Comprehensive docs + workshops	DevRel Team

Next Steps

Over the next two weeks, we'll be focusing on completing the GraphQL implementation for the `projects` and `tasks` resources. This includes:

- Finalizing schema definitions
- Writing comprehensive resolver tests
- Setting up Apollo Server infrastructure
- Creating migration documentation

For more details, see the [technical documentation](https://docs.buildos.com/api-platform) (<https://docs.buildos.com/api-platform>) or reach out to the platform team on Slack.