Full Stack Application Architecture

🖥️ Frontend Layer

```
User Interaction
↓
Components (/src/components/*)
↓
Pages (/src/pages/*)
↓
API Service (/src/services/api.ts)
```

↓

🌐 API Request Flow

```
HTTP/WebSocket Request
↓
Route Handler (/src/routes/*)
↓
Middleware (/src/middleware/*)
↓
Controller (/src/controllers/*)
```

↓

🗄 Business Logic Layer

```
Service Layer (/src/services/*)
↓
Data Models (/src/models/*)
↓
Data Validation
```

↓

🛢 Database Layer

```
Database Query
↓
Data Storage
↑
Response Data
```

↑

JSON Response ← Controller ← Service ← Database

↑

Frontend Client Receives Data

📄 Configuration Files

- .env (Environment)
- tsconfig.json
- README.md

- package.json
- .gitignore
- docker-compose.yml