Angular Course Notes

- 1. Configure and describe/build dev environment
 - a. express
 - b. index.html
 - c. ts-node typescript to node transpiling
 - d. zone.js async multi thread
 - e. system.js (& config) module loader
- 2. HelloWorld (rename as app.ts) 01-MVC-App
 - a. use default directory to start
 - b. tsconfig.json
 - c. Create app.ts with explanation then save into default for future use
- 3. Simple Component
 - a. Open step3 directory for instruction deles use default
 - b. create search-box directory
 - c. create search-box.component.ts
 - d. import to app.ts & add to module declarations & <search-box></search-box>
- 4. Input/Output Data
 - a. simple text property displayed in input placeholder="{{text}}"
 - b. next make it configurable from the app level @Input()
 - c. Simple Events
 - d. <input placeholder={{text}} #input>
 - e. <button class="btn-clear" (click)="clear(input)">Clear</button>
- 5. Sharing Events Across Components
 - a. Open step5 folder for starting assets
 - b. Create color-picker.ts
 - c. Add to app.ts declarations
 - d. Add [ngStyle]="{'color':color}" to colorpicker title in color-picker.ts
 - e. Add color="red" to selector in app.ts
 - f. Add (click)="choose('#0f0')" to divs in color-picker.ts
 - g. add new EventEmitter @Output in color-picker.ts
 - h. add method to **color-picker.ts to** emit the event choose(color:string){ ...
 - i. add event to app.ts (color)="onColor(\$event)"
 - j. create onColor() event handler with console.log test in app.ts
 - k. create reset button in app.ts and then create reset method in colorpicker.ts
 - I. add #picker to colorpicker in app.ts
 - m. call picker.reset() to button in app.ts
 - n. create colorpreviewer
 - o. add to template and declarations in app.ts
- 6. *ngFor Directive
 - a. Open step6 folder
 - b. Create heroes.ts component
 - c. Add to app.js
- 7. ngClass Directive
 - a. Open step7 folder for instructions Deles carry on with step6 project
 - b. Add properties to array of heroes in heroes.ts
 - c. Edit heroes.ts starting with class then ngClass
- 8. *nglf Directive
 - a. Open step8
 - b. Create demo in app.ts
- 9. Interpolation Extended Demo
 - a. Open step9 instructions deles duplicate default directory
 - b. Lead demo on interpolation techniques
- 10. Zones
 - a. Open step 10 instructions deles duplicate default directory
 - b. Demo events and how Zone handles things

c. When does the view get updated? DOM events, Alerts ,AJAX callbacks, setInterval/setTimeout callbacks etc..

11. Pipes

- a. Open step 11 instructions deles duplicate default directory
- b. Demo pipes

12. Services

- a. Open step12 instructions deles open step12
- b. explain express server routes
- c. create lessons-service.ts
- d. import classes
- 13. Modules maybe optional unit
 - a. Open step13 instructions deles duplicate step12
 - b. create lessons.module.ts
 - c. modify app.ts to import module (not providers)

14. Angular-CLI

- a. ng new my-app
- b. ng serve localhost:4200
- 15. Creating Components in angular-cli
 - a. ng generate component home
 - b. add <app-home> to app.component.html
 - c. ng g component contact

16. Routing

- a. point out <base href='/'> in top level **index.html**
- b. ng g module app-routing
- c. open app.routing.module.ts and modify
- d. open app.module.ts and add imports for new module
- e. add <router-outlet> to app.component.html
- f. test localhost:4200 to see home page working
- g. add contact route to app-routing.module.ts and browse to localhost:4200/contact
- h. add Contact to app.component.html
- i. demo Contact in top level index.html
- i. bootswatch demo
- k. [routerLinkActive]="['active']" on links in app.component.html
- I. .navbar-nav a.active in app.component.css

17. Routing Extended

- a. Open step17 instructions deles open step17
- b. <base href="/src/step17/"> in **index.html** (remember conflict with router-introduction base-href!!!)
- c. import router classes and components to app.ts
- d. add <router-outlet></router-outlet>s to app.ts
- e. create router-config.ts
- f. create <button> elements in **dashboard-header.ts** <button (click)="navigate('(section1:section1)')">Graph 1</button>
- g. create navigate() function
- h. uncomment radios and setGraph() function to demo multi outlets

18. Form Builder

- a. import reactiveFormModule into app.module.ts
- b. import form classes into contact.component.ts
- c. modify class definition in contact.component.ts