ANGULARJS

A JAVASCRIPT FRAMEWORK
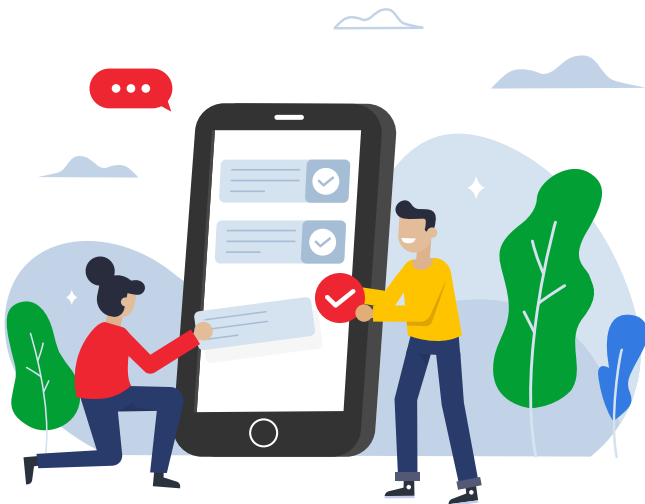
AngularJS Framework

Angular JS is a Typescript Open-Source Web Application Framework led by the Angular Team at Google. Angular JS is a structural framework for dynamic web apps. It lets you see HTML as your template language and lets you extend HTML's syntax to express your application's components clearly.

The use of the POJO(Plain Old JavaScript) Objects in the AngularJS framework makes it self-sufficient and easy to use for the front end development services.
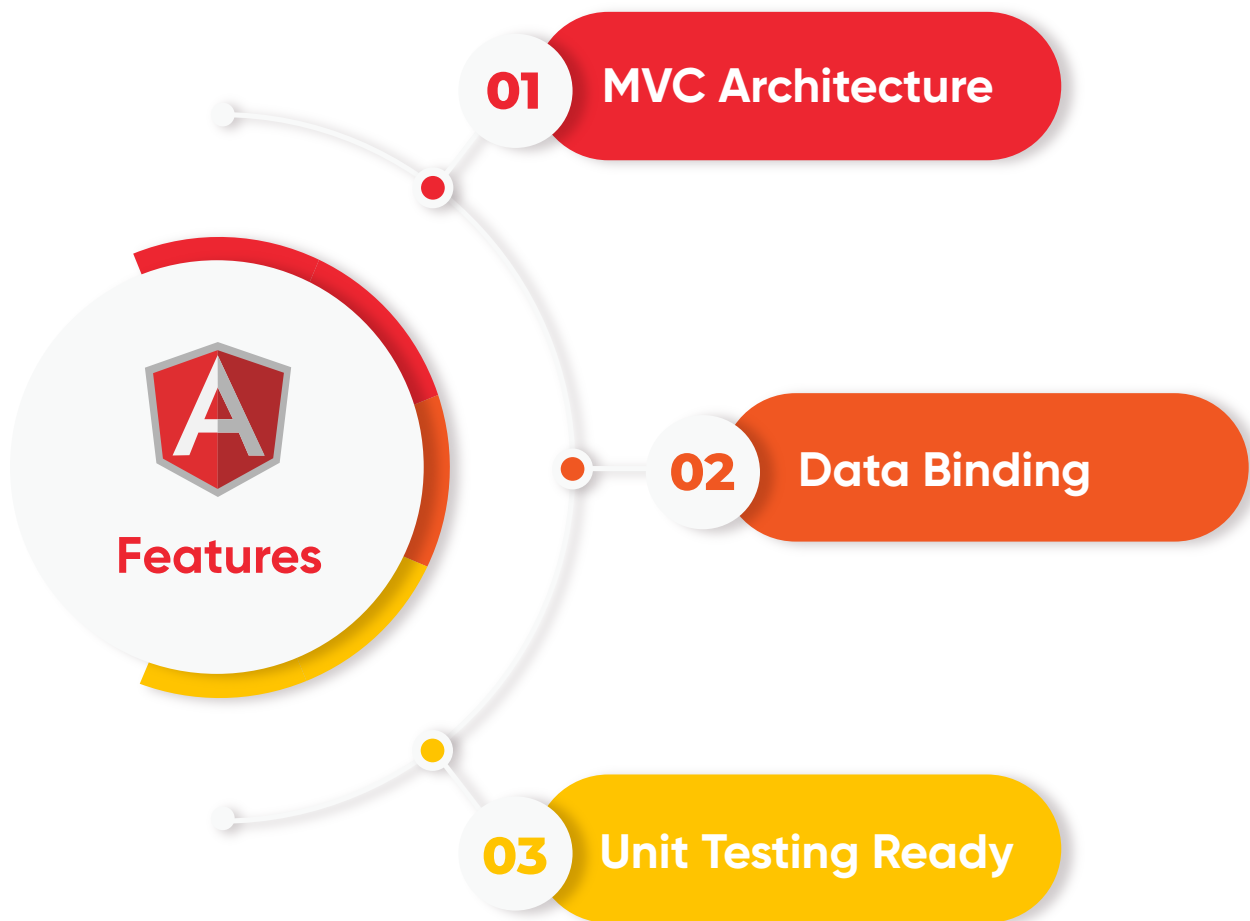
AngularJS's data binding and dependency injection eliminate much of the code you would otherwise have to write. And it all happens within the browser making it an ideal partner with server technology. It is probably the most popular modern day web frameworks available today. This framework is used for developing mostly the Single Page.

