

140IR5160 - AngularJS

UNIT 1 – Session 1

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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:

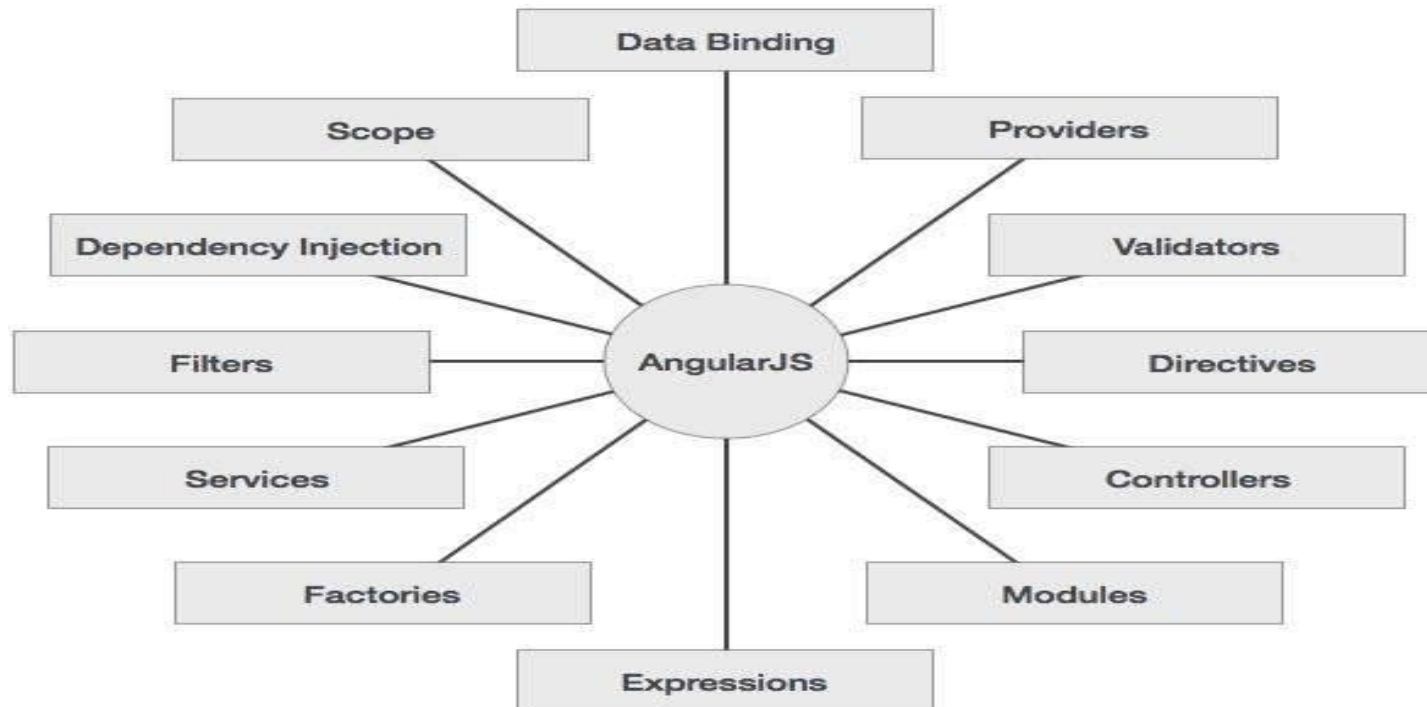
- <https://www.w3schools.com/angular/>

What is AngularJS

- Open source Javascript framework licensed by Google to build web applications. It can be freely used, changed and shared by anyone.
- Pure client side framework for dynamic Web Apps.
- Angular JS extends HTML attributes with Directives, and binds data to HTML with Expressions.
- No browser refreshing entire page
- Tracks user action, browser events and Model (data) changes and updates the view - MVC

Features

- AngularJS provides developers options to write client side application (using JavaScript) in a clean MVC(Model View Controller) way.
- Application written in AngularJS is cross-browser compliant. AngularJS automatically handles JavaScript code suitable for each browser.



Pros and Cons

- **Advantages:**

- Create Single Page Application in a very clean and maintainable way.
- AngularJS provides data binding capability to HTML thus giving user a rich and responsive experience
- AngularJS code is unit testable.
- AngularJS provides reusable components.
- With AngularJS, developer write less code and get more functionality.
- In AngularJS, views are pure html pages, and controllers written in JavaScript to do the business processing.

