

Scouting App Training

Team 294

Introduction to Angular and Web Service Programming

Part 3: Scouting App Basics

Login Component

Items for review

- Data binding (username, password)
- Event binding (click)
- Structural directives (if)
- login() webservice call

Login

Username

Password

Login

Web Service Calls

App Service

- login – HTTP Post
- loadMatches – HTTP Get

Calls are asynchronous and return an Observable that you must subscribe to

```
this.appService.login(this.userLogin)
    .subscribe((data) => {
        if (data) {
            this.errorMessage = "Login success"
        } else {
            this.errorMessage = "Login failed"
        }
    })
```

Routing

app.module.ts

- New components need to be defined here
- Define routes
- Navigate using the router (see login page)
- Bootstraps AppComponent


app.component

- Main component
- Defines the nav bar and page layout

Match List Component

Items for review

- Structural directives (for)
- Interpolation {{ m.teamId }}
- loadMatches webservice call
- sorting and comparators

OrcaTrain			
Team	Match Number	High Made	
294	1	14	
294	1	10	
294	2	9	
294	2	11	
294	3	11	
294	5	12	
294	12	14	
294	20	12	
294	30	5	
294	39	13	
294	56	6	

Enhancements

1. Enhance the Match List page to make it more complete
 - Add missing columns
 - Style using Bootstrap or custom CSS
2. Add the ability to represent the data as a graph
3. Add a Match Entry page that appears when you click on the match number

	Auto						Teleop					Endgame					
Match	Start	Cross	High	Mid	Low	Preloads	High	Mid	Low	Rot	Pos	Hang Type	Balance	Carry	Died	Driver	Penalties
Q5 ✓	99	✓	1	2		3	2	10		✗	✗	HANG				3	
Q12 ✓	50	✓				3	1	13		✗	✗	HANG	PASSIVE			2	
Q20 ✓	85	✓		1		3		12		✗	✗	PARK				3	
Q30 ✓	0	✓	2	1				5		✗	✗	PARK				3	
Q39 ✓	49	✓				3		13		✗	✗	HANG	PASSIVE			3	
Q56 ✓	0	✓		2		3		6		✗	✗	HANG				2	
Q61 ✓	15	✓		3		3		17		✗	✗	HANG	PASSIVE			3	
Q76 ✓	48	✓		3		3		14		✗	✗	HANG				3	
Q87 ✓	0	✓		3		3		10		✗	✗	HANG	PASSIVE			3	
Q87 ✗	0	✓		3		3		10		✗	✗	HANG	PASSIVE			3	
QF1-1 ✓	56	✓		3		3		14		✗	✗		PASSIVE			3	
QF1-2 ✓	51	✓		1		3		9		✗	✗	HANG				3	
SF1-1 ✓	49	✓		3		3		10		✗	✗	HANG	PASSIVE			3	
SF1-2 ✓	54	✗				3		11		✗	✗	HANG	PASSIVE			3	
SF1-3 ✓	53	✓		3		3		11		✗	✗	HANG				3	