Because of the sheer support from the wide community of Google, AngularJs framework is always up-to-date with the latest features. Moreover, the AngularJS framework also incorporates the latest development trends in the market.
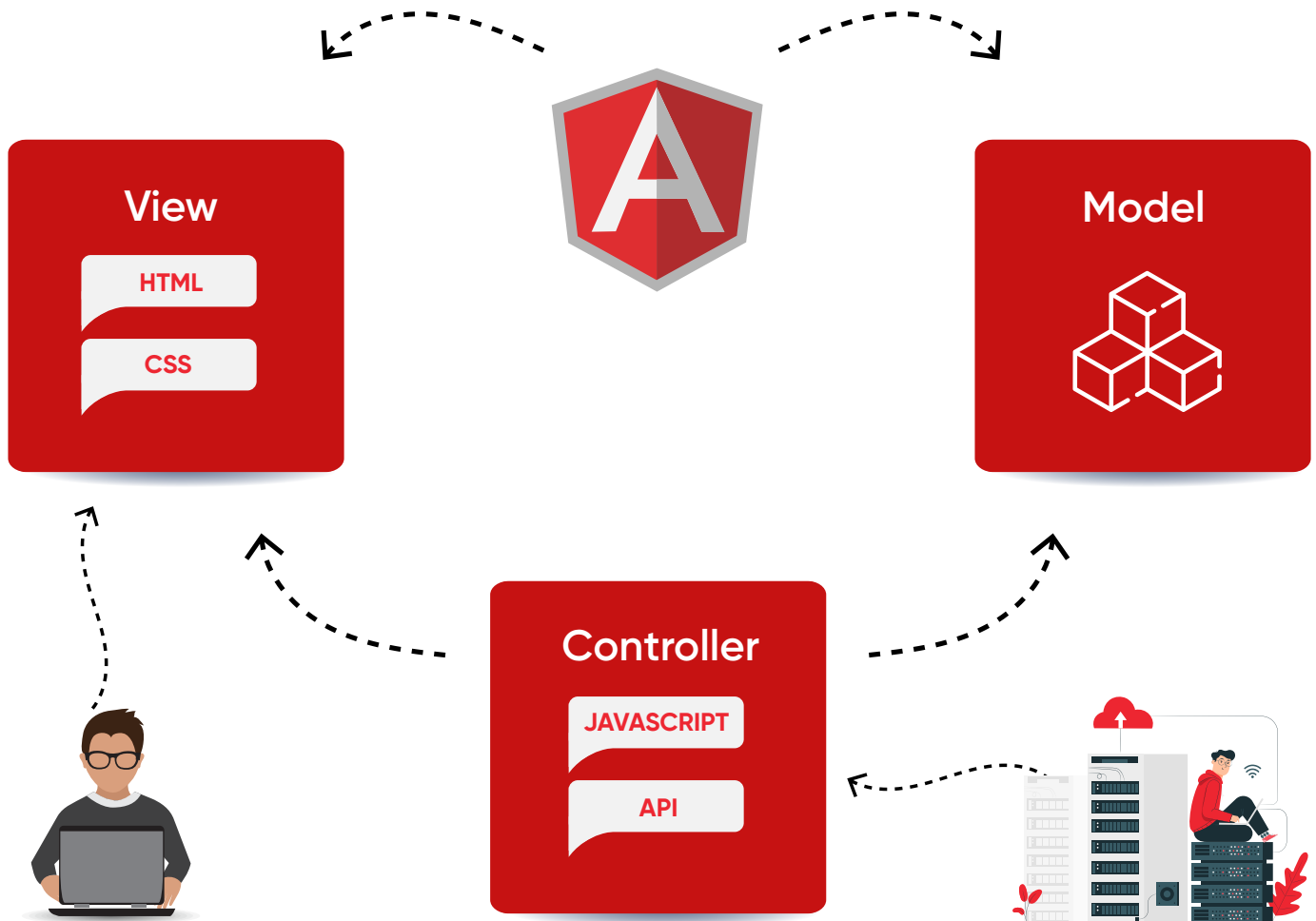
Angular Framework

