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Advanced State Management With NgRx

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Outline

- Entities
- Data



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SOFTWARE
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Entities



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@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



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Demo & Lab

NgRx Entities



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Data



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Idea

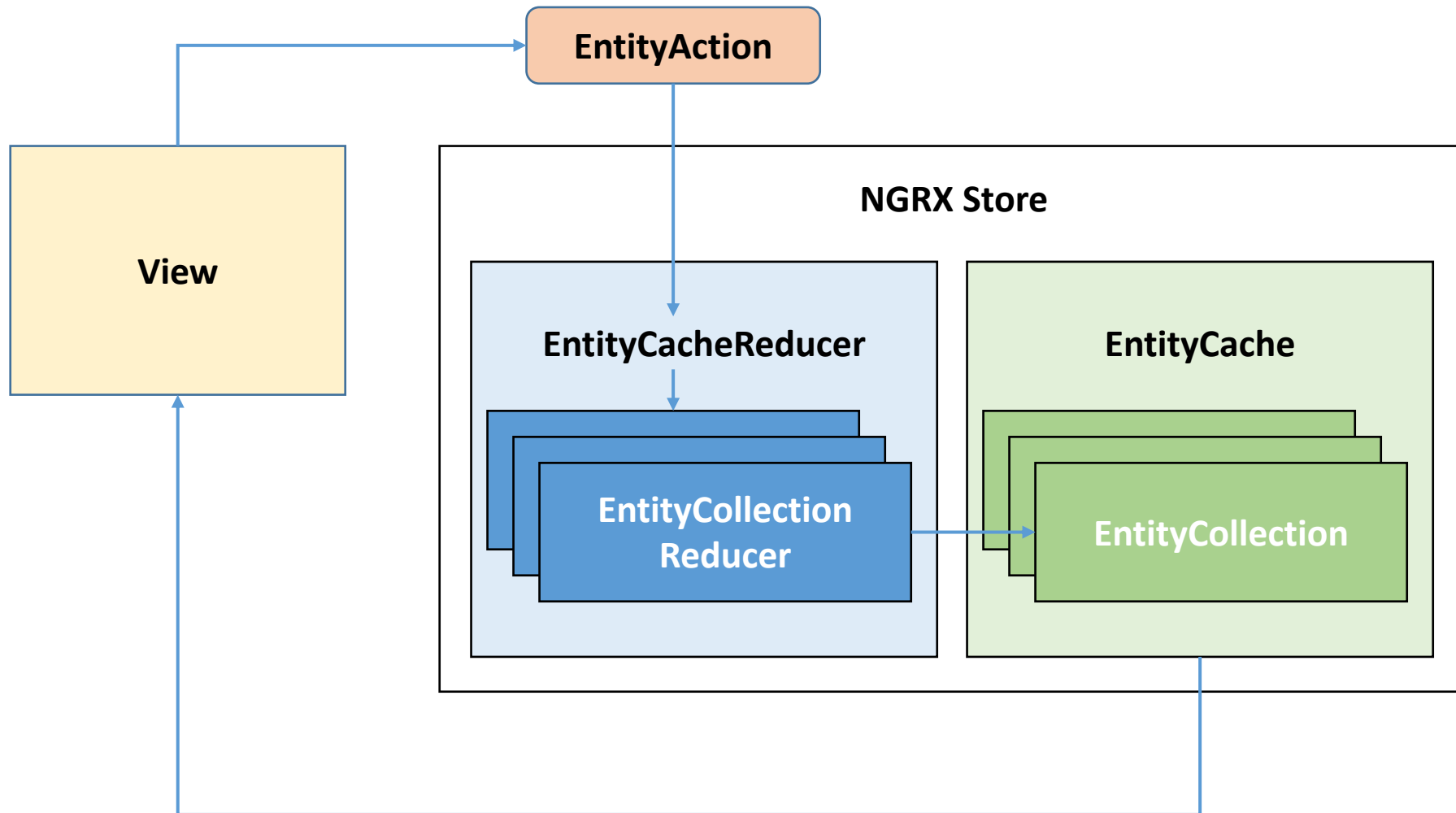
- Managing entities
- Generic solution
- Convention over configuration



