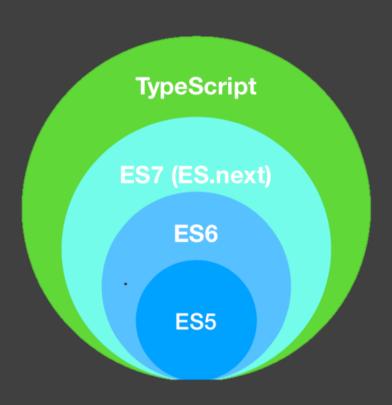
# 领域驱动的FRP复合范式 在复杂前端应用的实践

中电六所 胡戎

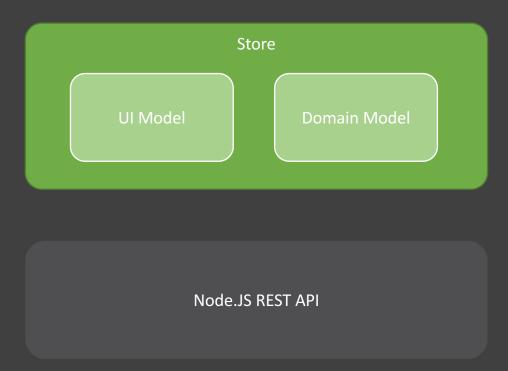
#### 主题

- 前端应用发展的现状
- 函数响应式编程在前端的应用
- DDD在前端开发中的应用

## 前端应用发展现状



## DDD在前端开发中的应用



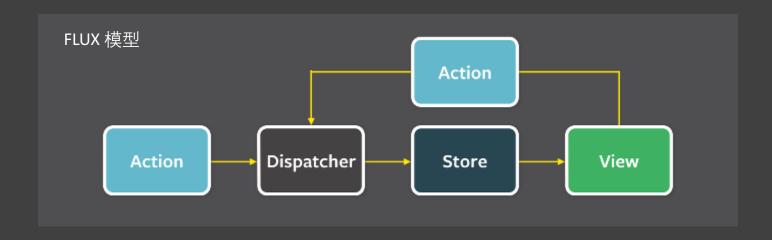
### DDD在前端开发中的应用

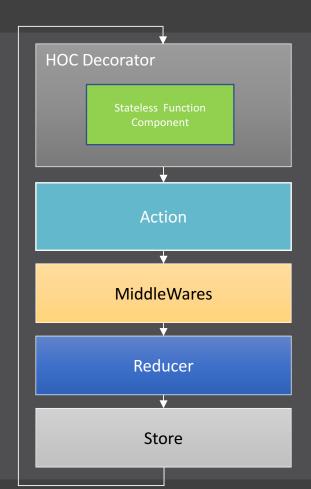
```
export interface IProject{
    id:number,//项目ID
    pname:string,
    start_time:string,
    responserID:number,
    groupID:Array<number>,
}
```

#### └ /工作项目/人力资源项目/人力资源项目源码/src/Client/epics/ComplexSearchPlan/SearchPlansEpic.ts

- Error: (82, 49) TS2339:Property 'somefield' does not exist on type 'IProject'.
- ▎/工作项目/人力资源项目/人力资源项目源码/src/Server/Controller/ProjectController.ts
  - Error: (42, 33) TS2339:Property 'someField' does not exist on type 'IProject'.

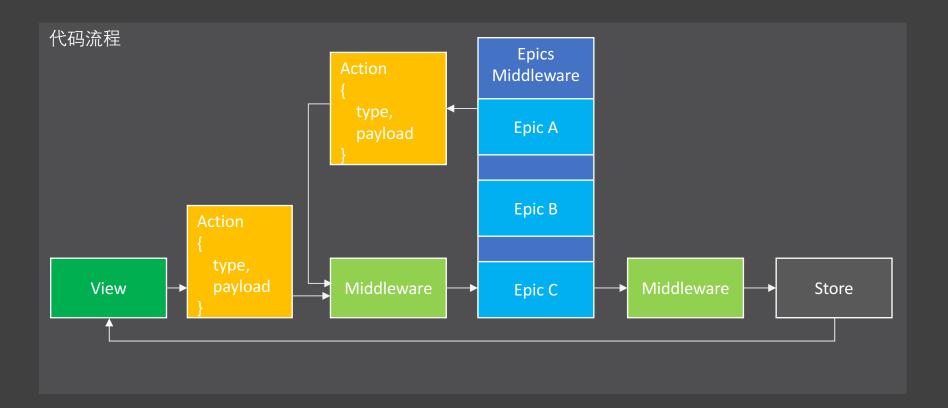
## 前端应用发展现状



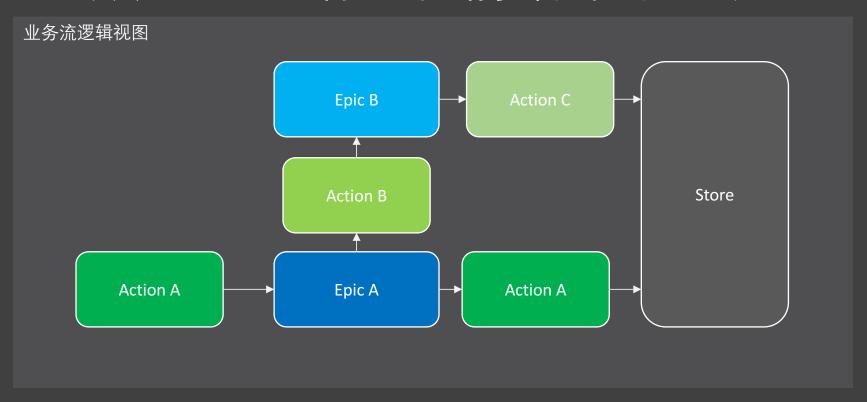


```
export interface orderProps {
    plan?: ISearchPlan
    fieldNames?: Array<filedObject>
    tableNames?: Array<string>
    onTabelSelected?: () => void,
    onFieldSelected?: () => void,
    onDeleteRuleItem?:(ruleIndex)=>{
    onPlanRuleADD: (selectedPlanID)=>any
const EmployeeComplicatedRulesTablePanel: React.SFC<orderProps>
    const {plan} = props;
    const columns : TableColumnConfig<IRules>[] = [...];
    return (<Table columns={columns} dataSource={plan?plan.rules
     return (<div className={'Complex-title'}>
         <div className="ComplexTitle-text">{plan?plan.planName
         <div className="ComplexTitle-AddBtn">
             <Button icon={'save'} type={'primary'} onClick={()</pre>
```

## 函数响应式编程在前端中的应 用



### 函数响应式编程在前端中的应用



### 1传统模式

#### 1 Race Condition

```
export const initComplexSearchEpic = action$ => {
    return action$.ofType(OnSearchPlanInfoInit.type)
        .switchMap(()=>{
        return Observable.forkJoin(
            [Observable.fromPromise(SearchPlandao.getAllSearchPlans()),
            Observable.fromPromise(SearchPlandao.GetEmployeeTablesName())
        ])
        .map(([searchPlans,EmployeeTables])=>{
            return OnSearchPlanInfoInitSuccess(searchPlans.data,EmployeeTables.data)
        }).catch(e=>{
            return ActionsObservable.of(OnSearchPlanInfoInitError(e))
        })
}
```

#### 2 渐进式查询

```
rx.Observable.merge(
    rx.Observable.fromPromise(orgSearch),
    rx.Observable.fromPromise(EmployeeSearch))
    .scan((acc,value)=>{
        switch (value.type){
            case 'org': return acc.org=value;
            case 'Employee': return acc.Employee=value;
        }
},{})
```