01 MVC Architecture

Features

02 Data Binding

03 Unit Testing Ready

AngularJS Framework possesses amazing features ranging from MVC architecture, data binding, unit testing ready, etc. MVC based architecture in the AngularJS framework makes it easier to build client-server applications. The two-way data binding allows the automatic synchronization between the view and the model.
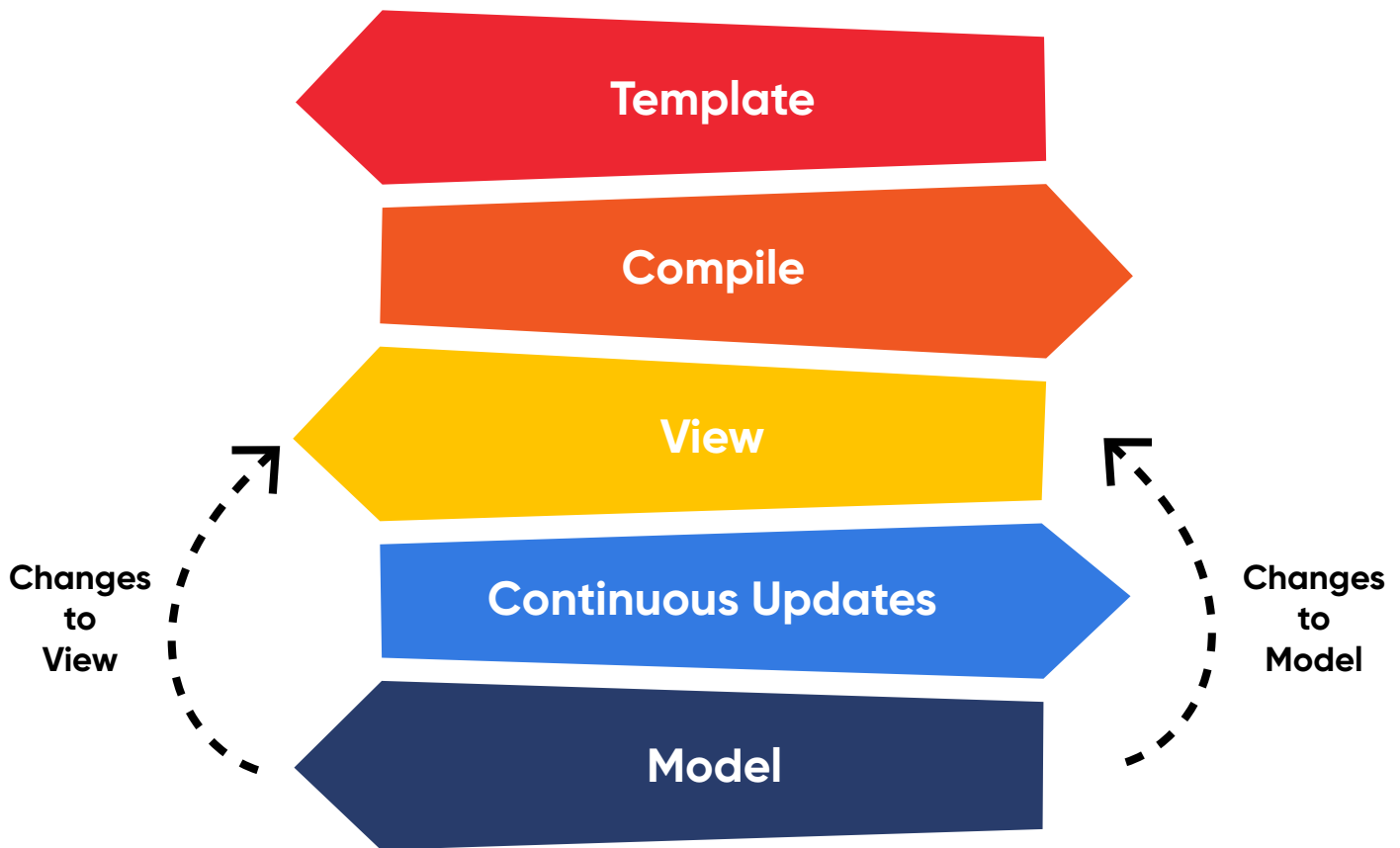
Moreover, in the AngularJS framework, the user interface is built on HTML which is well-organized, smooth, and structured. Sometimes, JavaScript interfaces are difficult to develop and organize, but the implementation with HTML makes it easier and flawless.

