Angular Level 2 Certification

- 1. Advanced Component Features
 - Content projection and ng-content
 - View encapsulation strategies
 - Dynamic component loading
- 2. Building Custom Directives
 - Creating structural and attribute directives
 - Advanced directive behavior (host listeners and bindings)
- 3. Introduction to State Management
 - State management patterns and best practices
 - Using services and RxJS for state management
- 4. NgRx
 - Core concepts: Actions, Reducers, Selectors, and Effects
 - Setting up NgRx in an Angular application
 - Architecting the store, managing side effects
- 5. Change Detection and Zones
 - Change detection strategies (Default vs. OnPush)
 - Zones and manual change detection
- 6. Performance Techniques
 - Lazy loading modules and components
 - Preloading strategies for modules
 - Optimizing templates and tracking performance
- 7. Complex Routing Scenarios
 - Nested routes and multiple router outlets
 - Handling large routing configurations
- 8. Route Guards and Resolvers
 - Implementing advanced guards (CanLoad, CanActivateChild)
 - Using resolvers for pre-fetching data
- 9. Dynamic Forms
 - Dynamic form creation and configuration
 - Advanced validations and custom validators
- 10. Integrating Third-Party Form Libraries
 - Overview of popular Angular-compatible form libraries
 - Best practices for integration and customization
- 11. Introduction to Angular Universal
 - Benefits of SSR
 - Setting up SSR with Angular Universal
- 12. Pre-rendering and SEO Considerations
 - Strategies for SEO optimization
 - Handling common issues in SSR (Window, Document, etc.)
- 13. Theming and Styling
 - Custom themes and overriding styles

- Building responsive layouts with Angular Flex Layout
- 14. Advanced Components and APIs
 - Using dialogues, snack bars, and custom data tables
 - Advanced data table optimizations and customizations
- 15. Advanced HTTP Communication
 - Using interceptors for request and response handling
 - Techniques for dealing with web sockets and real-time data
- 16. Microservices Architecture
 - Understanding microservices architecture
 - Best practices for integrating Angular with microservices
- 17. Advanced Testing Techniques
 - Integration testing
 - End-to-end testing with Protractor and Cypress
- 18. Deployment and Continuous Integration
 - Building for production
 - Continuous Integration (CI) practices with Angular
- 19. Capstone Project Capstone Project