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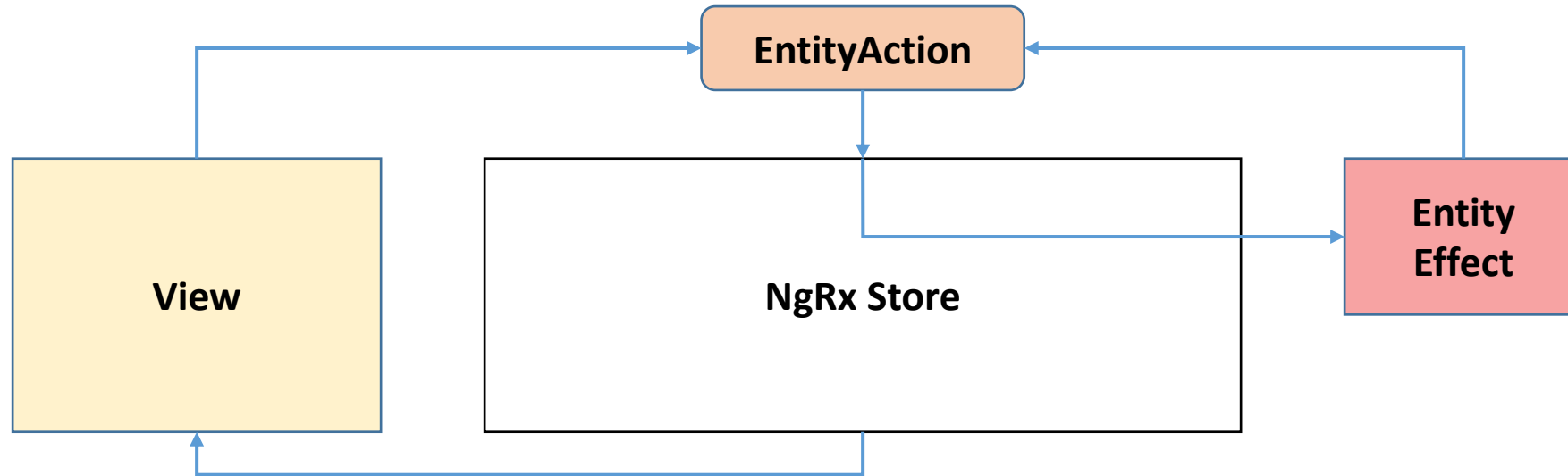
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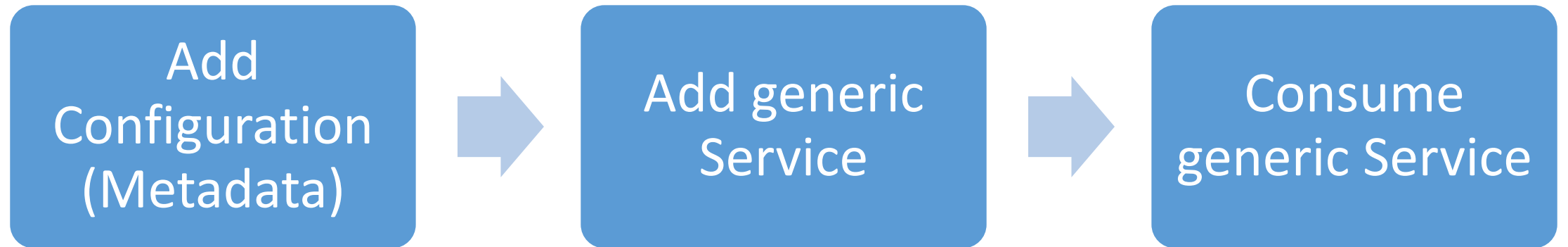
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Steps



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Configuration

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



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Configuration

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



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Configuration

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



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Configuration

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



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Configuration

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



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Generic Data Service

```
@Injectable({ providedIn: 'root' })  
export class PassengerService  
    extends EntityCollectionServiceBase<Passenger> {  
  
    [...]  
}
```



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Generic Service

```
@Injectable({ providedIn: 'root' })
export class PassengerService
    extends EntityCollectionServiceBase<Passenger> {

    constructor(serviceElementsFactory:
        EntityCollectionServiceElementsFactory)
    {
        super('Passenger', serviceElementsFactory);
    }

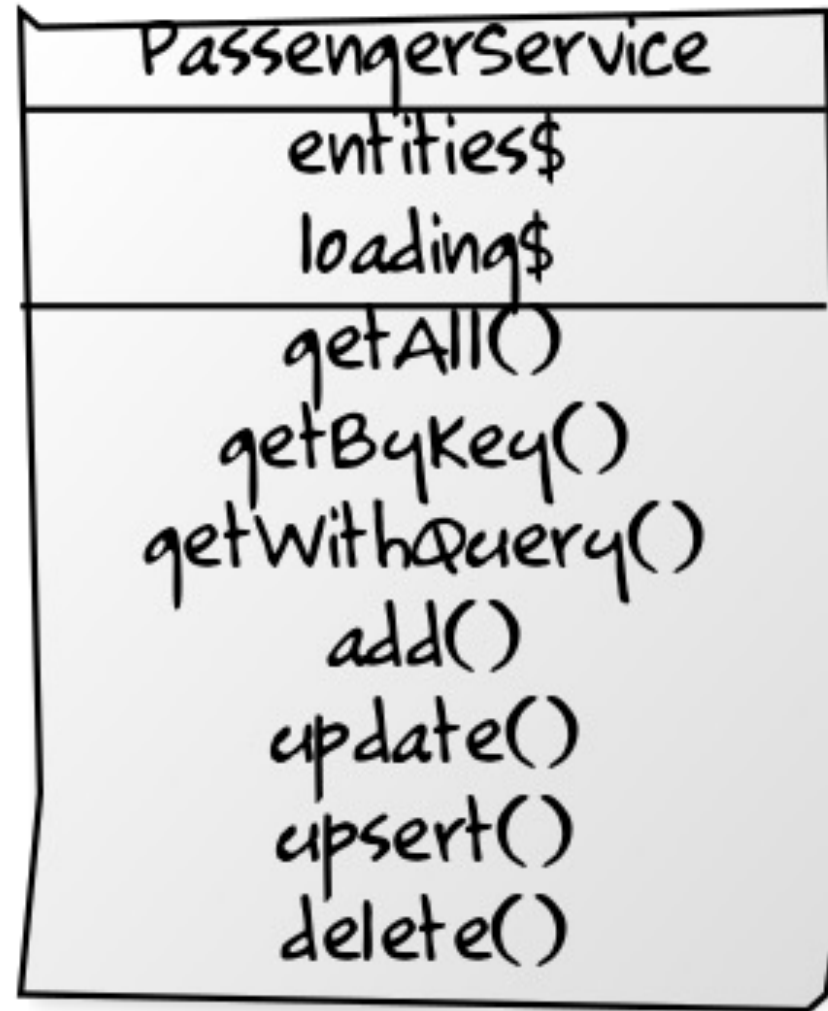
}
```



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NgRx Data



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