

Front End Development

1. Introduction to Angular

- Introduction to Angular
- What is Angular?
- Architecture of Angular Apps
- Setting up Development Environment
- Your first Angular App
- Structure of Angular Apps
- Web Pack

2. Angular Fundamentals

- Introduction
- Building Blocks of Angular Apps
- Components
- Generating Components using Angular CLI
- Templates
- Directives
- Services
- Dependency Injection
- Generating Services using Angular CLI

3. Display Data and Handling Events

- Introduction
- Property Binding
- Attribute Binding
- Adding Bootstrap
- Class Binding
- Style Binding
- Event Binding
- Template Variables
- Two Way Bindings
- Pipes
- Custom Pipes

4. Building Re usable Components

- Introduction
- Component API
- Input Properties
- Aliasing Input Properties
- Output Properties
- Passing event data
- Aliasing Output Properties
- Templates
- Styles
- View Encapsulation
- ngContent
- ngContainer

5. Directives

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- ngIf
- Hidden Property
- ngSwitch Case
- ngFor
- ngFor and Change Detection
- ngFor and Track By
- The Leading Asterisk
- ngClass
- ngStyle
- Safe Traversal Operator
- Creating Custom Directives

6. Template Driven forms

- Introduction
- Building a Bootstrap Form
- Types of Forms
- ngModel
- Adding Validation
- Specific Validation Errors
- Style Invalid Input
- Cleaner Templates
- ngForm
- ng Model Group
- Control Classes and Directives
- Disabling the submit button
- Working with Check boxes
- Working with Drop down lists
- Working with Radio Buttons

7. Consuming HTTP Services

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- JSON Placeholder
- Getting Data
- Creating Data
- Updating Data
- onInit Interface
- Separation of Concerns
- Extracting a service
- Handling Errors
- Handling unexpected errors
- Handling Expected Errors
- Throwing Application Specific Errors
- Handling Bad Request errors
- Import Observable Operators and Factory Methods
- Global Error Handling
- Extracting Reusable Error Handling Method
- Extracting Reusable, a Data Service
- The Map Operator
- Optimistic vs Pessimistic updates

8. Routing and Navigation

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- Configure routes
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- Router Link
- Router Link Active
- Getting Route Parameters
- Why Routes parameters are observable
- Routes with Multiple Parameters
- Query Parameters
- Subscribing to Multiple Observable
- The Switch Map Operator
- Programmatic Navigation
- Displaying Toast notification.

9. Introduction to React

- What is React?
- Setting up the Development Environment
- Hello react
- Custom Config
- Full Stack Architecture

10. ES6 Refresher

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- Let vs Var vs Const
- Objects
- The “this” Keyword
- Binding this
- Arrow function
- Arrow functions and this
- Array map method
- Object Destructuring
- Spread Operator
- Classes
- Inheritance
- Modules
- Named and Default Exports

11. Components

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- Setting up the project
- Your First React Component
- Embedding Expressions
- Setting Attributes
- Rendering Classes Dynamically
- Rendering Lists

- Conditional Rendering
- Handling Event
- Binding Event Handlers
- Updating the State
- What happens when State change
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12. Composing Components

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- Composing Components
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- Debugging React App
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- Multiple Component in Sync
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13. Pagination, Filtering and Sorting

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- Pagination – Display Pages
- Pagination – Handling Page Changes
- Pagination – Paginating Data
- Pagination – Type Checking with Porotypes
- Filtering – Component Interface
- Filtering – Display Items
- Filtering – Default Props
- Filtering – Handling Selection
- Filtering – Implementing Filtering
- Sorting – Extracting
- Sorting – Raising Sort Event
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14. Routing

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15. Forms

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- Handling Multiple Inputs
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- A Basic Validation Implementation
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- Validating a Form using JOI
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16. Calling Backend Services

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- Creating Data
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- Updating Data
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- Optimistic vs Pessimistic Updated
- Expected vs Unexpected Errors
- Handling Unexpected Errors Globally
- Extracting a Reusable Http Service
- Extracting a Config Module
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