

# ANGULAR 2 FUNDAMENTALS

December 13, 2017

# PART 3

# DATA BINDING

#### DATA BINDING

- ➤ So far what we have done are only static content
- ➤ Communication between your typescript code & template (html)
- Fetch data from a server, do some calculation then display
- ➤ To output data:
  - String interpolation {{ data }}
  - ➤ Property binding [property] = "data"
- ➤ React to (User) Events
  - Event binding (event) = "expression"
  - ➤ Two way data binding [(ngModel)] = "data"

### STRING INTERPOLATION

```
import { Component, OnInit } from '@angular/core';

decomponent({
    selector: 'app-servers',
    templateUrl: './servers.component.html',
    styleUrls: ['./servers.component.css']
})
export class ServersComponent implements OnInit {
    name: string = "James";
    constructor() { }
    ngOnInit() {
    }
}
```

#### PROPERTY BINDING

```
name: string = "James";
serverId = 10;
allowNewServer = false;

constructor() {
    setTimeout(() => {
        this.allowNewServer = true;
      } ,2000)
}

ngOnInit() {
}
```

#### **EVENT BINDING**

### **EVENT BINDING**

```
import { Component, OnInit } from '@angular/core';
import { setTimeout } from 'timers';
@Component({
 selector: 'app-servers',
 templateUrl: './servers.component.html',
 styleUrls: ['./servers.component.css']
})
export class ServersComponent implements OnInit {
 name: string = "James";
 serverId = 10;
 allowNewServer = false;
 serverCreationStatus = "No server was created!";
 constructor() {
   setTimeout(() => {
      this.allowNewServer = true;
    } ,2000)
 ngOnInit() {
 onCreateServer() {
    this.serverCreationStatus = "Server was created!";
```

#### PASSING AND USING DATA WITH EVENT BINDING

```
@Component({
  selector: 'app-servers',
 templateUrl: './servers.component.html',
 styleUrls: ['./servers.component.css']
export class ServersComponent implements OnInit {
 name: string = "James";
 serverId = 10;
  allowNewServer = false;
  serverCreationStatus = "No server was created!";
  serverName = '';
  constructor() {
   setTimeout(() => {
     this.allowNewServer = true;
   }, 2000)
  ngOnInit() {
  onCreateServer() {
   this.serverCreationStatus = "Server Created!";
  onUpdateServerName(event: any) {
   console.log(event);
   this.serverName = event.target.value;
```

### MORE ON PASSING

#### **EXERCISES**

- Create an angular app
- ➤ That shows string Interpolation
- ➤ That shows property binding
- ➤ That shows event binding using click
- ➤ Use bootstrap design
- ➤ Add a input field that updates a property using two way data binding using ngModel from previous example

# **DIRECTIVES**

- ➤ Instructions in the Dom
- ➤ Components are sample of this

#### NGIF TO OUTPUT DATA

Directive based on booleans or expression

#### MORE ON NGIF

```
export class ServersComponent implements UnInit {
 name: string = "James";
 serverId = 10;
 allowNewServer = false;
 serverCreationStatus = "No server was created!";
 serverName = '';
 serverCreated = false;
 constructor() {
   setTimeout(() => {
     this.allowNewServer = true;
   }, 2000)
 ngOnInit() {
 onCreateServer() {
   this.serverCreated = true;
   this.serverCreationStatus = "Server Created!";
```

# **OTHER DIRECTIVES**

- ➤ ngIf & Else
- ➤ ngStyle
- ➤ ngClass
- ➤ ngFor

# END OF PART 3