

应用动态化之NativeAPI Dynamic App

客户端与H5如何优雅的互动

淘粉吧 T+C

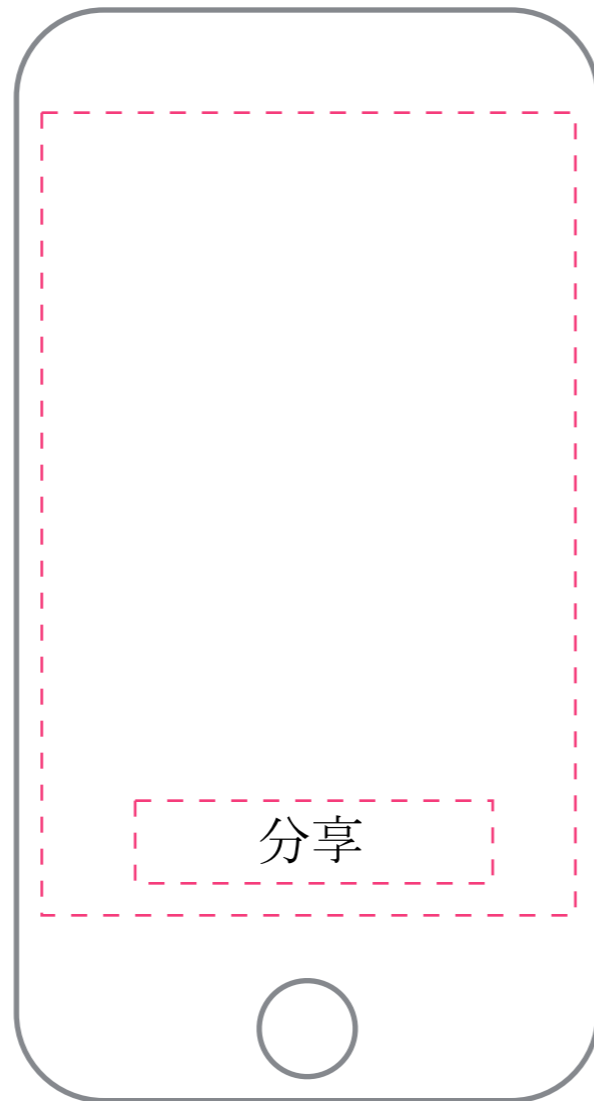
2015.9

场景1

Scene Part1

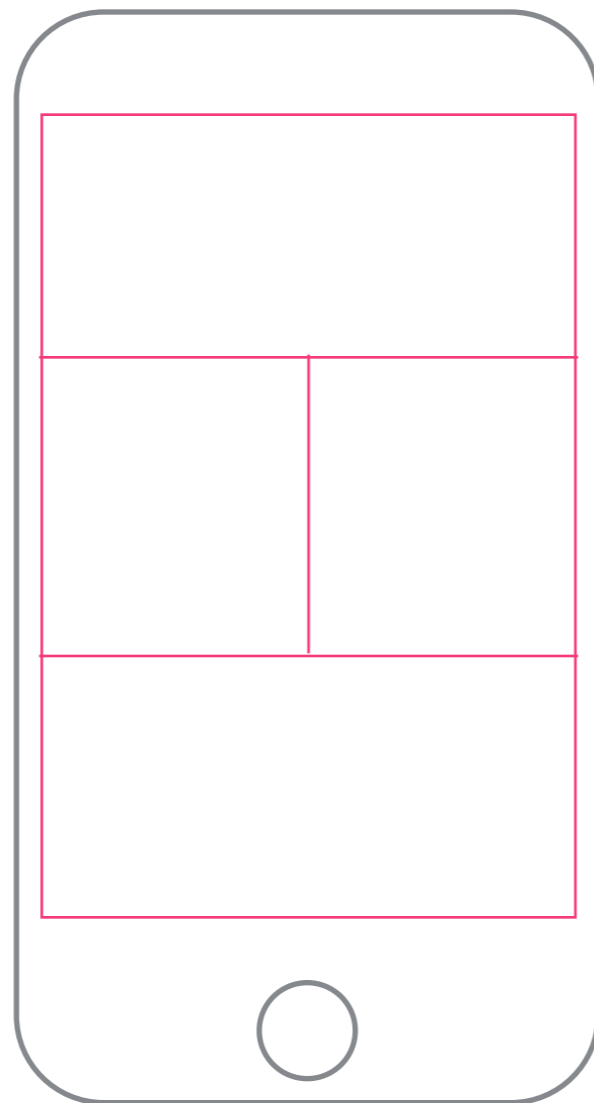
—— native

- - - wap



场景2

