

Advanced State Management with Redux and @ngrx/store

Alex Thalhammer

Outline

Enitities

Data



Entities



@ngrx/entity and @ngrx/schematics

- ng add @ngrx/entity
- ng add @ngrx/schematics
- ng g module passengers
- ng g entity Passenger --module passengers.module.ts



Demo & Lab

NgRx Entities



Data

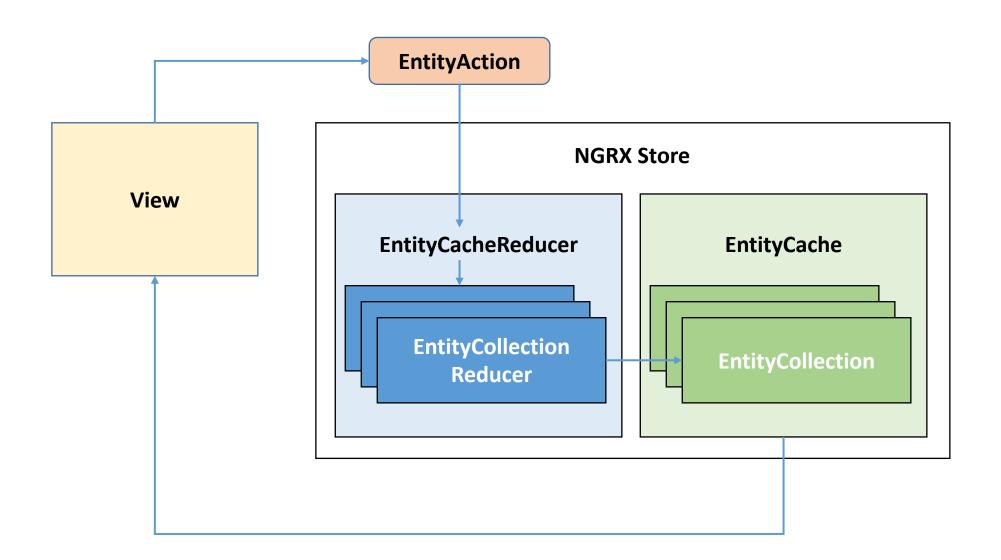


Idea

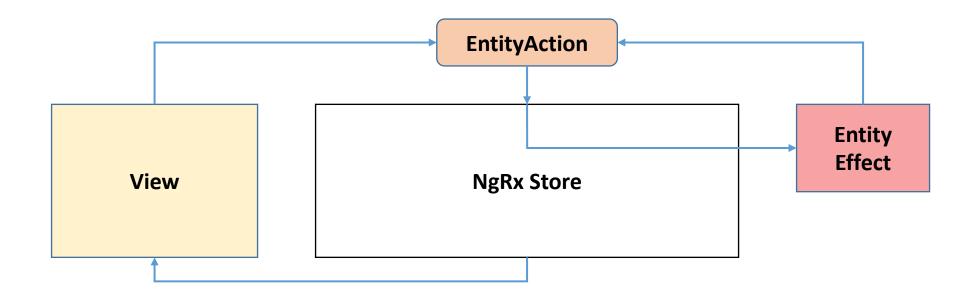
Managing entities

Generic solution

Convention over configuration









Steps

Add Configuration (Metadata)



Add generic Service



Consume generic Service



```
const entityMetadata: EntityMetadataMap = {
    Passenger: {
        selectId: (p: Passenger) => p.id // == Default
    }
};
```

```
const entityMetadata: EntityMetadataMap = {
    Passenger: {
        selectId: (p: Passenger) => p.id // == Default
    }
};
export const pluralNames = { Passenger: 'passenger' };
```



```
const entityMetadata: EntityMetadataMap = {
    Passenger: {
        selectId: (p: Passenger) => p.id // == Default
};
export const pluralNames = { Passenger: 'passenger' };
export const entityConfig: EntityDataModuleConfig = {
    entityMetadata,
    pluralNames
};
```



```
export const defaultDataServiceConfig: DefaultDataServiceConfig = {
    root: 'http://www.angular.at/api'
}
```



```
@NgModule({
  imports: [
    EntityDataModule.forRoot(entityConfig),
  providers: [
      provide: DefaultDataServiceConfig,
      useValue: defaultDataServiceConfig
    },
export class AppModule {}
```



Generic Data Service



Generic Service

```
@Injectable({ providedIn: 'root' })
export class PassengerService
                extends EntityCollectionServiceBase<Passenger> {
    constructor(serviceElementsFactory:
                   EntityCollectionServiceElementsFactory)
        super('Passenger', serviceElementsFactory);
```





Passengerservice entities\$ loading\$ getBykey()
getWithQuery()
add() update() apsert()
delete()



Demo & Lab

NgRx Data