Pros and Cons

- **Disadvantages:**

- **Not Secure** – Being JavaScript is a only framework, application written in AngularJS are not safe. Server side authentication and authorization is must to keep an application secure.
- **Not degradable** – In your application, user disables JavaScript then user will just see the basic page and nothing more.

AngularJS - Environment Setup

- Open the link <https://angularjs.org/> and you will see there are two options to download AngularJS library.
- Option 1: Try the New Angular
- Option 2: Download AngularJS
- By clicking on Option 2 button, a screen you get to see a dialog box shown as.

AngularJS - Environment Setup

Download AngularJS

Branch

1.8.x (latest)

1.2.x (legacy)

?

Build

Minified

Uncompressed

Zip

?

CDN

https://ajax.googleapis.com/ajax/libs/angularjs/1.8.0/angular.min.js

?

Bower

bower install angular#1.8.0

?

npm

npm install angular@1.8.0

Extras

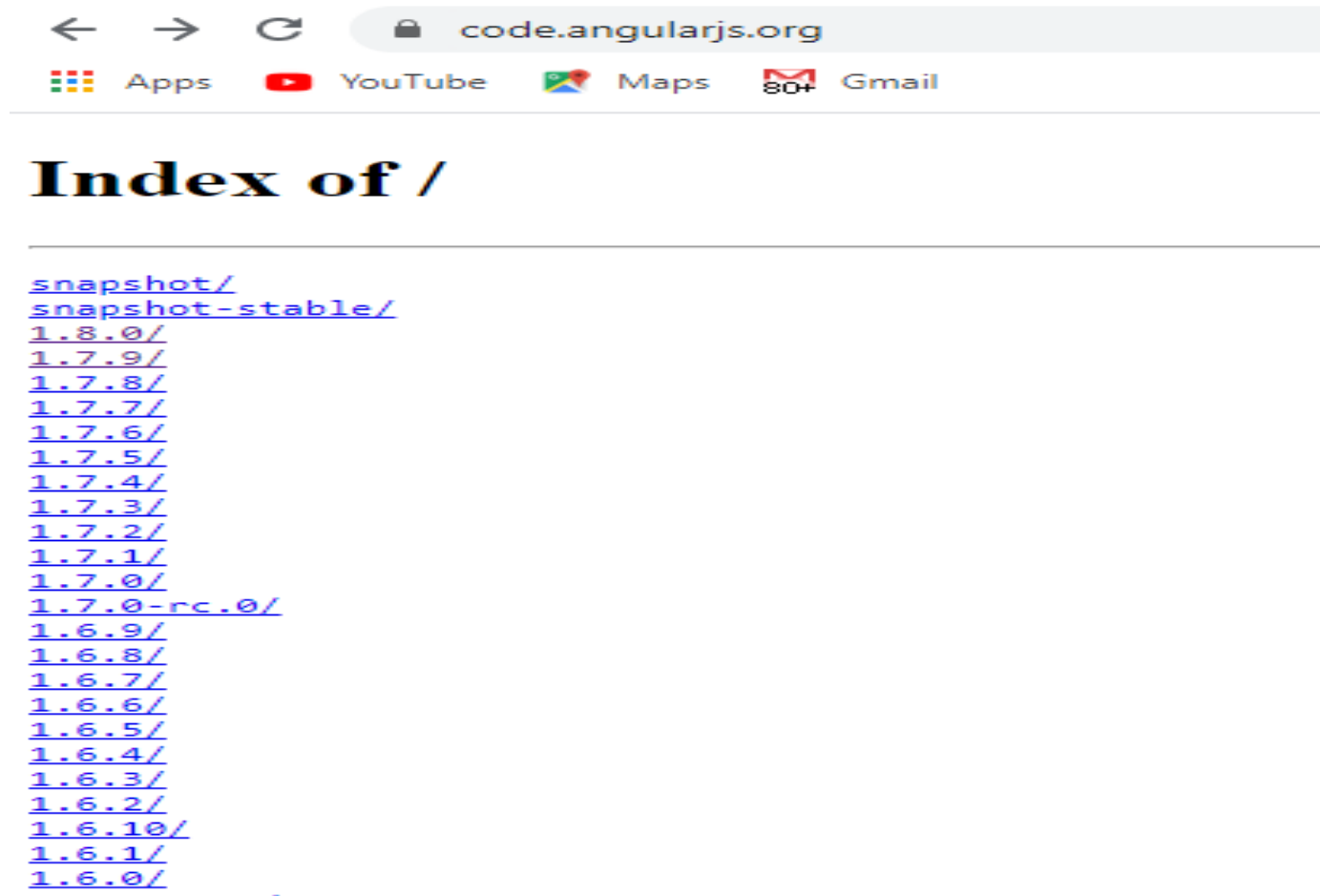
[Browse additional modules](#)

