## **Environemental setup**

- install node
- install angular cli
  - o node -v
  - o npm install -g @angular/cli
  - o ng --version
- update angular cli
  - o npm uninstall -g angular-cli
  - npm cache clean/npm cache verify (if npm > 5)
  - o npm install -g @angular/cli@latest
- downgrade angular cli
  - rm -rf node\_modules
  - o npm uninstall --save-dev angular-cli
  - o npm install --save-dev @angular/cli@1.2.2
  - o npm install

## **Building Blocks Of Angular Application**

- Components
- Directives
- Services
- Routes
- Modules
- Pipes
- Guards

# **Understanding Angular Cli Sommands**

- ng new appname
  - o flags (same flags may be available in other commands too)
    - --dry-run
    - --iniline-style
    - --inline-template
    - --routing
    - --prefix
    - --style
    - --skip-tests
- ng serve
  - o flags

- --port
- --host
- --ss
- --ssl-key
- --ssl-cert
- --open
- ng lint
  - o flags
    - --fix
- ng test
- ng build
  - flags
    - --prod
    - --build-optimizer
    - --aot
    - --target
- ng g cl class-name
- ng g c component-name
  - flags
    - --spec
    - --view-encapsulation
    - --flat
    - --selector
- ng g d directive-name
- ng g e enum-name
- ng g m module-name
- ng g p pipe-name
- ng g s service-name

# **Understanding Basic Debugging**

- Console.log(), console.debug(), console.warn(), console.info(), console.error()
- console.table();
- console.time();console.timeEnd();
- console.trace();
- debug(fn);
- debugger;

- console.log('%c' + question, 'background: #222; color: #bada55');
- monitor(fn);

## **Understanding File Structure**

- Angular Cli and Webpack
- package.json
  - ~(supports patch release)
  - ^(supports minor release)
  - o refer semver for more versioning details
- Angular.json / Angular-cli.json(version <=5)
- main.ts
- Appmodule.ts
- Dependancy Injection

#### **HTML Best Practices**

- Reset.css
- Getting Most Out of Html5
  - o <article>
  - <aside>
  - o <details>
  - o <figcaption>
  - o <figure>
  - < <footer>
  - <header>
  - o <main>
  - o <nav>
  - < section>
  - o <summary>

## **Components**

- Decarators
- Constructor
- Template
- Styles
- Template Expression / bindings {{}}

#### **Structural Directives**

- \*ngFor
- \*nglf
- \*ngSwitch

## **Conditional Styling**

- [style.stylename] ----->apply single style on condition
- [ngStyle] ----->apply multiple styles on condition
- [ngClass] ----->apply multiple class on condition
- [class.classname] ----->apply single class on condition

## **Component Interaction**

- Input []
  - o <u>example</u>

- Output (event emitter) ()
  - o <u>example</u>

```
<child-comp (test)="childEvent($event)"></child-comp>
.....
@Output() test:EventEmitter<string> = new EventEmitter();
```

- Template reference (or) local variables (#refence)
- Events
  - example (built in events)
    - (focus)="myMethod()"
    - (blur)="myMethod()"
    - (submit)="myMethod()"
    - (scroll)="myMethod()"
    - (cut)="myMethod()"
    - (copy)="myMethod()"
    - (paste)="myMethod()"
    - (keydown)="myMethod()"
    - (keypress)="myMethod()"
    - (keyup)="myMethod()"
    - (mouseenter)="myMethod()"

- (mousedown)="myMethod()"
- (mouseup)="myMethod()"
- (click)="myMethod()"
- (dblclick)="myMethod()"
- (drag)="myMethod()"
- (dragover)="myMethod()"
- (drop)="myMethod()"
- Input, Output Aliasing
  - @Output('test') testChild = new EventEmitter<any>();
  - @Input('name') firstName : string;

## **Troube Shooting Component**

- Declarations
- Circular Dependency
- Safe Traversal?
- ngNonBindable -->{{ raw word }}

## **Syntax Usage**

https://angular.io/guide/cheatsheet

## **Component Style Guide**

- one component in one file
- small functions: max line 75
- File naming convention: filename.type.ts
- use for descriptive name: shopping-kart.component.ts
- Do use UpperCamelCase for class names.
- Do match the name of the symbol to the name of the file.
- selector name should be seperated with and must have an prefix(app-shopping-kart) kebab-case
- const lowerCamelCase
- Interface UpperCamelCase (avoid I prefix)
- Properties and methods lowerCamelCase
- leaving one empty line between third party imports and application imports.
- Always extract styles and templates to external files.
- Always use decorators for input and output.
- Avoid aliasing input and output

# **Deployment**

- Production Build
- Deploying in Server
- live-server
- now