



Webliquid Infotech

# AngularJS

## TRAINING

[www.webliquidinfotech.com](http://www.webliquidinfotech.com)



# Agenda



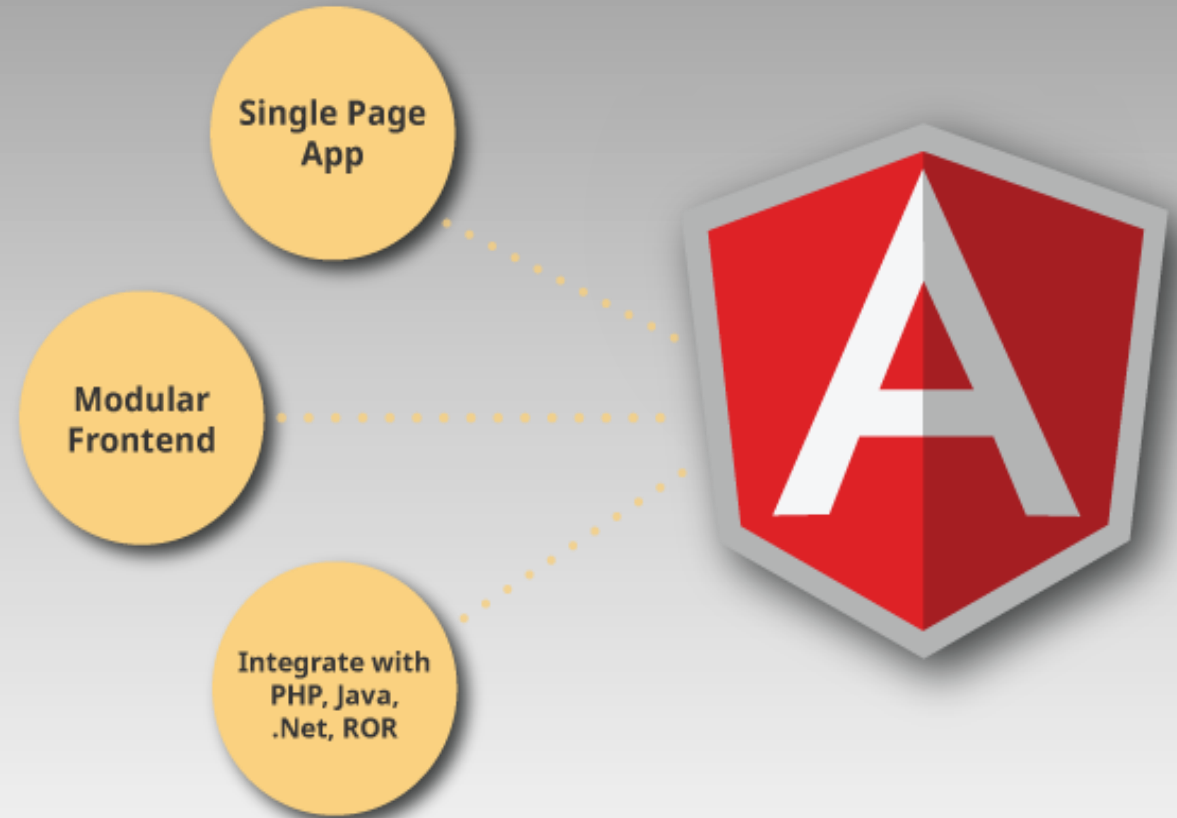
- What is AngularJS?
- Why AngularJS?
- About AngularJS framework
- Features of Angular
- What will you learn in AngularJS
- Certification
- About us
- Why Choose us

# What is AngularJS?



AngularJS is a full featured JavaScript framework, with the core goal of **simplification**. It excels at building dynamic, single page web apps (SPAs) and supports the Model View Controller (MVC) programming structure.

Angular's data binding and dependency injection eliminate much of the code you currently have to write. And it all happens within the browser, making it an ideal partner with any server technology.