Previous Versions

 Download

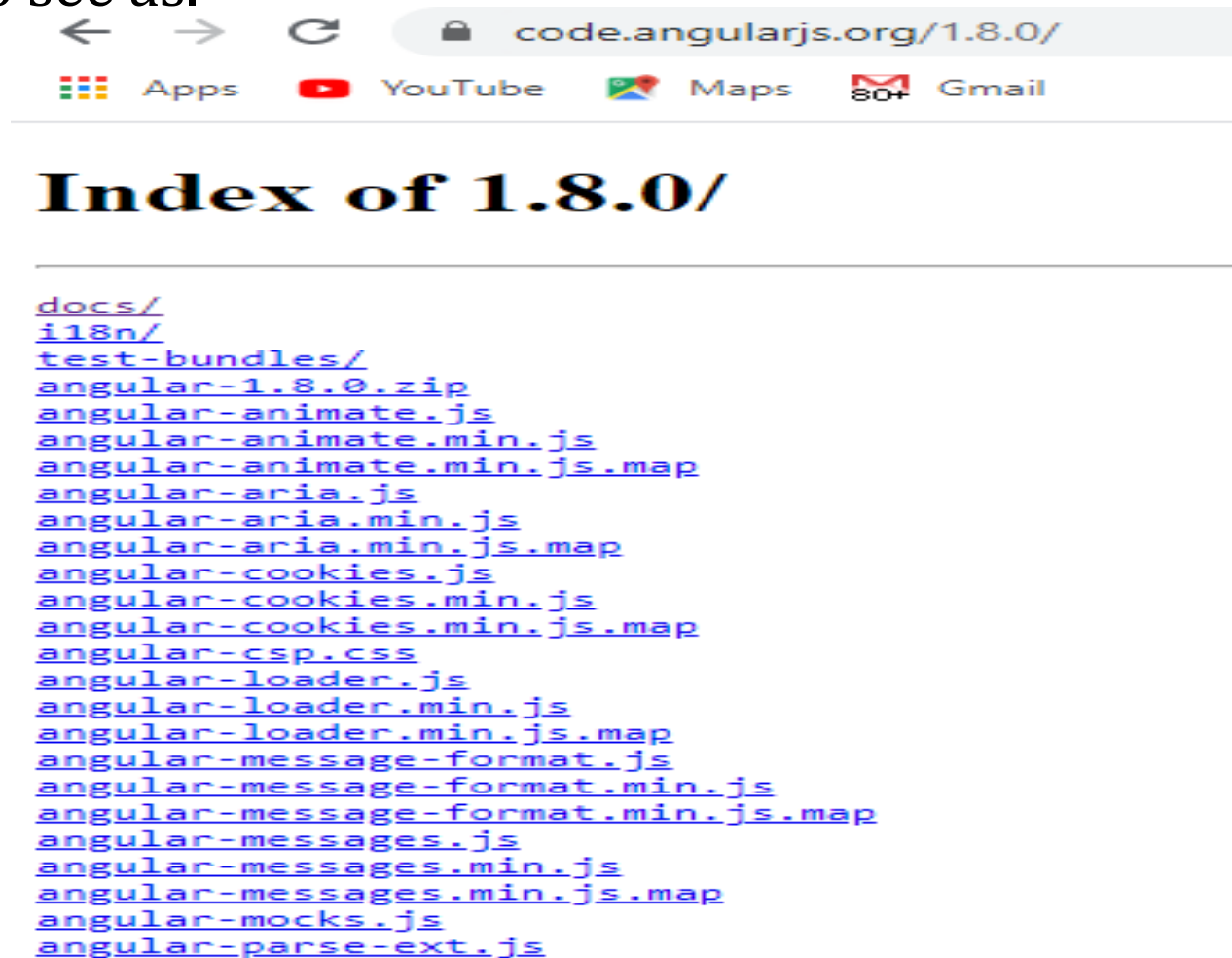
AngularJS - Environment Setup

- Next by clicking on previous version button, a screen you get to see as.



AngularJS - Environment Setup

- Next by clicking on Index of 1.8.0/ Link, a screen you get to see as.



AngularJS - Environment Setup

- Next by clicking on angular-1.8.0.zip file to download.
- Once download completed unzip angular-1.8.0 file and move the unzip file to newly create folder name as AngularJS.
- Followed by you can add the script inside the html tag.

```
<html>
```

```
<script
```

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

```
</html>
```

Thank you