

- **1. Basics**
- What is Angular
- Installation of node server
- Why node server is required
- installation of angular/cli
- why do we require angular/cli
- installation of vs code
- why do we require vs code
- developing hello world app
- walking through different files of hello world development
- installation of bootstrap
- what is the need of bootstrap
- installation of json server
- what is the need of json server
- describing json file.
- defining json file with the master data
- accessing json file from the browser
- **2. Component**
- what is a component?
- Developing a simple component.
- component selector
- component template
- component style
- component programming
- what are the different ways of developing component?
- what is nesting a component (parent-child)
- developing nesting component
- sending input from parent to child
- getting response from child to parent
- Component Lifecycle
- 
- **3. Module**
- What is a module
- What is a default module
- How to create a module
- Different built in modules
- How can we use one module in another module
- **4. Typescript basics**
- data types
- variables
- methods
- methods return types, arguments and optional arguments
- constants
- enums

- **5. Binding**
- What is Databinding
- String Interpolation
- What is Property Binding
- Difference between Property Binding and String Interpolation
- Two Way binding
- style binding
- class binding
- event binding
- template variable

- 
- **6. Directives**
- What is Directives
- What is ngIf and else condition
- ngClass
- ngStyle
- ngSwitchCase
- ngFor
- safe traversal operator
- custom directive

### **7. TypeScript Advanced**

- developing multiple classes in the same file (or) across the files
- object creation
- constructor
- access specifiers
- arguments constructor
- optional argument to the constructor
- making constructor arguments as an attributes (Fields)
- dependency injection
- developing a service and registering
- injecting a service to the component.
- injecting service into services
- using service in the cross component
- Hierarchical Injector

### **8. Template Driven Form**

- Form with bootstrap
- ngModel directive
- adding HTML5 validations
- ngForm
- ngModelGroup
- form with radio, dropdown and checkbox

### **9. Reactive Forms**

- Form with bootstrap
- ngModel directive
- adding HTML5 validations
- ngForm
- ngModelGroup
- form with radio, dropdown and checkbox

### **10. Http module**

- interacting with json server to read json file
- create a record in json file
- read a record from json file
- read all records from json file
- update a record
- delete a record
- developing a separate service for Http methods
- Error Handling

### **11. Routing and Navigation.**

- Define Routes
- RouterOutlet
- RouterLink
- RouterParameters

### **12. Project development**

#### **Online Movie Ticket booking system**

##### **Admin module**

1. Managing Movie Theaters
2. Managing Movies

##### **User module**

1. Signup
2. Login
3. Change Password / Forgotten Password
4. Booking
5. Cancelation
6. Reviewing