Scene Part2



应用

apply

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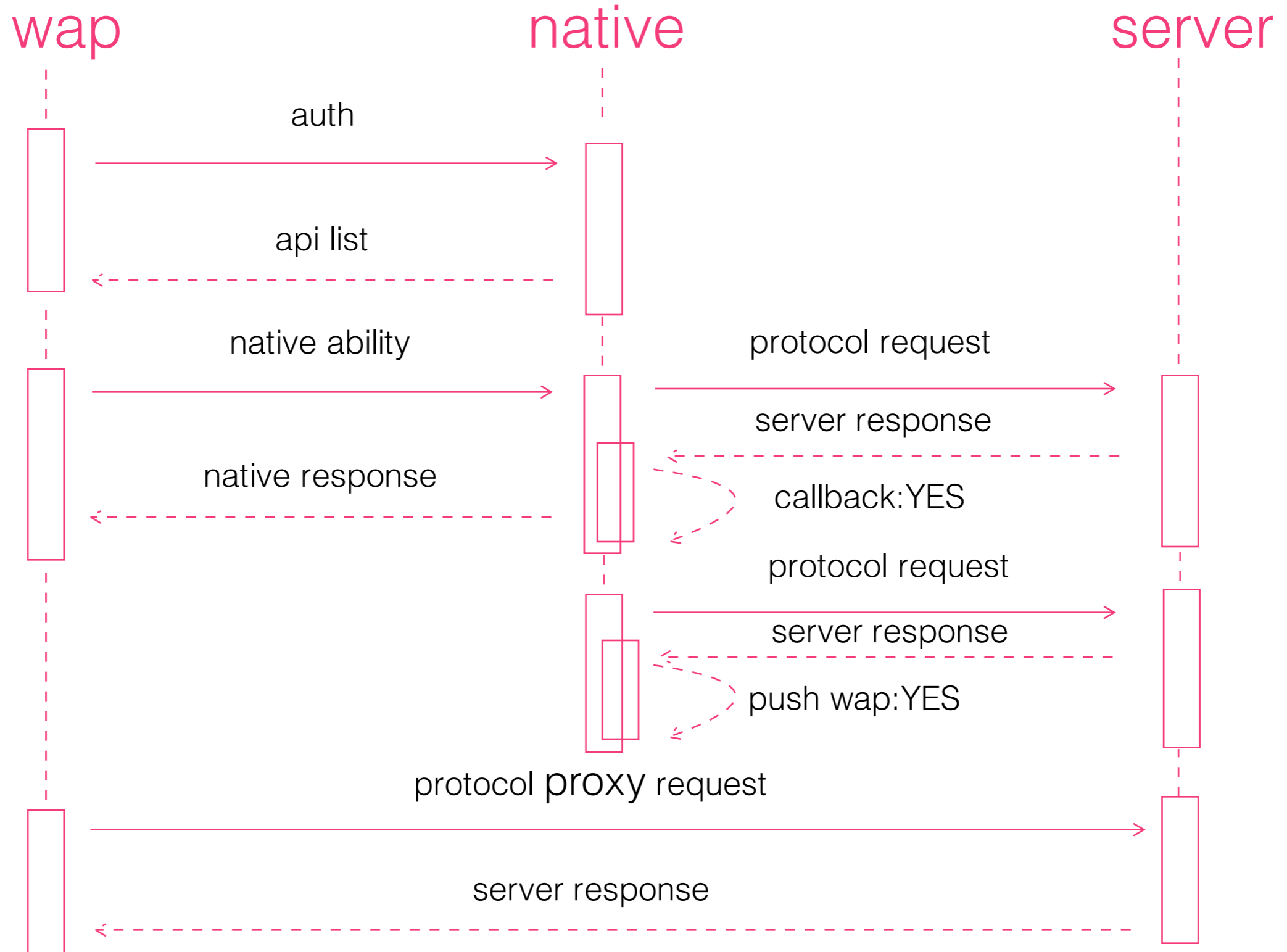
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Native API sequence



