ANGULAR

Type Script Fundamentals

1. Basic Setup
2. Introduction
3. What is TypeScript?
4. Your First TypeScript Program
5. Declaring Variables
6. Types
7. Type Assertions
8. Arrow Functions
9. Interfaces
10. Classes
11. Objects

Angular Fundamentals

1. Introduction
2. Building Blocks of Angular Apps
3. Components
4. Generating Components Using Angular CLI
5. Templates
6. Directives
7. Services
8. Dependency Injection
9. Generating Services Using Angular CLI

Displaying Data and Handling Events

1. Introduction
2. Property Binding
3. Attribute Binding
4. Adding Bootstrap
5. Class Binding
6. Style Binding
7. Event Binding
8. Event Filtering
9. Template Variables
10. Two-way Binding
11. Pipes
12. Custom Pipes

Directives

1. Introduction
2. ngIf
3. Hidden Property
4. ngSwitchCase
5. ngFor
6. ngFor and Change Detection
7. ngFor and Trackby
8. The Leading Asterisk
9. ngClass
10. ngStyle
11. Creating Custom Directives

Template-driven Forms

1. Introduction
2. Building a Bootstrap Form
3. Types of Forms

4. ngModel
5. Adding Validation
6. Specific Validation Errors
7. Styling Invalid Input Fields
8. ngForm

Reactive Forms

1. Introduction
2. Building a Bootstrap Form
3. Creating Controls Programmatically
4. Adding Validation
5. Specific Validation Errors
6. Implementing Custom Validation
7. Validating the Form Input Upon Submit
8. FormBuilder

Consuming HTTP Services

1. Introduction
2. JSONPlaceHolder
3. Getting Data
4. Creating Data
5. Updating Data
6. Deleting Data
7. OnInit Interface
8. Separation of Concerns
9. Extracting a Service
10. Handling Errors

Routing and Navigation

1. Introduction
2. Routing in a Nutshell
3. Configuring Routes
4. RouterOutlet
5. RouterLink
6. RouterLinkActive
7. Getting the Route Parameters
8. Why Route Parameters Are Observables
9. Routes with Multiple Parameters
10. Programmatic Navigation

Authentication and Authorization

1. Introduction
2. Application Overview
3. Architecture
4. JSON Web Tokens
5. Starter Code
6. Implementing Login
7. Implementing Logout
8. Showing or Hiding Elements
9. Showing or Hiding Elements based on the User's Role
10. Getting the Current User
11. CanActivate Interface
12. Redirecting Users After Logging In
13. Protecting Routes Based on the User's Role
14. Accessing Protected API Resources

Deployment

1. Introduction
2. Preparing for Deployment
3. JIT vs AOT Compilation
4. Angular Compiler in Action
5. Building Applications with Angular CLI

Animations

1. Introduction
2. Examples of Animations
3. Different Ways to Create Animations
4. Angular Animations
5. Implementing a Fade-in Animation
6. Implementing a Fade-out Animation

Unit Testing

1. Introduction
2. What is Automated Testing?
3. Types of Tests
4. Unit Testing Fundamentals

Angular Latest Features

1. Virtual scrolling
2. Drag and Drop
3. Progressive web app

Node.js

1. what is nodejs?
2. nodejs architecture

Asynchronous Node.js

1. Async Basics
2. Call Stack & Event Loop
3. Callback Functions & APIs

Web Servers and Application Deployment

1. Express JS
2. Creating a Web Server
3. Express Middleware
4. Deploying Your Apps

Creating REST API using Express JS

1. What is REST API?
2. Creating REST API for CRUD operations?
   Creating a Record
   List all Records
   Getting Individual Records
   Delete a Record
   Updating a Record
3. Testing the REST API with postman software.

Security and Authentication for Web Applications

1. Setting Up The UserModel
2. JWTs and Hashing
3. Generating Auth Tokens and Setting Headers
4. Private Routes and Auth Middleware
5. Hashing Passwords
6. Logging In
7. Logging Out

Web Apps with Socket.io

1. Creating a New Project
2. Adding Socket.io to an App
3. Emitting and Listening to Events
4. Broadcasting Events

MongoDB

Introduction to MongoDB

1. What is NoSQL?
2. Why NoSQL?
3. Overview of MongoDB
4. Introduction to JSON and BSON documents
5. Installing MongoDB and Robomongo

Connecting to Mongo and Data handling

1. Inserting data
2. Fetching Data
3. Deleting Data
4. Updating Data

Indexing and Aggregation Framework

1. What is Index?
2. Index Creation and usage
3. what is Aggregation?
4. Types of Aggregation

Integrating with Node JS and Express JS
Integrating with Java .net and python

Project Ecommerce application development
Discussing Project Architecture

1. Understanding Application layers
2. Discussing Application Entities&Properties
3. Discussing Relationship among Application Entities

Developing Application Architecture

1. Designing Application Architecture
2. Developing REST API
3. Developing User Login and Signup Page

Security

1. Implementing Token based Authentication
2. Managing User session
3. Implementing Authorization

Route Protection

1. Protecting a Route from Unauthorized Access
2. Need of Route Protection

Developing Category, Product Operations

1. Developing Category CRUD Operations
2. Developing Product CRUD Operations

Product Listing

1. Displaying Products to Users
2. Applying Paging and Sorting

Cart

1. Creating Cart
2. Adding Products to Cart

Orders

1. Create order
2. Update order
3. Manage orders