

R lab 移动端团队技术架构体系及演进

R-Lab 2018年02月28日 Peter (子成)



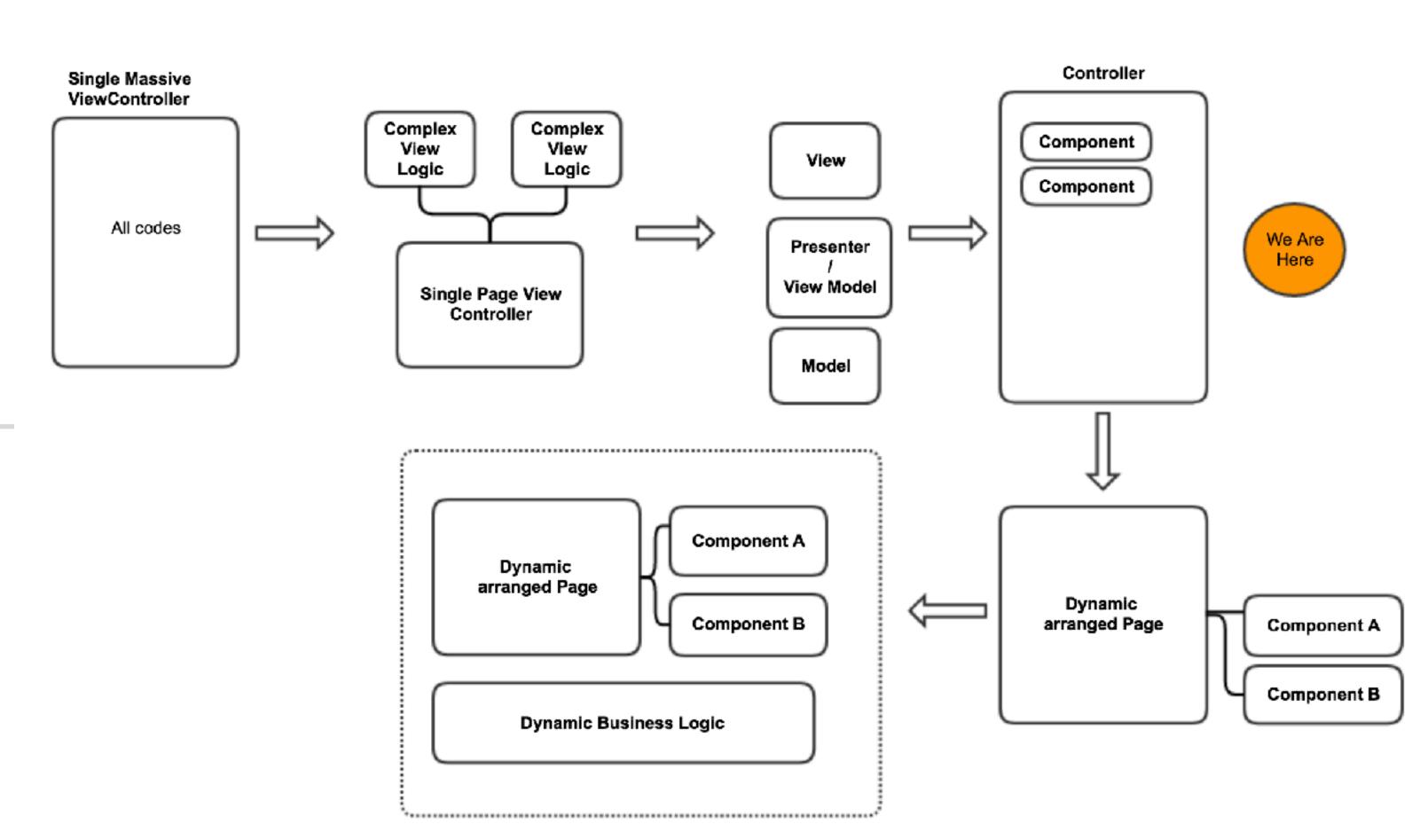
目录

- 1 History 技术演进的历史
- 2 Nova 自己造个轮子
- 3 Skeleton 规范代码
- 4 Thinking 我们对移动端架构的思考
- 5 Goto 下一步做什么
- 6 Others 怎么做好业务开发