# Why AngularJS?



- Open-source, front-end JavaScript framework developed by Google
- A library of JavaScript code based on standard JS and HTML, with minimal modifications (meaning, it's less likely to break)
- Handles the heavy lifting of DOM manipulation and AJAX glue that once had to be coded from scratch
- Encourages the developer to use modular building blocks of JavaScript code that can be categorized and are easy to test
- Can be added to any HTML page with a <script> tag

	jQuery	Angular
DOM Manipulation	✓	✓
RESTful API	✗	✓
Animation Support	✓	✓
Deep Linking Routing	✗	✓
Form Validation	✗	✓
2 Way Data Binding	✗	✓
AJAX/JSONP	✓	✓



# Angular Framework



# Features of Angular



- It builds powerful applications—like Gmail, for example—with ease.
- AngularJS is part of the MEAN Stack. MEAN can do everything the LAMP (Linux, Apache, MySQL, and PHP) stack does, just with the same language that, chances are, is already being used on your site's front end.
- Modularity and code organization make it great for dividing up large-scale work with a team. Modularity also makes testing and debugging a breeze.
- Uses the shortest possible code
- Functionality-first thinking vs. structure-first thinking make this framework more focused on features, which in turn makes developers' jobs easier.
- Pairs with AJAX for amazing speed
- Also clicks well with a Ruby on Rails back end, and can be integrated into a Rails workflow because they share the same ideology and code structure can flow well from the front end to the back end
- It's great for top-down development as a development philosophy (vs. bottom-up, which can be more frustrating for your developer).
- Can handle heavy user interaction via forms. Its validation side is excellent, and its admin area is great, too.
- Excellent tools and support from the Google community
- AngularJS also works well with the ASP.NET framework and C# language on the back end of a site.

# Contents for **AngularJS**

# What will you Learn:

## Module 1: Introduction to Angular

- ❖ What is Angular?
- ❖ Features of AngularJS and Angular
- ❖ AngularJS (vs) Angular
- ❖ Steps to Setup for local development environment
- ❖ Executing First Angular program using NodeJS and NPM
- ❖ Executing First Angular program using Visual Studio.



## Module 2: Angular Architecture

- Introduction
- Basic Building Blocks of Angular Applications
- Angular Modules and @Ng
- Module decorator
- Angular Libraries
- Component, Templates and Metadata
- Data Binding
- Directives Services and Dependency Injection

## Module 3: Displaying Data using Templates

- ❖ About Directives
- ❖ Components Properties and Interpolation
- ❖ Built-In Directive
  - ngIf
  - ngFor
  - ngSwitch
- ❖ Creating a class for data (Model object)Template Expressions
- ❖ Working with Arrays \* vs <template> External HTML Template File

## Module 4: Data Binding

- ❖ Binding properties and Interpolation



# Continued:

- ❖ One-way Binding / Property Binding
- ❖ Event Binding
- ❖ Two-way Binding
- ❖ Two-way binding with NgModel
- ❖ Attribute Binding
- ❖ Style and Class Binding

## Module 5: Styles Binding

- ❖ Style and Class Bindings
- ❖ Built-In Directives - NgStyle & NgClassUsing Component Styles
- ❖ Special selectors
- ❖ Loading Styles into Components

## Module 6: Advanced Component Features

- ❖ Revising what are Components?
- ❖ Components Life Cycle Hooks.
- ❖ Dynamic components using ngComponentOutlet.

## Module 7: Template Driven Forms

- ❖ Introduction
- ❖ Create the component that controls the form
- ❖ Create a template with the initial form layout
- ❖ Bind data properties to each form input control with the ngModel two-way data binding syntax
- ❖ Add the name attribute to each form input control
- ❖ Add custom CSS to provide visual feedback
- ❖ Show and hide validation error messages
- ❖ Handle form submission with ngSubmit
- ❖ Disable the form's submit button until the form is valid
- ❖ Resetting the form.