AngularJS MVC Architecture

View

HTML

CSS

Model

Controller

JAVASCRIPT

API

Angular JS Framework based on the concept of MVC (Model-View-Controller). All the modern design pattern used in web applications are MVC based. This pattern involves the separation of all three layers - business logic layer, datalayer, and the presentation layer. This separation in all three layers provides the modularity. The presence of the MVC architecture in the Angularjs framework not only boosts the development process but also allows several developers to work on the Angularjs project at the same time.
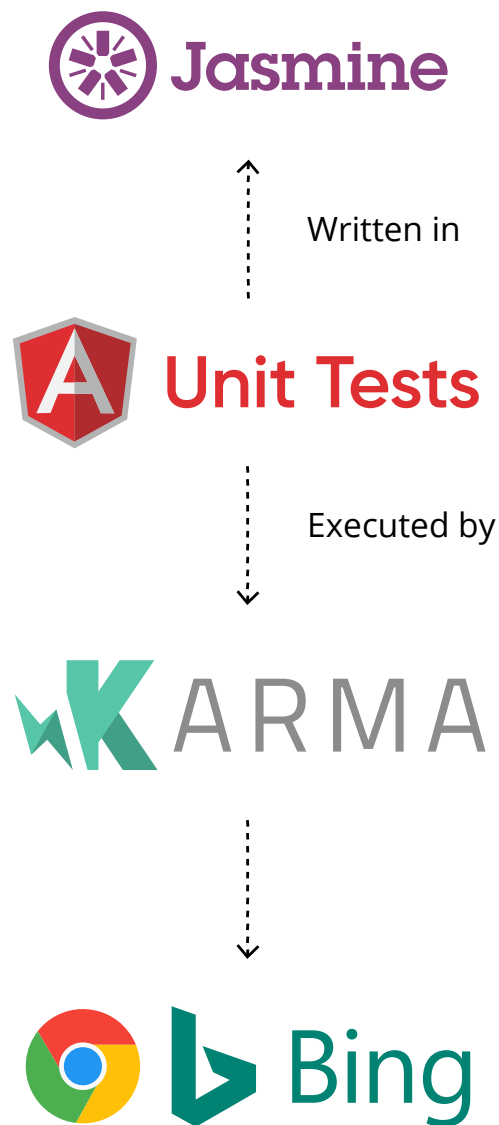
AngularJS Data Binding

Template

Compile

View

Continuous Updates

Model

Changes to View

Changes to Model

Angular JS Framework supports two-way data binding that allows the automatic synchronization of data between model and components. The way Angular JS implements the data binding lets you to treat the model as a singlesource of truth in your Angular application. In actual, the viewlayers is the exact project of model layer; whatever changes you make in the model layer,it will automatically update in view layer, and vice-versa.

