Introd	Introduction to TypeScript and ES6				
	Introduction to TypeScript				
	Typescript datatypes				
	Arrow functions and functions in typescript				
	Defining class and interface				
	Defining a module				
	Importing a module				
	Generics				
Introd	duction to Angular				
	What is Angular				
	Why Angular				
	What is Transpiling and its importance				
	Bundling tools and what they do				
	Installing and using Angular 4				
	About Angular CLI				
	Creating Application using Angular CLI				
	Application Structure and				
Confi	guration files <b>Hands-on:</b> Creating first				
angula	ar app and test running it.				
Comp	ponents				
	What is a component?				
	Component decorator				
	Component architecture				
	Component state & behaviour				
	Component template				
_ _ lr	Styling a component nterpolation and the expression context				
• 11	וובוףטומנוטוו מווע נווב בגףובסטוטוו נטוונפגנ				

# Templates Inline vs External Template Expressions Data Bindings □ Built-in Structural Directives □ Built-in Attribute Directive Hands-on: Creating a component and exploring interpolation, structural and attribute directives ☐ Component Communication and Hierarchy Component hierarchy Child Components ☐ Calling one component in another ☐ Input and Output ☐ Parent Child component communication ☐ Component life cycle hooks **Hands-on:** A Simple application to explore component life cycle and parent child component communication. Planning and starting single page application to be built throughout the course. **Dependency Injection and Services** Introduction to Services Building a Service □ Introduction to Dependency Injection □ Injectors & Providers Registering Providers Injecting a service to a component □ Application wide dependency injection

Hands-on: Adding required services to the Single page applicati

Http and Observables

on built as part of course

	The HTTP providers			
	Injecting the providers			
	Making a GET call			
	Handling error			
	More about Observables			
	Making a POST request			
	Working with headers			
Hands-on: Write services to consume rest-api by using angular HTTP  Session				
7: Pipes				
	Built-in Pipes Custom Pipes			
Custom Directives				
	Building attribute directives Building structural directives			

Hands-on: building pipes and custom directives for the single page application

## Routing

- o Why use routing?
- o Defining a route table
- Route configuration
- Router outlets
- Navigation using hyperlink
- o Navigation using code
- Supplying parameters to a route URL

Hands-on: establishing route for your single page application

## **Form Handling**

- o Template driven vs. model driven form handling
- Inbuilt form validation
- Custom form validation

**Hands-on:** creating forms and validating and adding them to single page application

#### Internationalization

- □ Pre-compiled and runtime
- □ Using ng2-Translate

#### **Security**

- Security threats
- Best practices
- o Prevent cross site scripting
- Sanitization
- Auditing your application

Hands-on: Localizing your applications and applying security principles

## **Testing your application**

What is client side unit testing
The Jasmine framework
Installation & configuration
A simple jasmine test case
Testing components, services
Running test cases

Hands-on: Writing unit test cases for your application and deploying your application