CST 366 - Internet Programming

Spring 2020 - Week 4.2

AJAX & JSON

#### Due Date

- Lab 4 due on Sunday 2/23 @ 11:59 PM PST
- Assignment 3 due on Sunday 03/08 @ 11:59PM PST

- JSON, or JavaScript Object Notation, is a minimal, readable format for structuring data.
- It is used primarily to transmit data between a server and web application

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- The two primary parts that make up JSON are *keys* and *values*. Together they make a *key/value pair*.
  - Key: A key is always a string enclosed in quotation marks.
  - Value: A value can be a string, number, boolean expression, array, or object

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- Value: A value can be a string, number, boolean expression, array, or object
- Types of Values
  - Array : An associative array of values.
  - Boolean: True or false.
  - Number: An integer.
  - Object: An associative array of key/value pairs.
  - String: Several plain text characters which usually form a word

Some JSON examples

```
"foo" : {
    "bar" : "Hello",
    "baz" : [ "quuz", "norf" ]
}
```

```
"foo" : {
   "bar" : "Hello"
}
```

#### View JSON Data

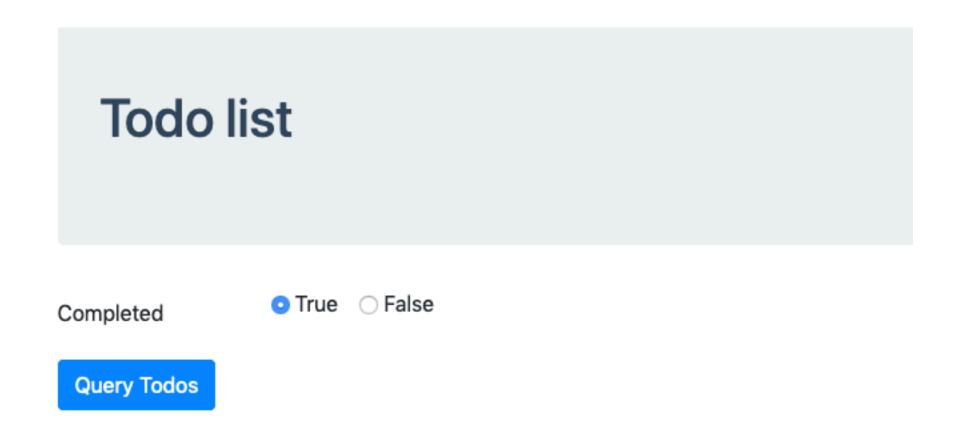
- The JSON data returned to every page and block can be viewed and accessed via a URL or template formatter.
- Let's try this: <a href="http://base-template.squarespace.com/blog/?format=json-pretty">http://base-template.squarespace.com/blog/?format=json-pretty</a>

## AJAX & JSON

Demo 6\_AJAX\_2

# Your Turn

 Build a web-interface to query a list todos from https://jsonplaceholder.typicode.com/todos



## Your Turn

- Build a web-interface to query a list todos from https://jsonplaceholder.typicode.com/todos
  - Depend on the user choice, display the corresponding queried results
  - You can use the demo files as a starter code

# Todo list Completed True False Completed Todos: true et porro tempora gue odinjeni gripp grupp ut a h guis ut nam facilis et officia qui

et porro tempora
quo adipisci enim quam ut ab
illo est ratione doloremque quia maiores aut
vero rerum temporibus dolor
ipsa repellendus fugit nisi
repellendus sunt dolores architecto voluptatum
ab voluptatum amet voluptas
accusamus eos facilis sint et aut voluptatem
quo laboriosam deleniti aut qui
molestiae ipsa aut voluptatibus pariatur dolor nihil
ullam nobis libero sapiente ad optio sint
distinctio vitae autem nihil ut molestias quo
voluptas quo tenetur perspiciatis explicabo natus
aliquam aut quasi
veritatis pariatur delectus

quis ut nam facilis et officia qui fugiat veniam minus laboriosam mollitia et enim quasi adipisci quia provident illum qui ullam ratione quibusdam voluptatem quia omnis illo expedita consequatur quia in molestiae perspiciatis ipsa et doloremque nulla dolorum est conseguatur ea mollitia in culpa suscipit repellat esse quibusdam voluptatem incidunt et itaque necessitatibus maxime molestiae qui quas velit adipisci non ad dicta qui amet quaerat doloribus ea nesciunt totam sit blanditiis sit laborum aut in quam repudiandae totam in est sint facere fuga earum doloribus ea doloremque quis sint sit aut vero porro aut necessitatibus eaque distinctio sunt cum tempora