# Angular Guide: Advanced Concepts

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## 1 Advanced Angular Concepts

Lifecycle hooks: Use hooks like ngOnInit and ngOnDestroy to manage component lifecycle.

Content Projection: Use ng-content to project content into components.

Change Detection Strategy: Optimize performance with OnPush strategy.

State Management: Use NgRx for managing application state.

## 2. Styling and Theming

Component styles: Style components using CSSor SCSS

Global styles: Define global styles in styles.cssor styles.scss

Angular Material introduction : Use Angular Material for UI components.

## 3. Testing in Angular

Unit testing with Jasmine& Karma: Write unit tests for components and services

E2Etesting with Protractor: Testthe entire application flow.

## 4. Build & Deployment

Production build commands: Use `ng build --prod` for production builds.

Deploying Angular app: Deploy to Firebase, Netlify, or GitHub Pages

## 5. Mini Projects & Examples

Todo App: Create a simple todo application.

Weather App using API: Build a weather app using a public API.

Simple CRUDwith Firebase Implement CRUDoperations using Firebase

## 6. Resources& Cheat Sheets

Angular Official Docs: Comprehensive documentation for Angular.

Angular Material UI: Explore UI components for Angular.

Roadmap links: Follow the Angular roadmap for future updates.

GitHub repositories: Explore open-source Angular projects on GitHub.

## Further Learning

Explore videos, blogs, and documentation for further learning.

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