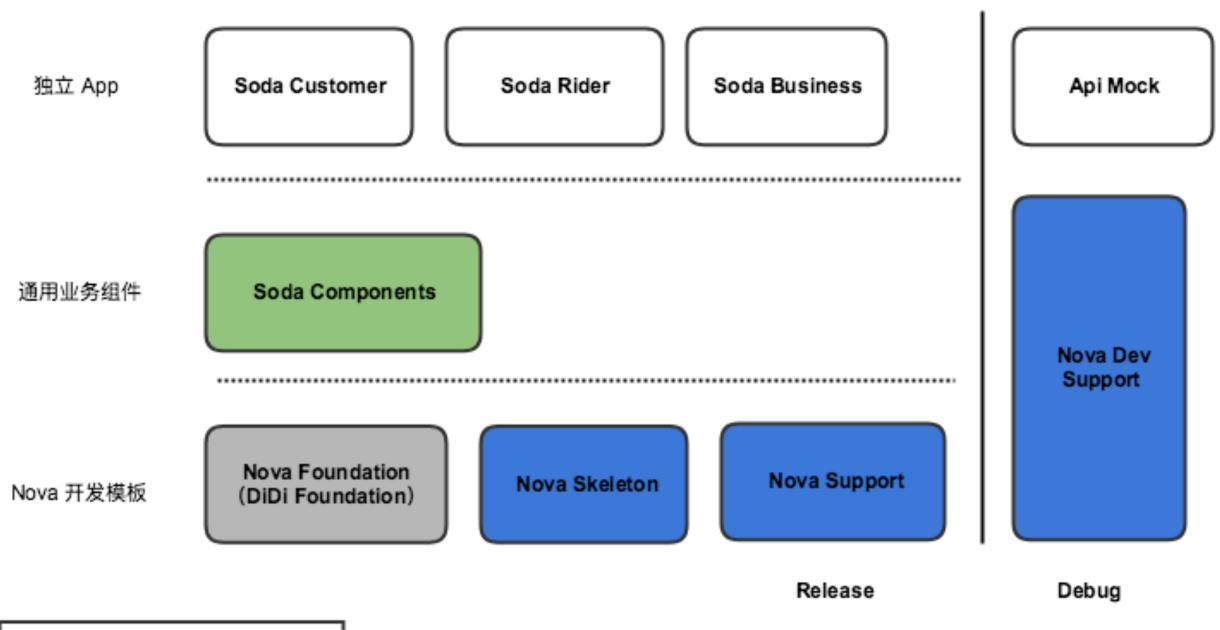








CHAPTER - 02
Nova



具体应用

公司和业务都无关

公司服务相关

Soda业务相关

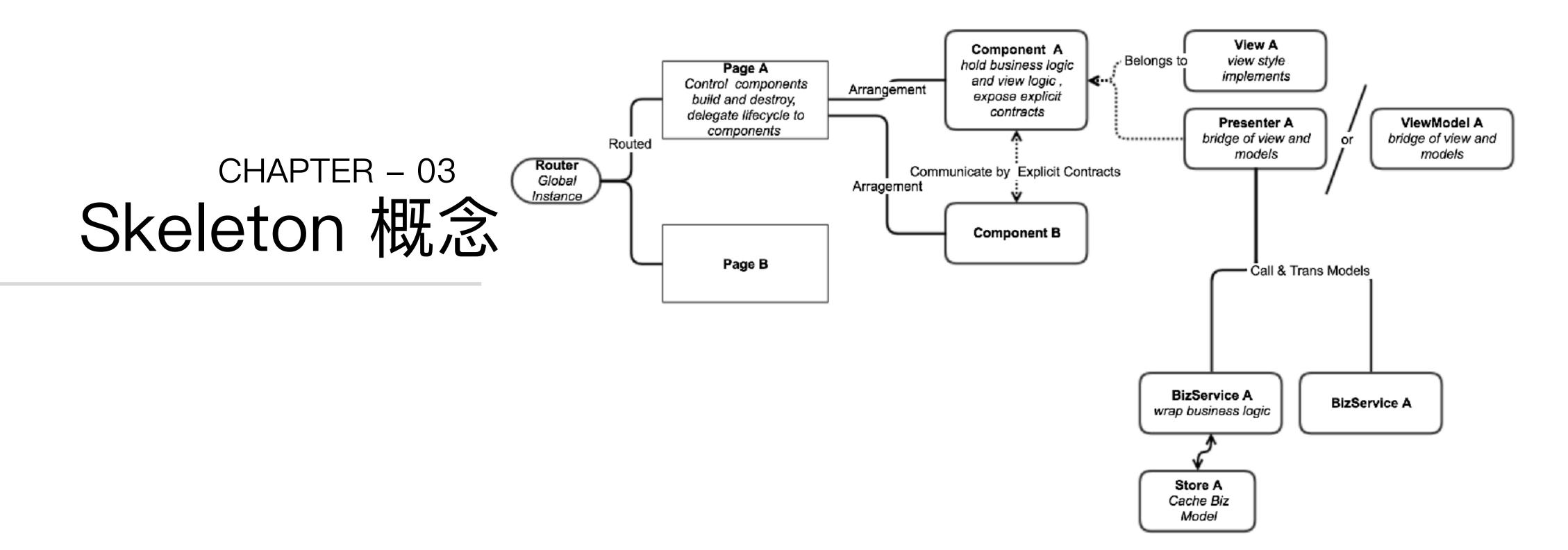


CHAPTER - 02 Nova Skeleton

1 分层

2 概念

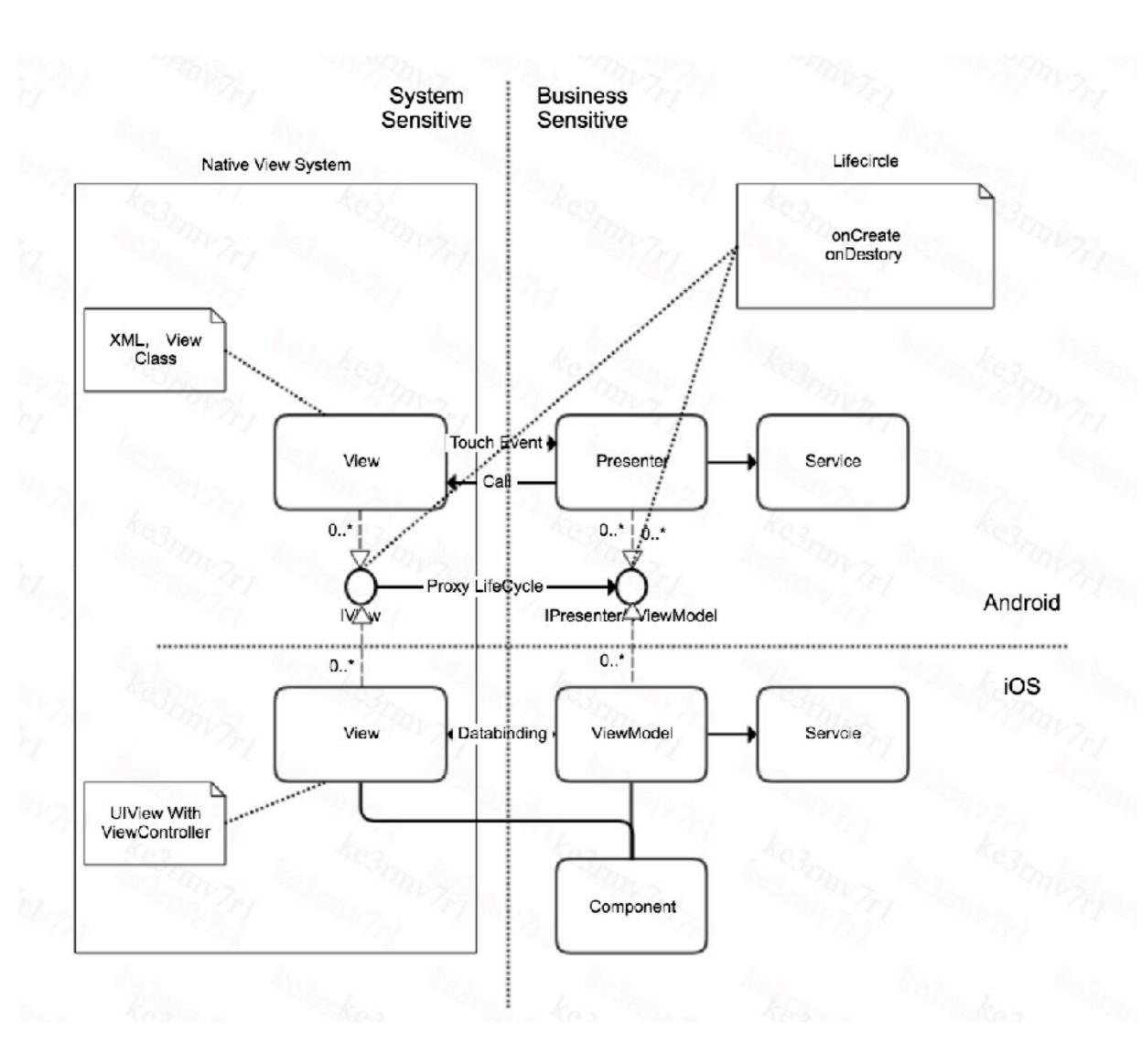
3 Demo







CHAPTER - 03 Skeleton 概念







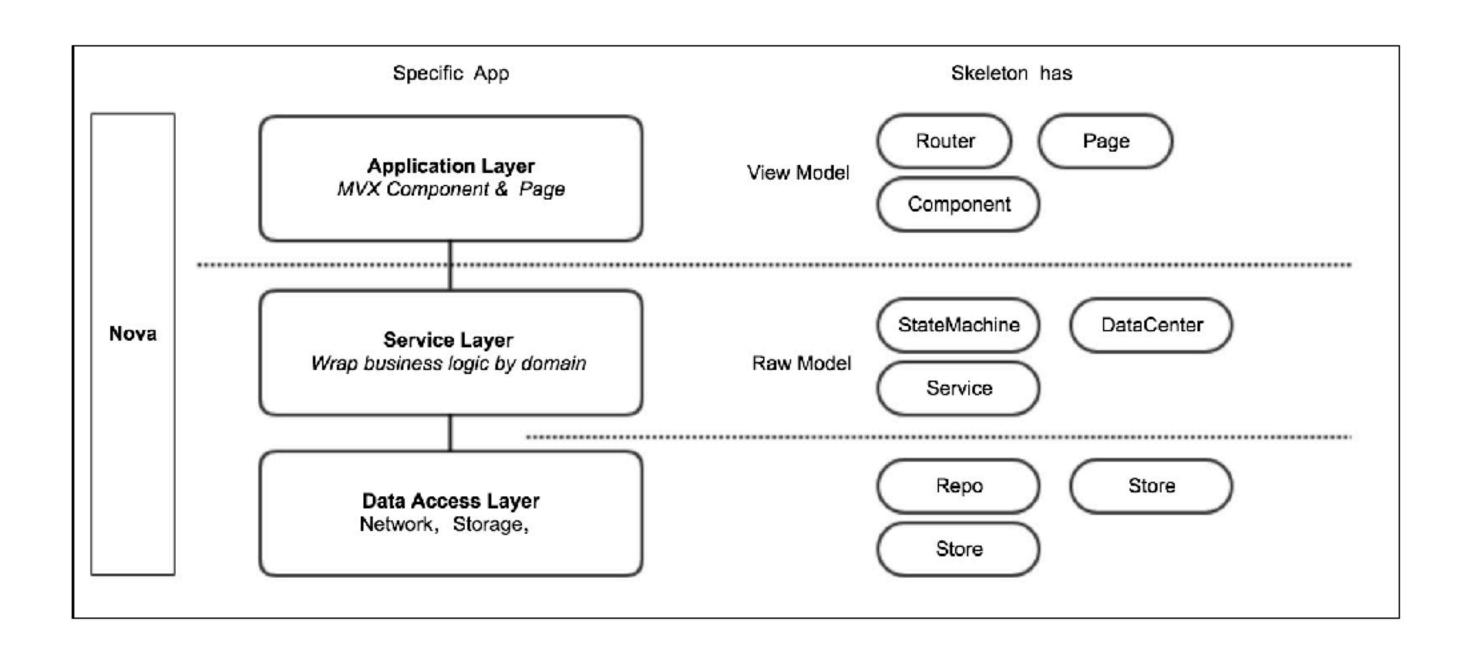
CHAPTER - 03 Skeleton 跨端

概念	职责	接口	Android	ios
View	UI 展示能力	IView UIView	onCreate()onResume()onPause()onDestroy()	System Default
Presenter / ViewModel	UI 逻辑	IPresenter SKViewModel	onCreate()onResume()onPause()onDestroy()	
Service	业务逻辑封装	462		
Repo				
Component	管理View& View Model	IComponent SKComponent	onCreate()onResume()onPause()onDestroy()	 - (void)viewDidLoad { } - (void)viewWillAppear { } - (void)viewDidAppear { } - (void)viewWillDisappear { } - (void)viewDidDisappear { }
ComponentManager	管理Components	Agoran Ag	addComponent removeComponent getComponent	- (void)addComponent: - (BOOL)containsComponent: - (void)removeComponent:
Page	管理Components & 对接接口	BasePage/ MvPage SKPage	 onInitialize() onCreate() onResume() onPause() onDestroy() onFinalize() 	SKPageLifeCycleViewDidLoad = 0, // index 索引 SKPageLifeCycleViewDidLayoutSubViews, SKPageLifeCycleViewWillAppear, SKPageLifeCycleViewDidAppear, SKPageLifeCycleViewWillDisappear, SKPageLifeCycleViewDidDisappear
Router	管理Page的跳转	DiRouter	DiRouter.request().path("path").open()	and the second second