These changes take place immediately and automatically to ensure the updating of the model and view layers all the time. You can achieve the two-way data binding in AngularJS using the ng-model directive. The use of ng-models helps to automatically change the input in all the layers.
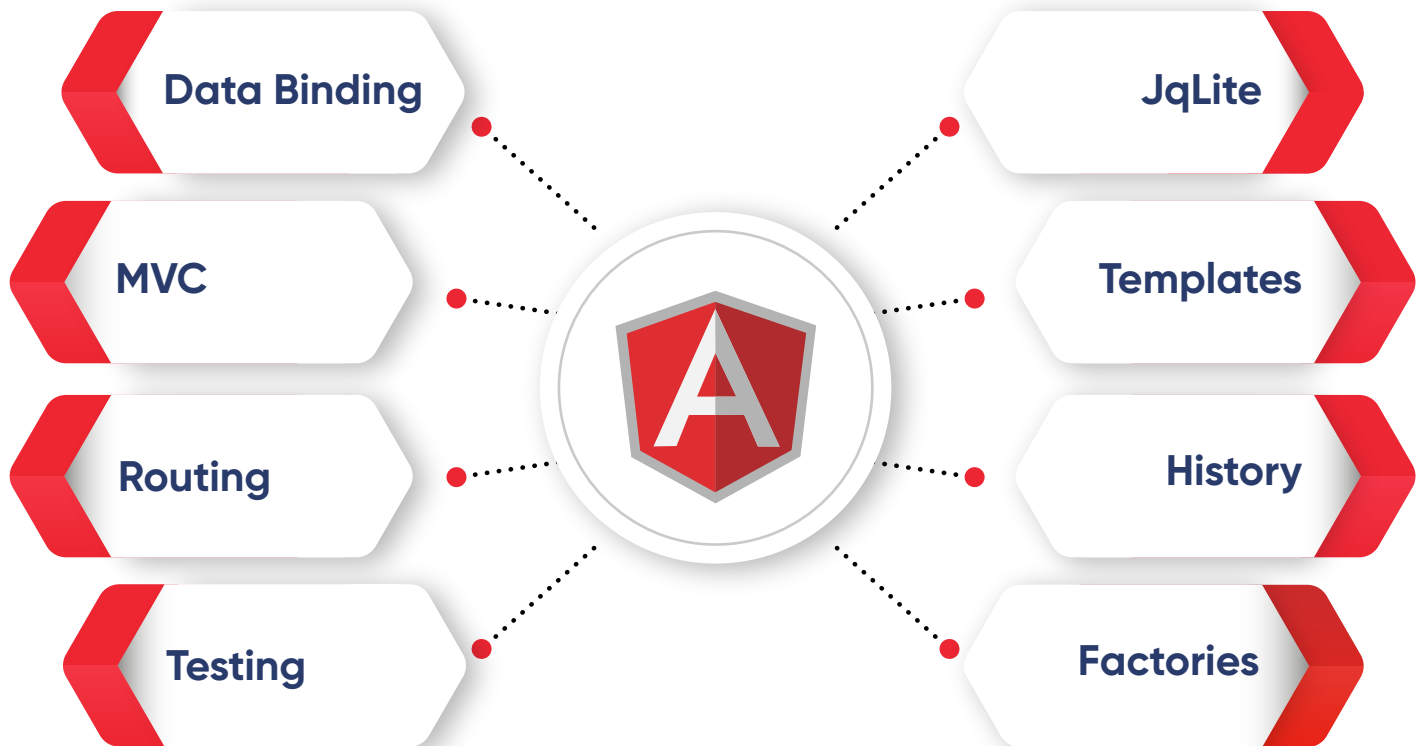
AngularJS Unit Testing Ready

Jasmine

↑ Written in

Unit Tests

↓ Executed by

KARMA

↓

Bing

Angular JS Framework considered as the unit testing ready. The developers at Google not only developed the Angular JS but also developed a testingframework called "Karma" which helps in designing unit tests for Angular applications.

