

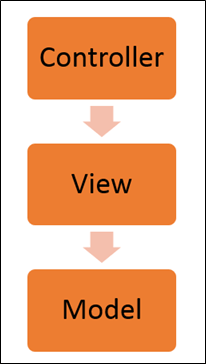
AngularJS is a Javascript framework used for building MVC based applications.

**MVC** – The framework is built on the famous concept of MVC (Model-View-Controller). This is a design pattern used in all modern day web applications. This pattern is based on splitting the business logic layer, the data layer, and presentation layer into separate sections. The division into different sections is done so that each one could be managed more easily.

**Data Model Binding** – You don't need to write special code to bind data to the HTML controls. This can be done by Angular by just adding a few snippets of code

**AngularJS Architecture**

Angular.js follows the MVC architecture, the diagram of the MVC framework as shown below.

[](https://www.guru99.com/images/AngularJS/010416_0549_AngularJSIn1.png)Angularjs Architecture Diagram

* The Controller represents the layer that has the business logic. User events trigger the functions which are stored inside your controller. The user events are part of the controller.
* Views are used to represent the presentation layer which is provided to the end users
* Models are used to represent your data. The data in your model can be as simple as just having primitive declarations. For example, if you are maintaining a student application, your data model could just have a student id and a name. Or it can also be complex by having a structured data model. If you are maintaining a car ownership application, you can have structures to define the vehicle itself in terms of its engine capacity, seating capacity, etc.

**AngularJS Advantages**

* Since it's an open source framework, you can expect the number of errors or issues to be minimal.

Two-way binding

Routing: Angular can take care of routing which means moving from one view to another. This is the key fundamental of single page applications; wherein you can move to different functionalities in your web application based on user interaction but still stay on the same page.

Advantage of AngularJS

There are a lot of JavaScript frameworks for building web applications. So, it is a genuine question, why to use Angular JS.

**Following are the advantages of AngularJS over other JavaScript frameworks:**

**Two way data binding:** Data-binding in AngularJS apps is the automatic synchronization of data between the model and view components. The way that AngularJS implements data-binding

**Testing:** Angular JS is designed in a way that we can test right from the start. So, it is very easy to test any of its components through unit testing and end-to-end testing.

* **Model View Controller:** In Angular JS, it is very easy to develop application in a clean MVC way. You just have to split your application code into MVC components i.e. Model, View and the Controller.
* Directives, filters, modules, routes etc.



The MVC pattern is made up of the following three parts:

1. **Model:** It is responsible for managing application data. It responds to the requests from view and to the instructions from controller to update itself.
2. **View:** It is responsible for displaying all data or only a portion of data to the users. It also specifies the data in a particular format triggered by the controller's decision to present the data. They are script-based template systems such as JSP, ASP, PHP and very easy to integrate with AJAX technology.
3. **Controller:** It is responsible to control the relation between models and views. It responds to user input and performs interactions on the data model objects. The controller receives input, validates it, and then performs business operations that modify the state of the data model.
4. Directives
5. Expressions
6. $scope object
7. Controllers
8. Model
9. Module
10. Filters
11. Data binding