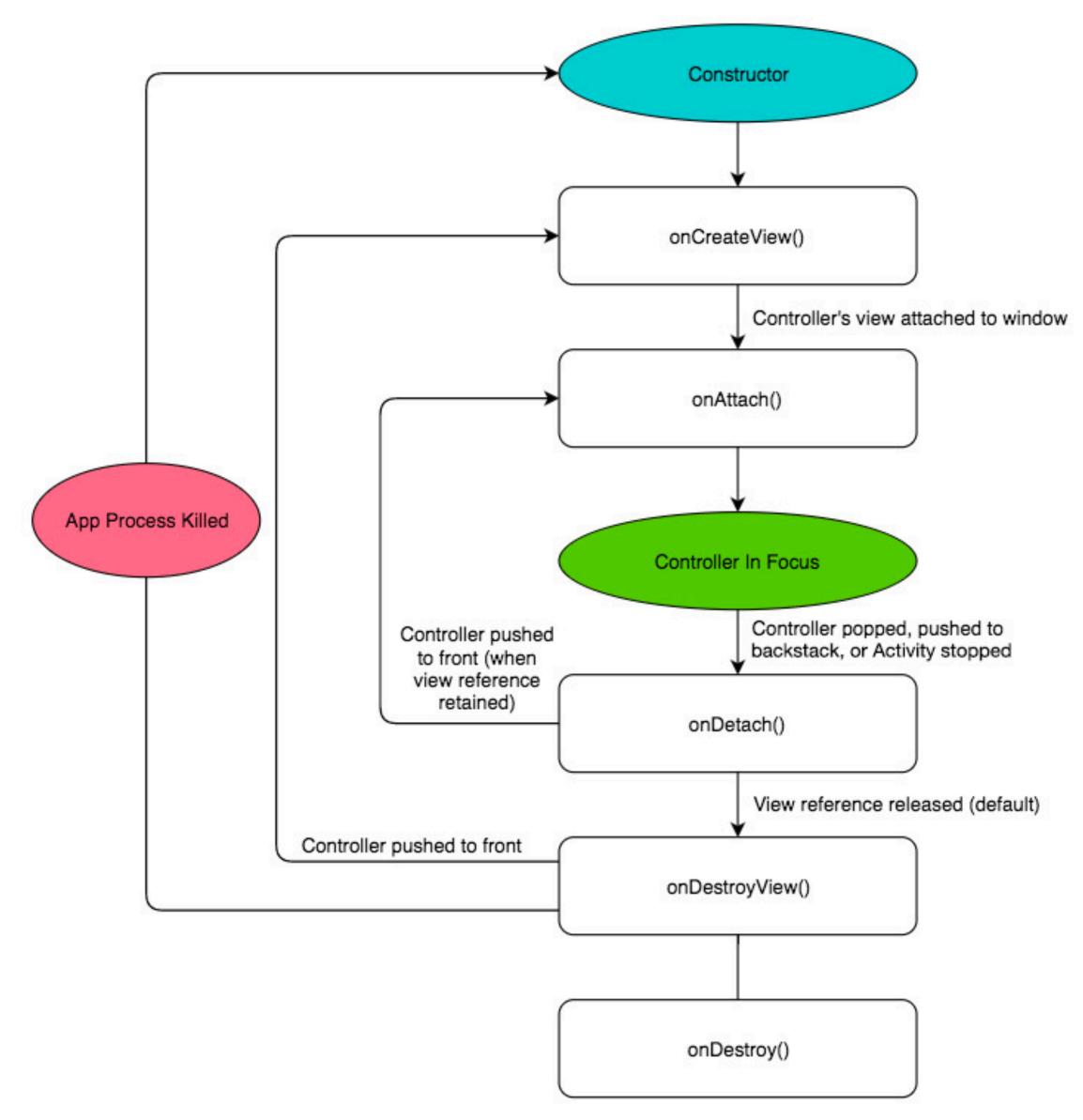
CHAPTER - 03 Skeleton - 分层





Conductor

https://github.com/bluelinelabs/Conductor





Dsl & Compiler

