

# ANGULARJS

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**Abstract—** AngularJS is an open source and completely free JavaScript MVC Framework. It is maintained by Google. By using AngularJS we can create SPA (Single Page Application) Projects. Angular's data binding eliminate much of the code you currently have to write. In this paper we report the result of survey about AngularJS and its performance issues of an application. We report common problem of developer to create web pages that is use of third-party, custom Components, inadequate architecture decisions and the technical and specific causes of performance problems that are unnecessary processing included in the digest cycle, which is the internal computation that automatically updates the view with changes detected in the mode.

## I. INTRODUCTION

AngularJS is an open source and completely free JavaScript MVC Framework Created by Misko Hevery and Adam Abrons Licensed under Apache and maintained by Google. AngularJS is not a library, it is a JavaScript Framework that embraces extending HTML into a more expressive and readable format. By using AngularJS we can create your web page which will be much faster. As a name says it is AngularJS means something's related to JavaScript. By using this technology we can create client side web application of any web using java script means that will give overall feature of JavaScript means your pages will not refresh in any operation that we will perform that simply means your website is going to be efficient enough to give you a faster output. Angular is built and maintained by dedicated by highly talented Google engineers. This means you not only have a large open community to learn from it , but you also have skilled, highly-available engineers tasked to help you get your Angular questions answered.

This is not Google's first attempt at a JavaScript framework; they first developed their comprehensive Web Toolkit, which compiles Java down to JavaScript, and was used by the

Google Wave team extensively. With the rise of HTML5, CSS3, and JavaScript, as both a front-end and back-end language, Google realized that the web was not meant to be written purely in Java.

## II. FEATURE OF ANGULARJS

AngularJS is the most powerful JavaScript based development framework. There are following feature of AngularJS.

- Used to create RIA (Rich Internet Application).
- It is help to write application using MVC architecture.
- Application in AngularJS is cross-browser compliant.
- Automatically handles JavaScript code as per browser.
- AngularJS is used by thousand of developer around the world for creating web page for much faster.

AngularJS is a framework to built large scale and high performance web application while keeping them as easy to maintain.

There is many more core feature in AngularJS.

- Data-binding
- Scope
- Controller
- Services
- Filters
- Directives
- Templates
- Routing
- MVC,MVVM
- Deep Linking
- Dependency Injection

### III. MVC

AngularJS incorporates the basic principles behind the original MVC software design pattern into how it builds client-side web applications. The MVC or Model-View-Controller pattern means a lot of different things to different people. AngularJS does not implement MVC in the traditional sense, but rather something closer to MVVM (Model View View Model).

### IV. THE MODEL

The model is simply the data in the application. The model is just plain old JavaScript objects. There is no need to inherit from framework classes, wrap it in proxy objects, or use special getter/setter methods to access it. The fact that we are dealing with vanilla JavaScript is a really nice feature, which cuts down on the application boilerplate.

### V. THE VIEW MODEL

A view model is an object that provides specific data and methods to maintain specific views.

The view model is the scope object that lives within the AngularJS application. Scope is just a

simple JavaScript object with a small API designed to detect and broadcast changes to its state.

### VI. THE CONTROLLER

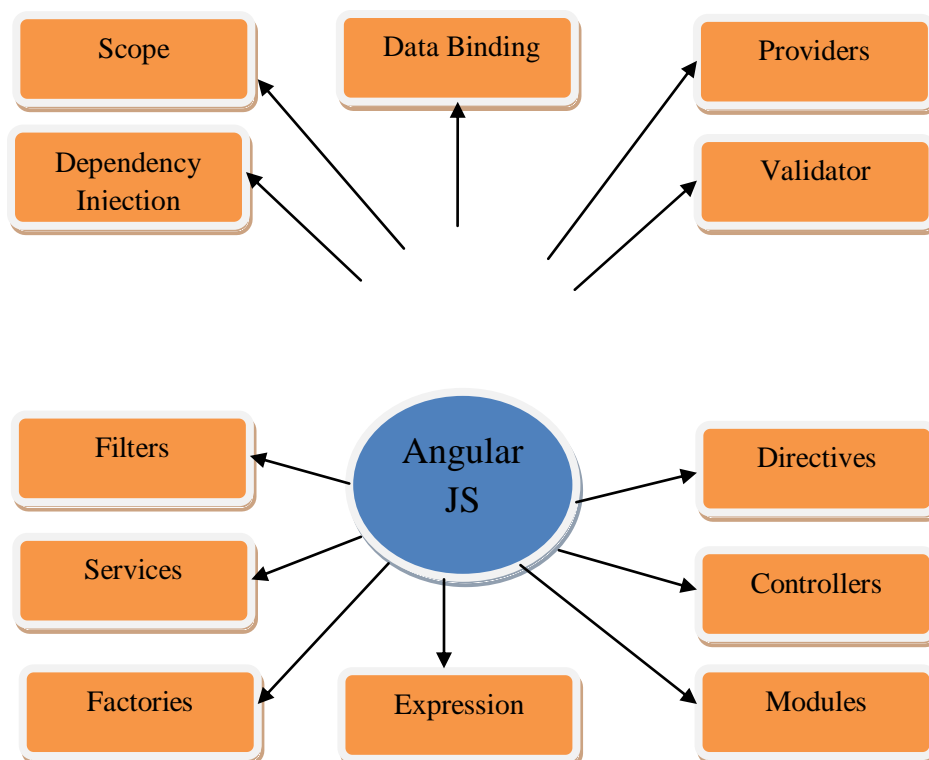
The controller is responsible for setting initial state and augmenting scope with methods to control behavior. It is worth noting that the controller does not store state and does not interact with remote services.

### VII. THE VIEW

The view is the HTML that exists after AngularJS has parsed and compiled the HTML to include rendered markup and bindings. This division creates a solid foundation to architect your application. The scope has a reference to the data, the controller defines behavior, and the view handles the layout and handing off interaction to the controller to respond accordingly

### VIII. CONCEPT

Some important Concept of AngularJS understands by the following diagram.



## IX. CONCLUSION

Angular's innovative approach for extending HTML will make a lot of sense for people who are developers in soul. With a large community and Google behind it, it is here to stay and grow, and it works well both for quick prototyping projects and large scale production applications.

## REFERENCES:

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