API原型1 prototype 1



Native开放接口

API原型2 prototype 2

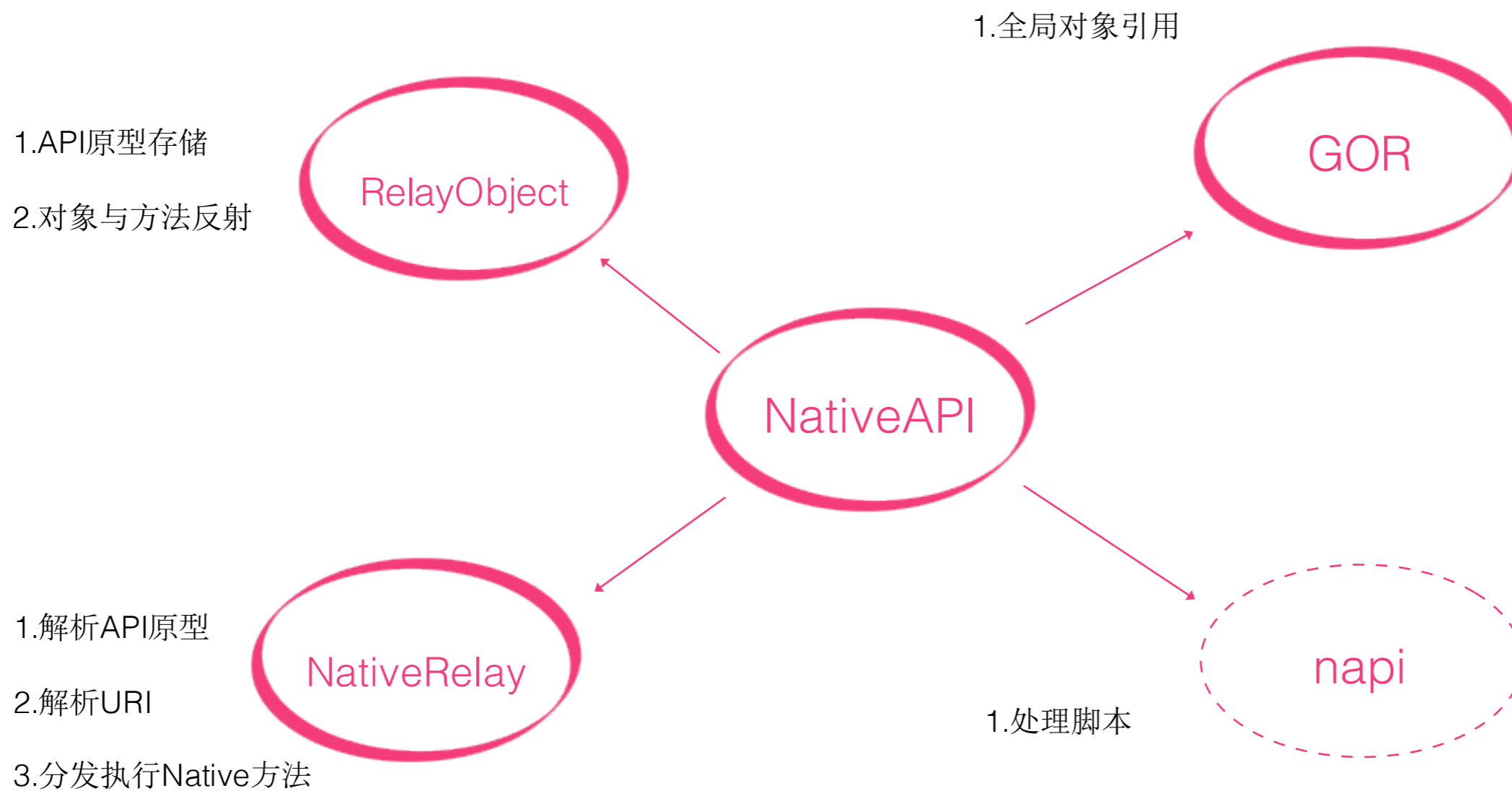


支持类型

- 基本类型: Int, Long, Float, Double, Bool
- 复杂类型: String, Any, [](Array), {}(Dictionary), {Custom}

Native已有方法

构成1 compose part1



apimap **example**

echo(content)->(content)~NativeAbility

NativeAbility.m example

```
#pragma mark -
#pragma mark Native API - echo - Function Block
static NSString * echo_CALLBACK_ID = @"";
- (void)Native_echo_context:(id)context content:(NSString *)content cbId:(NSString *)cbId{
    echo_CALLBACK_ID = cbId;
    /* Coding
    ...
    */

    [self Native_echo_callback:content];
}

- (void)Native_echo_callback:(NSString *)content{
    [[NSNotificationCenter defaultCenter]
    postNotificationName:@"Native_notify"
    object:self
    userInfo:
        @{
            @"content":content,
