

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!";
```

NGIF ELSE

```
<h3>If Else</h3>
<div *ngIf="isValid; else isValidFalse">
    True
</div>
<ng-template #isValidFalse>
    False
/ng-template
```

NGIF ELSE

```
isValid = false;
constructor() {
  setTimeout(() => {
    this.allowNewServer = true;
  }, 2000)
ngOnInit() {
onCreateServer() {
  this.serverCreated = true;
  this.isValid = true;
  this.serverCreationStatus = "Server Created!";
```

OTHER DIRECTIVES

- ➤ ngStyle
- ➤ ngClass
- ➤ ngFor

END OF PART 3