# Continued:

## Module 8: Reactive Forms

- ❖ Reactive Forms Introduction
- ❖ More Form Controls
- ❖ Form Control Properties setValue and patchValue Validating Form Elements
- ❖ Submitting and Resetting forms
- ❖ Observing and Reacting to Form Changes
- ❖ Using FormBuilder

## Module 9: Pipes

- ❖ Built-in Pipes
- ❖ Using parameters and chaining Pipes
- ❖ Custom Pipes Parameterized Custom Pipe
- ❖ Pipes and Change Detection Pure and Impure pipes

## Module 10: Custom Directives

- ❖ Custom Attribute Directive
- ❖ Using Host Listener
- ❖ Using Host Binding
- ❖ Custom Validator Directive

## Module 11: Dependency Injection

- ❖ Understanding Dependency Injection
- ❖ Understanding DI in Angular Framework ReflectiveInjector
- ❖ Exploring Provider
- ❖ Types of Tokens
- ❖ Types of Dependencies
- ❖ Configuring DI using Providers
- ❖ Implementing DI in Angular
- ❖ Optional Dependencies



# Continued:

## Module 12: Services In Angular

- ❖ Building and Injecting Custom Services
- ❖ Service using another Service
- ❖ Built-In \$http Service
- ❖ Promises and Observables
- ❖ Get Request

## Module 13: Angular Routing

- ❖ Introduction
- ❖ Configuring and Navigating
- ❖ Parameterized routes
- ❖ Nested (or) Child Routes

## Module 14: Angular Modules

- ❖ AppModule as Root Module
- ❖ Feature modules
- ❖ Lazy Loading a Module
- ❖ Shared Module

## Module 15: Performing CRUD Operations as in Realtime Angular Application.

- ❖ Create and ASP.NET MVC Web API Application
- ❖ Add Angular Seed, download files and Configure Project
- ❖ Setup Project for Entity Framework Code First Model
- ❖ Add Web API Controller to perform CRUD Operations using EF.
- ❖ Create Angular Feature and Routing Modules
- ❖ Configure Angular to use HTTP and Json Services.
- ❖ Program Angular Modules to performing CRUD Operations.







# Our Smashing Students

“1569+ Professionals, 142+ Batches, 4.95 Ratings”

# ABOUT US



## Who we are:

WebliquidInfotech is a QMS ISO (9001:2015), Google, Microsoft Certified Advanced Web Educational Training Organisation. WebliquidInfotech was established in 2013 and We have Successfully trained 1569+ Professionals and 2270+ Students from then.

We are not just a Training organisation, But Also a Company where we work on Live Projects that helps Our Trainers to give Practical Training to the Students.

With this We also have a Consultancy that provides 100% Placement assistance to our trainees.







“**Our Aim** is to Provide High Quality education and to Train as much Students as we can.”

# WHY CHOOSE US?



- ✓ Get the right career exposure.
- ✓ To Enhance your technical skills with Practical learning.
- ✓ Get advanced technical & 100% practical knowledge along with hands-on training.
- ✓ Learn from highly experienced and professional experts.
- ✓ Flexible Timings with Weekdays & Weekend Batches are available.
- ✓ Free first demo Class before Joining.
- ✓ Doubt resolution sessions available.
- ✓ Get 10+ (Internationally valid) Industry recognized certifications.
- ✓ Stay Updated with latest digital marketing strategies.
- ✓ Get theoretical and practical classes.
- ✓ Learn how a professional company works.
- ✓ Improve your business communication skills.
- ✓ In house 100% placement opportunities for outstanding trainees.
- ✓ Job interview preparations.







# THANK YOU

---

## WEBLIQUIDINFOTECH

---



### Contact Us:

SCO 114-115 2<sup>nd</sup> Floor Sector 34 A  
Chandigarh, 160034

M: +91-7347405486 | +91-7347405419  
+91-9501293387 | +91-7508920783

O: +91-172-4023733

Web: [www.webliquidinfotech.com](http://www.webliquidinfotech.com)

Email: [info@webliquidinfotech.com](mailto:info@webliquidinfotech.com)