AngularJS Unit Testing is designed specially by keeping testability in mind. As the name suggests, AngularJS is to test in isolation. AngularJS testing is performed using the testing services and testing controllers.

AngularJS is a Fully-Featured SPA Frameworks

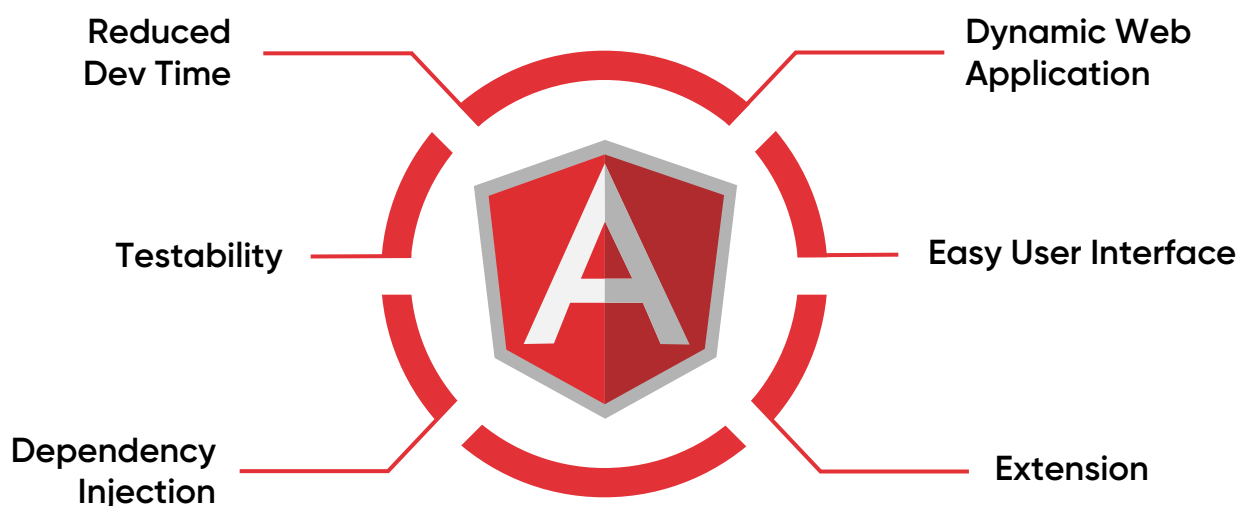|	
Data Binding	**JqLite**
MVC	**Templates**
Routing	**History**
Testing	**Factories**

AngularJS framework is considered a fully-featured framework for single-page applications as it offers features like MVC based architecture, two-way data binding, routing, testing, templates, factories, controllers, dependency injections, etc.

The MVC pattern in the AngularJS framework provides abundant flexibility that makes it the right framework for single-page application development. Moreover, AngularJS Frameworks provides amazing performance, cross-platform compatibility, better productivity, and many more.

Why **AngularJs** is better?

Angular JS is a compact framework that allows the convenient development of JavaScript applications. The code of Angular Script is bug prone. It is better than other languages for JavaScript like jQuery where it is difficult to debug.

With the help of AngularJS, it is easier to debug for multiple AJAX requests between servers, setting time limits, changing pages, animation, and many more aspects of development. It provides a good way to build contemporary ' single page' applications (SPA) enabling foreseeing needs.

Reduced Dev Time

Dynamic Web Application

Testability

Easy User Interface

Dependency Injection

Extension

AngularJS is a client-side technology that provides a powerful way of achieving really effective things in a way that embraces and extends HTML, CSS, and JavaScript.

AngularJS is considered to be most popular framework.