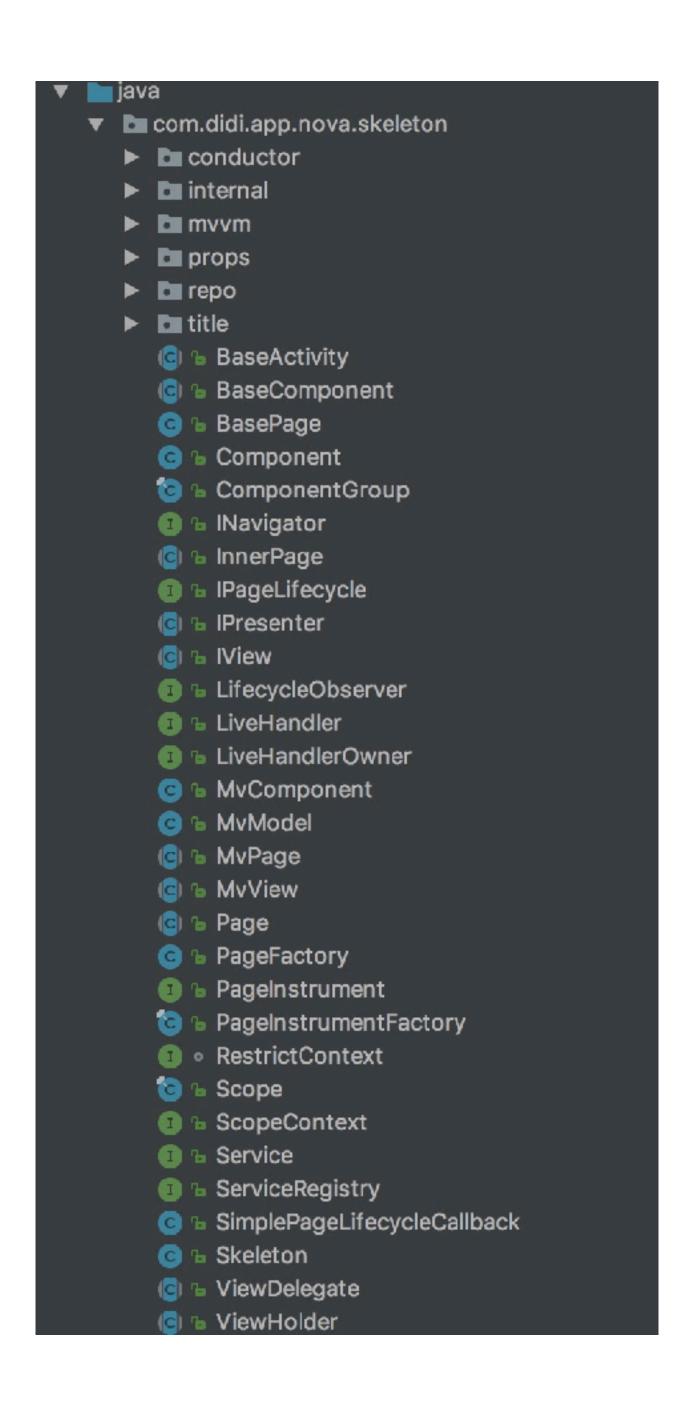
- 1. 使用注解的方式处理之前通过负载方法搞定的代码 Java版本的实现稍显拙略 (Now)
- 2. 在Kotlin的Skeleton版本中提供更合理的实现 (Future)

