

Angular 15

- Day - 1
 - Building a walking skeleton Part Two - Angular - **1hr 15min**
 - Creating the Angular application
 - Running the angular project and reviewing the bootstrap of the app
 - Adding VS Code extensions to work with Angular.
 - Making HTTP requests in Angular
 - Adding CORS support in the API
 - Displaying the fetched users in the browser
 - Adding bootstrap and font-awesome - Optional
 - Adding HTTPS to Angular using mkcert
 - Saving into source control.
 - Client login and register - **2hr**
 - Creating a nav bar
 - Introduction to Angular template forms
 - Introduction to Angular services
 - Injecting services into components
 - Using conditionals to show and remove content.
 - Using the angular bootstrap components - dropdown
 - Introduction to observables
 - Persisting the login
 - Adding a home page
 - Adding a register form
 - Parent to child communication
 - Child to parent communication
 - Hooking up the register method to the service
 - Using Pipes to Transform Output – **45 minutes.**
 - Introduction & Why Pipes are Useful.
 - Using Pipes
 - Parametrizing Pipes
 - Where to learn more about Pipes
 - Chaining Multiple Pipes
 - Creating a Custom Pipe
 - Parametrizing a Custom Pipe
 - Example: Creating a Filter Pipe
 - Pure and Impure Pipes (or: How to "fix" the Filter Pipe)
 - Understanding the "async" Pipe

- Day - 2
 - Routing in Angular – **1hr**
 - Creating some more components
 - Adding the nav links
 - Routing in code
 - Adding a toast service for notifications
 - Adding an Angular route guard
 - Adding a dummy route
 - Adding a new theme
 - Tidying up the app module by using a shared module
 - Authentication & Route Protection - **2hr**
 - Authentication & Route Protection
 - How Authentication Works
 - Adding the Auth Page
 - Switching Between Auth Modes
 - Handling Form Input
 - Preparing the Backend
 - Make sure you got Recipes in your backend!
 - Preparing the Signup Request
 - Sending the Signup Request
 - Adding a Loading Spinner & Error Handling Logic
 - Improving Error Handling
 - Sending Login Requests
 - Login Error Handling
 - Creating & Storing the User Data
 - Reflecting the Auth State in the UI
 - Adding the Token to Outgoing Requests
 - Attaching the Token with an Interceptor
 - Adding Logout
 - Adding Auto-Login
 - Adding Auto-Logout
 - Adding an Auth Guard
 - Dynamic Components – **1hr**
 - Adding an Alert Modal Component
 - Understanding the Different Approaches
 - Using ngIf
 - Preparing Programmatic Creation

- Creating a Component Programmatically
 - About entryComponents
 - Understanding entryComponents
 - Data Binding & Event Binding
- Day - 3
 - Building the user Interface – **1hr**
 - Using TypeScript
 - Creating the member interface
 - Adding a member service
 - Retrieving the list of members
 - Creating member cards
 - Adding animated buttons
 - Using an interceptor to send the token.
 - Routing to the detailed page
 - Styling the member detailed page
 - Styling the member detailed page part two
 - Adding a photo gallery (Angular 16+)
 - Updating resources – **1hr**
 - Creating a member edit component.
 - Creating the edit template form
 - Adding the update functionality
 - Adding a Can Deactivate route guard.
 - Persisting the changes in the API
 - Updating the user in the client app
 - Adding loading indicators
 - Using the service to store state
 - Adding photo upload functionality – **1hr**
 - Configuring cloud in the API
 - Adding a photo service
 - Testing the photo upload
 - Using the Created at Route method
 - Adding a photo editor component
 - Adding a photo uploader
 - Adding the main photo image to the nav bar
 - Setting the main photo in the client
 - Deleting photos

- Day - 4
 - Reactive forms – **1hr 30 minutes**
 - Reactive forms introduction
 - Client side validation
 - Adding custom validators
 - Validation feedback
 - Creating a reusable text input
 - Using the form builder service
 - Expanding the register form
 - Adding a reusable date input
 - Updating the API register method
 - Client side registration
 - Paging Sorting and Filtering - **2hr 50 minutes**
 - Adding a paged list class
 - Adding helper classes for pagination
 - Using the pagination classes
 - Setting up client pagination
 - Using the angular bootstrap pagination component
 - Adding additional filters
 - Cleaning up the member service
 - Adding filter buttons to the client
 - Adding sorting functionality
 - Adding an action filter
 - Making the Last Active action filter more optimal
 - Sorting on the client
 - Formatting dates
 - Restoring the caching for members
 - Restoring caching for member detailed
 - Remembering the filters for a user in the service
- Day -5
 - Adding the Like user feature – **30 minutes**
 - Setting up the likes functions
 - Adding the likes component
 - Adding pagination for the likes
 - Paginating the likes on the client
 - Deployment - **15 minutes**
 - Deployment Preparation & Steps
 - Using Environment Variables

- Deploying Angular Applications
- Deployment Example: Firebase Hosting
- Server Routing vs Browser Routing
- Using NgRx for State Management – **4hr (Optional)**
 - What Is NgRx?
 - Understanding NgRx & Its Building Blocks
 - Project Setup & Installing NgRx
 - Adding a First Reducer & Store Setup
 - An Alternative Way Of Creating Reducers
 - Reading Data From The Store
 - Introducing Actions & State Changing Reducers
 - Dispatching Actions
 - Attaching Data To Actions
 - Handling Actions Without createReducer
 - An Alternative Way Of Defining Actions
 - Time To Practice: A Second Action
 - Exploring Selectors
 - Introducing Effects
 - Installing the Effects Package
 - Defining a First Effect
 - The Old @Effect Decorator & Registering Effects
 - Using Store Data In Effects
 - Adding a Second Effect
 - About The Remaining Section
 - Recipe Project Starting Code
 - Getting Started with Reducers
 - Adding Logic to the Reducer
 - Understanding & Adding Actions
 - Setting Up the NgRx Store
 - Selecting State
 - Dispatching Actions
 - Multiple Actions
 - Preparing Update & Delete Actions
 - Updating & Deleting Ingredients
 - Expanding the State
 - Managing More State via NgRx
 - Removing Redundant Component State Management
 - One Root State

- Setting Up Auth Reducer & Actions
- Dispatching Auth Actions
- Auth Finished
- And Important Note on Actions
- Exploring NgRx Effects
- Defining the First Effect
- Important: Avoid @Effect
- Effects & Error Handling
- Login via NgRx Effects
- Managing UI State in NgRx
- Finishing the Login Effect
- Preparing Other Auth Actions
- Adding Signup
- Further Auth Effects
- Adding Auto-Login with NgRx
- Adding Auto-Logout
- Finishing the Auth Effects
- Using the Store Devtools
- The Router Store
- Getting Started with NgRx for Recipes
- Fetching Recipe Detail Data
- Fetching Recipes & Using the Resolver
- Fixing the Auth Redirect
- Update, Delete and Add Recipes
- Storing Recipes via Effects
- Alternative NgRx Syntax
- Day – 6
 - Basic Introduction to Unit Testing (Karma and Jasmine)
 - Unit Testing
 - Creating our first unit test
 - Running unit tests using Karma
 - Creating a service to test
 - Unit testing the service.
 - Adding a Component and some fitting Tests.
 - Creating a component to test.
 - Component fixture for unit testing.
 - Handling dependencies for component tests.
 - Testing Dependencies: Components and Services.

- Testing a component property that loads from `ngOnInit`.
- Testing a components UI functionality.
- Using `"fakeAsync"` and `"tick"`
- Isolated vs Non-Isolated Tests