Popular Brands that use AngularJS Framework

Google

amazon

Udemy

PayPal

theguardian

Upwork

NETFLIX

freelancer

The Weather Channel
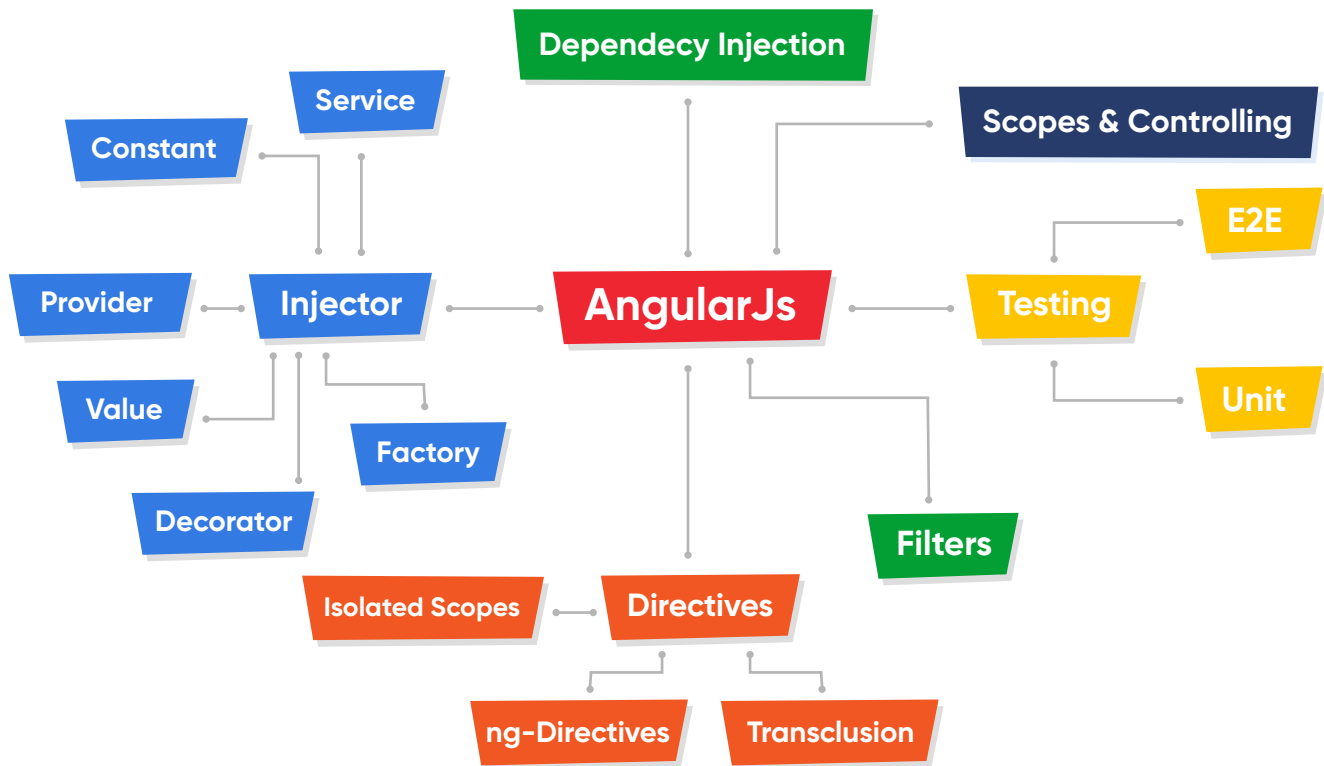
LEGO

iStock.
by Getty Images

Office

lyft

Delivery Hero

AngularJs Components

Angular JS Framework provides several components including Dependency Injection, Scrolling & Controlling,Testing, Directives, and Injectors.

The dependency injection component in Angularjs deals with the design patterns how it deals with the component's dependencies. The controller and scrolling in Angularjs maintain the data and behavior using the $scope objects. The controllers are attached to the DOM in different ways.

Directives are used to attach specific behavior to the DOM elements by transforming the DOM elements and their children. In short, directives in Angularjs extends the HTML. Most of the directives start with the term ng-, where ng stands for Angular. Injectors ensure the prevention of reuse of the service references used by every controller.

Top Reasons Why AngularJS?

MVC Pattern

Declarative User Interface

Unit Testing Ready

POJO Data Model

Top Reasons

DOM Manipulations

Directives

Filters Flexibility

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