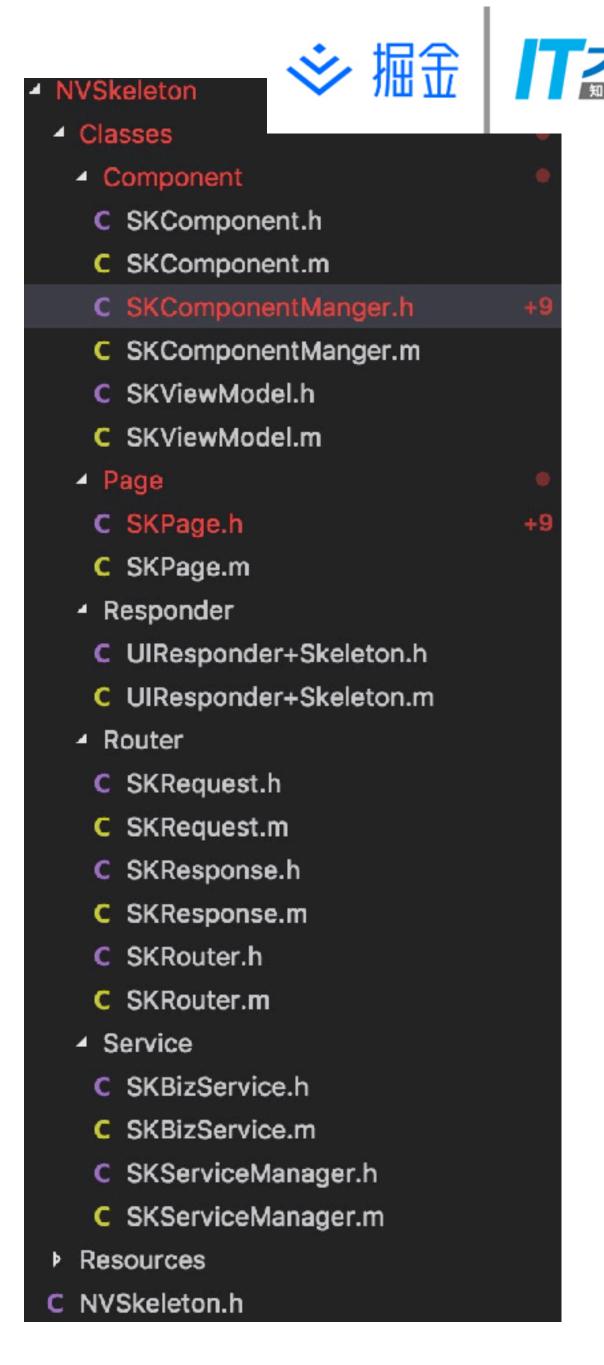
Router

- 1. 实现页面之间的解耦 (Now)
- 2. 参考前端Router的实践,彻底实现View的无状态化(Future)



Skeleton Code











```
* Created by Alizon on 2018/26/02.
@PageDsl(
        layout = R.layout.mvvm_page,
        components = {
               @Stub(component = MvComponent1.class, containerId = R.id.com1),
               @Stub(component = MvComponent2.class, containerId = R.id.com2),
public class MyvmMainPage extends MvPage {
   private MvRv mModel;
   public MvvmMainPage(Bundle args) { super(args); }
    @Override
   protected void onCreate(View view) {
        super.onCreate(view);
       MyvmPageBinding binding = (MvvmPageBinding) getBinding();
       mModel = new MvRv();
       mModel.name = "MvvM";
        binding.setModel(mModel);
```

Page

```
* Created by Alizon on 2018/08/02.
@ComponentDsl(view = MvComView1.class,
       model = MvComModel1.class,
       layout = R.layout.mv_view1)
public class MvComponent1 extends MvComponent {
   @Override
   protected void onCreate() {
       super.onCreate();
   @Override
   protected void onDestroy() {
       super.onDestroy();
```

```
Component
```

```
:lass MvComView1 extends MvView<MvComModel1, MvView1Binding> {
  protected void onCreate() {
      super.onCreate();
      mViewModel.name = getClass().getSimpleName();
      mBinding.setModel(mViewModel);
```

View

```
ublic class MvComModel1 extends MvModel implements DslIModel {
 public String name;
 private int count;
 public void onButtonClick() { getProps().put( k: "key", v: "" + (++count)); }
 public void onPropsChanged(String key, PropsMap map) {
      super.onPropsChanged(key, map);
```

