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Angular Framework — Development & Deployment Guide
Overview
Angular is a TypeScript-based web framework by Google for single-page applications.
Core Concepts
- Components
- Templates
- Modules
- Services
- Routing
Setup
1. Install Node.js and npm.
2. Install Angular CLI: npm install -g @angular/cli
3. Create new project: ng new my-app
4. Serve: ng serve --open
Component Example
import { Component } from '@angular/core';
@Component({
selector: 'app-hello',
template: `Hello {{name}}`
export class HelloComponent { name = 'World'; }
Common Errors
| Issue | Cause | Solution |
| ng serve fails | Missing node modules | npm install |
| Blank page | Routing issue | Check app-routing.module.ts |
| API not working | CORS issue | Enable CORS on backend |
Integration with Backend
- Use HttpClient for API requests.
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- Use JWT for authentication.

Deployment

- Build production version: ng build --prod
- Host on Firebase or Nginx.

Best Practices

- Use lazy loading.
- Keep components small.
- Use Angular Material for UI.