

140IR5160 - AngularJS

UNIT 1 – Session 2

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Course Code/Title: 140IR5160 - Angular JS

➤ Objective of the Course:

To make students understand web application architecture and its components and enable them to develop web pages and provide services based on requirements

➤ Prerequisites:

Basic knowledge in web programming

➤ Learning Outcomes:

Students will be able to:

- Describe different methods for developing web pages: manually, scripted.
- Discuss the different components that are required for developing web based applications.

➤ References:

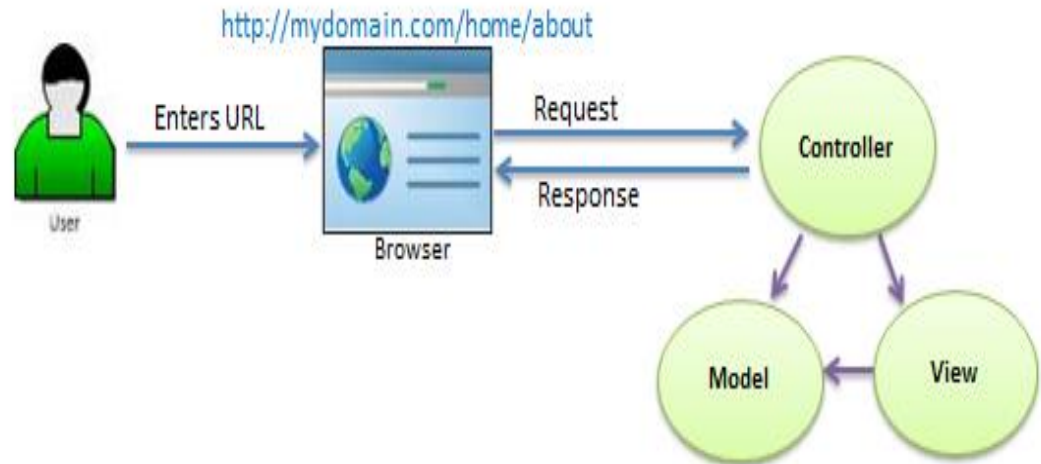
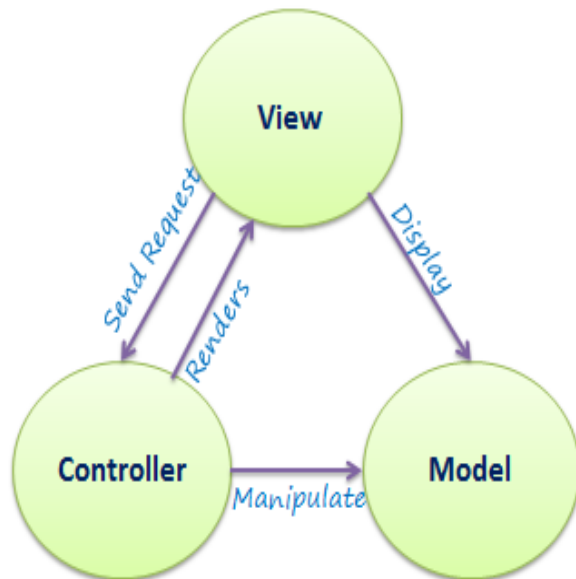
- Matt Frisbie “AngularJS Web Application Development Cookbook” Third Edition, Packt Publishing Ltd 2014.

➤ Web References:

- <https://www.w3schools.com/angular/>

AngularJS MVC Architecture

- MVC consists of
 - **Model** - responsible for maintaining application data and business logic.
 - **View** - The HTML page seen in the browser
 - **Controller** - handles user's requests and renders appropriate View with Model data.



What is MVC?

- **Model:** Model represents shape of the data and business logic. It maintains the data of the application. Model objects retrieve and store model state in a database.

Model is a data and business logic.

- **View:** View is a user interface. View display data using model to the user and also enables them to modify the data.

View is a User Interface.

- **Controller:** Controller handles the user request. Typically, user interact with View, which in-tern raises appropriate URL request, this request will be handled by a controller. The controller renders the appropriate view with the model data as a response.

Controller is a request handler.

Parts of AngularJS

➤ HTML Templates with Directives

- Directives - new HTML syntax for elements, Attributes, styles and comments

➤ Application Logic in Javascript

- Controllers - event processing and model updates
- Dependency Injection of Javascript modules

➤ Data Binding - Two way

- View to Model
- Model to View

Hello Angular

➤ Demo

Hello Angular Code

```
<html>
  <head>
    <meta charset="utf-8">
    <title>Hello Angular</title>
  </head>
  <div ng-app="">
    <p>Enter something in the input box:</p>
    <p>Name : <input type="text" ng-model="who" placeholder="Enter name here"></p>
    <h1>Hello {{ who }}</h1>
  </div>
  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angular.min.js">
  </script>
</html>
```

Hello Angular Part

➤ Insert the AngularJS script file

```
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angular.min.js">
```

➤ Directives

- ng-app : To indicate the Angular app
- ng-model : Specify a model (data) with a name (who)

➤ Template

- {{ who }} : handle-bar style replace the model(data) here

➤ No controller or application logic here

➤ Angular manages the 2 way data binding

- From textbox to model variable “who”
- And from variable to the template in the view

Thank you