Scale your development team using Angular and Fabric8

Pete Muir
Technical Director

Joshua Wilson
Senior Software Engineer
The challenge

Diverse team - mix of skills and experience
The challenge
• Single pane of glass from multiple disparate systems
The challenge
THIS ONE GOES TO ELEVEN
KEEP CALM AND CONTINUE TESTING
Angular – Components

```typescript
@Component({
  selector: 'fb8-app',
  styleUrls: ['./app.component.scss'],
  templateUrl: './app.component.html'
})
export class AppComponent {
```

```
[Lazy]
  |_control [Lazy]
  _home [Lazy]
  WorkItemListComponent
  __gettingstarted [Lazy]
  __error [Lazy]
  :entity [Lazy]
  :entity/_settings [Lazy]
  :entity/:space [Lazy]
  :entity/:space/plan [Lazy]
  :entity/:space/plan/board [Lazy]
  :entity/:space/create [Lazy]
  :entity/:space/settings [Lazy]
```
Angular - Injection

- **app.module.ts**

```typescript
import { AuthenticationService } from 'ngx-login-client';
@NgModule({
  providers: [ AuthenticationService ]
})
export class AppModule {}  
```

- **codebases.service.ts**

```typescript
@Injectable()
export class CodebasesService {
  constructor(private auth: AuthenticationService) {
    if (this.auth.getToken() != null) {
      this.headers.set('Authorization', 'Bearer ' + this.auth.getToken());
    }
  }
}
```
Angular - Routing

- app-routing.module.ts

```typescript
export const routes: Routes = [
  {
    path: '_home',
    loadChildren: './home/home.module#HomeModule'
  }
]

@NgModule({
  imports: [RouterModule.forRoot(routes, { enableTracing: true })],
  exports: [RouterModule]
})
export class AppRoutingModule {}
```
Angular – JiT vs AoT
Webpack – resource-centric
Webpack – Bundles & Chunking
private _context: Context;
get context(): Context {
  if (this.router.url === '/_home') {
    return this._defaultContext;
  } else {
    return this._context;
  }
}
RXJS – subscribing to events

```javascript
router.events.subscribe((val) => {
    if (val instanceof NavigationEnd) {
        this.broadcaster.broadcast('navigate', { url: val.url } as Navigation);
        this.updateMenus();
    }
});
```
RXJS – operators

- map - http://jsbin.com/detozumale/1/edit?js,console
- withLatestFrom - http://rxmarbles.com/#withLatestFrom
RXJS - Replaying

- [http://jsbin.com/bekoxoqeke/1/edit?js,console](http://jsbin.com/bekoxoqeke/1/edit?js,console)
Fabric8 – Web of dependencies
Fabric8 - Releases

**v1.34.53**

*pmuir* released this a day ago

```
<a name=”1.34.53”>
```

1.34.53 (2017-05-03)

**Bug Fixes**

- **getting-started**: remove reference to username in getting-started (41db5855)

**Downloads**

- **Source code** (zip)
- **Source code** (tar.gz)
Fabric8 – per PR builds

What did we learn?

- Angular moves fast - need a way to track it better
- RXJS produces unusable stack traces – need a way to add sanity
- Integrate early, integrate often
- PRs are good
- Testing this is hard
THANK YOU

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