            @"cbId":echo_CALLBACK_ID
        }];
}
```

xx.js example

```
lx.echo("hello word",function(ret){alert(ret.content)})
```

Demo

API列表

api list

pop()->()

alert(title,message, cancelButtonTitle,confirmButtonTitle)->(clickIndex)

push(code,{})->()

toRoot(tabIndex)->()

openUrl(scheme)->()

canOpenUrl(scheme)->(status)

hookBack-(which)

webTitle(title)->()

toast(msg)->()

shakeServicesEnable()->(status)

shakeServicesDisable()->(status)

shakeServicesAction()->(status)

download(url)->()

location()->(lat,lng)

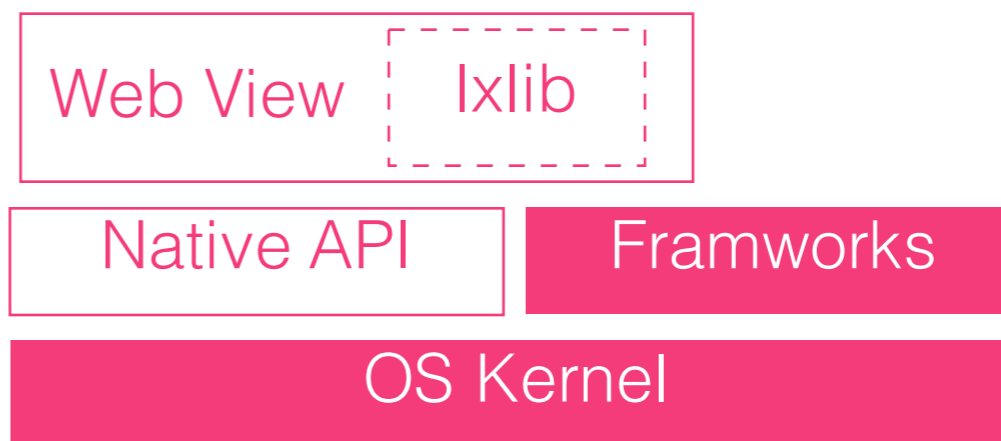
login()->(userId,userNick,userAvatar)

scheduleNotification(time,content)->(status)

share(channel,title,url,imageUrl)->(status)

结构图

Arch



目的

purpose

- 优化h5桥接开发结构
- h5获取客户端已知信息（设备，用户信息）
- h5移交耗时操作（数据签名，加解密）
- 客户端帮助h5构建缓存

后续

next

- 更丰富的Native API
- 动态化中间件（效率，热补）