ViewModel

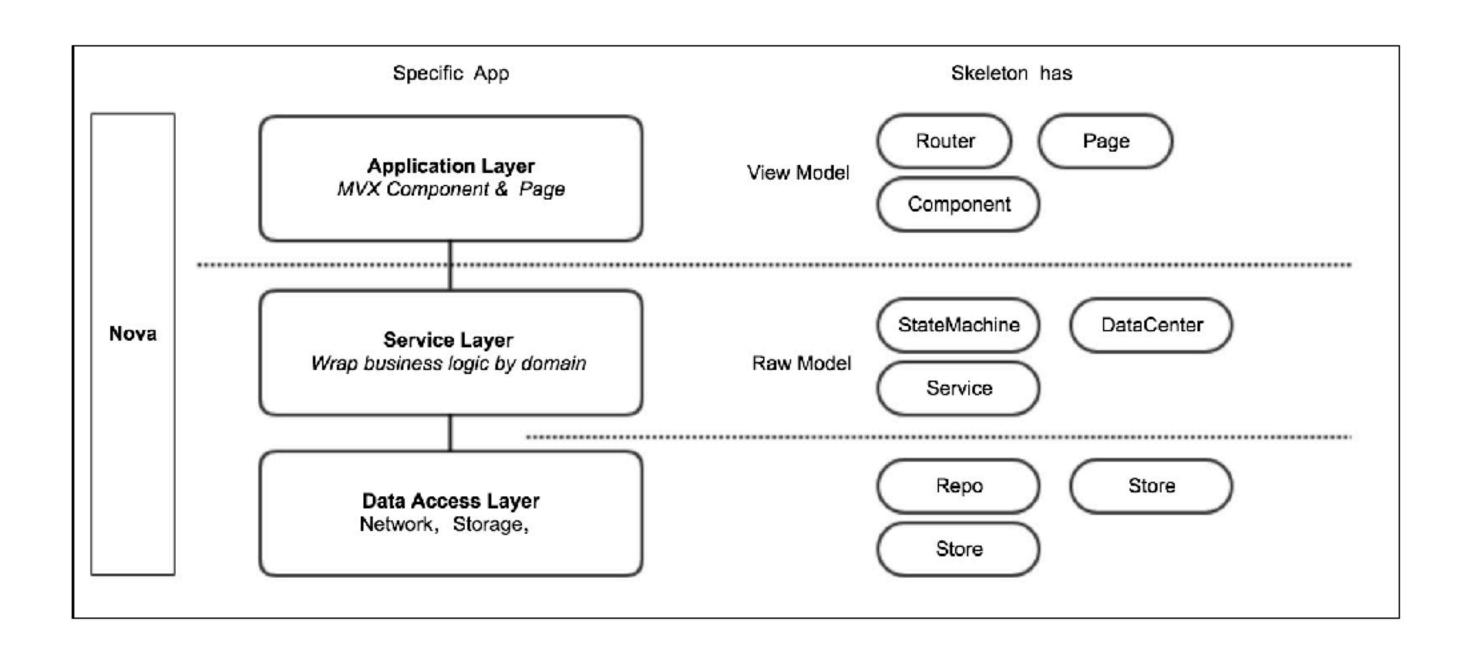


Demo



CHAPTER – 03

Thinking





Thinking (如何思考的)

- 1. Ability (DiDi Ability) Nova Foundation
- 2. Principle Nova Skeleton
- 3. Utility Nova Support / Design / Assembly
- 4. Engineering Nova Dev Support
- 5. Business Specific Applications





CHAPTER - 05 Goto

方向	已经支持的功能	后续
Router	1. 页面间跳转 2. 跳转拦截	1. 打通跟H5& Hybird 技术方案的交互 2. 服务器端可配置
Component	1. MVP 2. MVVM a. MVVM的数据绑定 b. Page内组件间通信	1. Kotlin 语言的 Dsl 版本 2. DataBinding 对RecycleView 的支持
Page	1. MVP 2. MVVM	2. Kotlin 语言的Dsl 版本
Repo	Repo a. Live Data b. autorelease	1. Repo 模板
Service		1. 统一的Service注册及发现 a. Service的生命周期管理
Build	1. Mono Repo Submoudle 的代码管理	1. 统一的cli 工具 a. 增加项目 b. 统一提交 c. 抓取代码 2. 脚本的统一
Design	无 (立项阶段)	 统一的Widget 库 为 Widget 提供 DataBinding 支持 Spinner 的富文本支持
Hybird	无 (立项阶段)	1. Weex 作为一些弱交互界面的解决方案



CHAPTER – 06 Other

- 1 思维纠偏 关于业务开发工程师的一些误解
- 2 走出舒适区 走出任何领域的舒适区
- 3 思考本质 思考解决的本质问题
- 4 理解业务,助力业务 Be a member of team
- 5 迁移 迁移自己的能力
- 6 机遇 Be a lucky man



Q&A