CS 4220 - NODE.JS & ANGULAR.JS

INTERMEDIATE ANGULAR

AGENDA

- Midterm Discussion
- Review Assignment
- Review
- Filters
- Directives
- Multiple Views & Routing

MIDTERM

March 26, 2017

REVIEW ASSIGNMENT

- How to traverse the path that was specified
 - ▶ Include *node-dir*

```
const dir = require('node-dir')
```

Use .readFiles() function

```
dir.readFiles( searchLocation, fileCallback, finishedCallback)
```

Create a structure to hold all hashes and filenames

```
let fileSignatures = {}
```

REVIEW ASSIGNMENT

fileCallback

```
(error, content, filename, next) => {
  const hash = crypto.createHash('sha256');
  hash.update(content);
  const signature = hash.digest('hex')

  if (fileSignatures[ signature ])
     fileSignatures[signature].push(filename)
  else
     fileSignatures[signature] = [ filename ]

  next()
}
```

Be sure to include the crypto module in your code.

```
const crypto = require('crypto')
```

REVIEW ASSIGNMENT

finishedCallback

```
(error, files) => {
   if (error) throw error

   // files contains an array of strings representing every file read
   // We don't need this parameter for this assignment, but it's good
   // to know it exists.

   // Output the raw fileSignatures object
   console.log(fileSignatures)
})
```

ANGULAR

FILTERS

- Filters format the value of an expression for display to the user.
- They can be used in:
 - View Templates
 - Controllers
 - Services

FILTERS

Currency Example

```
{{ 299 | currency}}
```



\$299.00

- Filter in the Controller Example
- Filter in the View Example
- Custom Filter Example

DIRECTIVES

- Directives are markers on a DOM element
 - These markers can be an attribute, element name, comment or CSS class
- Directives tell AngularJS's HTML compiler to attach a specified behavior to that DOM element
 - Directives can even be used to transform the DOM element and its children.
- Angular comes with a set of built-in directives
 - Ex. ngModel, ngClass

DIRECTIVES

- When creating your own directives
 - They are restricted to attribute and elements only, by default.
- When should I use an attribute versus an element?
 - Use an element when you are creating a component that is in control of the template.
 - Use an attribute when you are decorating an existing element with new functionality.

DIRECTIVES

- ▶ Isolated Scope
 - ▶ The isolated scope of the directive isolates everything except models that you've explicitly added to the scope.
 - ▶ This is helpful when building reusable components because it prevents a component from changing your model state except for the models that you explicitly pass in.
 - Normally, a scope prototypically inherits from its parent. An isolated scope does not.
- Best Practice
 - Use the scope option to create isolate scopes when making components that you want to reuse throughout your app.

MULTIPLE VIEWS & ROUTING

- Let's make a Single Page Application (SPA) that showcases our filters and directives examples.
- This application will consist of a main view, followed by two other views:
 - Filters View
 - Directives View