

# Network Programming

## Lecture 3: MEAN Installation

Mahmoud El-Gayyar

[elgayyar@ci.suez.edu.eg](mailto:elgayyar@ci.suez.edu.eg)

[Elgayyar.weebly.com](http://Elgayyar.weebly.com)



# Install Node.js

- Go to website and get Windows 64bit installer
- Ensure node.js installation from command line

```
C:\> Node --version
```



# Install Brackets

- Go to website and get Windows 64/32 bit installer
- Install the following extensions:
  - ◆ Extensions Rating
  - ◆ File Tree Exclude: exclude unnecessary files that slow down brackets



# Install MongoDB

- Go to website and get
  - ◆ Windows 2008 R2 64 with SSL version (Install)
- *Add the bin folder to the Environment Variables*
  - ◆ Program files/mongodb/server/3.2/bin
- Run the server



```
C: \>mongod
```

- ◆ Get an error, create the folder (c:/data/db) to solve

```
C: \>mongo
```

# Install MongoDB Compass

- GUI Navigator for MongoDB databases

# Install GIT

- Get Git installer and install it
- Add the bin folder to the Environment variables
- Check that git has been installed

```
C:\>git
```



# Install Yeoman

- Not part of MEAN Stack !!
- Template Generator for different types of applications including angular
- Make the developer life easier
- Install through npm (Node Package Manager)

```
C:\>npm install -g yo
```



**global**



**YEOMAN**

# Install Generators

- Go to Yeoman website and browse generators!
- Select the *gulp-angular* generator

```
C:\>npm install -g yo gulp bower
```



Install dependencies

```
C:\>npm install -g generator-gulp-angular
```



Install generator



# Generate an App - 1

- Create a Dev folder with two subfolders, front-end and back-end
- Navigate to the front-end folder and execute the command

```
C:\..\front-end> yo gulp-angular my-message-front
```

- ◆ First press N for No
- ◆ No JQuery (for simplicity)
- ◆ Use default \$http from angular
- ◆ UIRouter (allow to navigate between multiple views)
- ◆ UI Framework → Angular UI Bootstrap
- ◆ CSS Processor (SaaS→Node.js)
- ◆ JavaScript version ES6 (Babel)

# Generate an App - 2

```
C:\..\front-end> yo gulp-angular my-message-front
```

- ◆ HTML → Default HTML
- ◆ Initialize everything using gulp command

```
C:\..\front-end> gulp serve
```

- *Create a git repo.*
  - ◆ Install git plugin for brackets (Brackets git)
  - ◆ Init
  - ◆ More actions → change user name and email
  - ◆ Select all → commit (root)

# Setup an App Design

- App → assets → images
- Index.modules.js → Main App Definition (line 12)
- Index.html → views loaded dynamically (head ng-app)
- Index.route.js
  - ◆ Home → state