

Technical Guide Template

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1 Quick Start

```
Repository: [URL]
Language: [Version]
Framework: [Version]
Build Tool: [Version]
```

2 Development Setup

```
# Prerequisites
required-tool --version

# Installation
git clone [repo]
cd [project]
make install

# Development
make dev
```

3 Architecture Overview

```
@startuml
package "System Components" {
```

```
[Frontend Layer]
[API Gateway]
[Service Layer]
[Data Layer]

[Frontend Layer] --> [API Gateway]
[API Gateway] --> [Service Layer]
[Service Layer] --> [Data Layer]
}

cloud "External Systems" {
    [Third Party Services]
}

[API Gateway] --> [Third Party Services]
@enduml
```

4 System Components

1. Core Services

- Service 1: [Purpose & Responsibility]
- Service 2: [Purpose & Responsibility]

2. Technical Stack

```
Frontend:
Framework: [name]
State Management: [solution]
UI Components: [library]
```

```
Backend:
```

```
API Gateway: [solution]
Services: [framework]
Data Store: [database]
```

Infrastructure:

```
Cloud: [provider]
Containers: [platform]
Monitoring: [tools]
```

5 Integration Patterns

Synchronous:

- REST APIs
- GraphQL
- gRPC

Asynchronous:

- Message Queue
- Event Bus
- Webhooks

Data Flow:

- CQRS
- Event Sourcing
- Saga Pattern