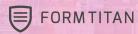


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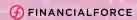


















Using & Building Lightning Service Components

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Barcelona 2018



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Statement under the Private Securities Litigation Reform Act of 1995

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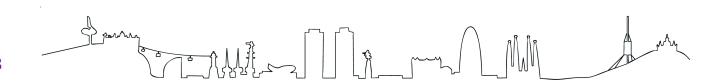
Agenda

Lightning service components

Base service components

How to build your own







Lightning Service Components

Provides services (API)

Generic & reusable

No graphical representation







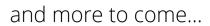
Using Base Service Components



Base Service Components

As of Spring '18:

- Lightning Data Service
- Notification library
- Overlay library
- Workspace API
- Omni-Channel Toolkit API (Beta)
- Utility Bar API



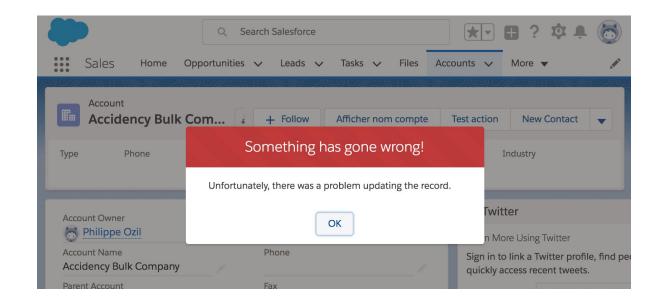








Example: Notification Library







Example: Notification Library





Building a Custom Service Component



Identifying a Custom Service Candidate

Can it be reused?

- simplifies component's code
- avoids code duplication

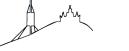
Calling a server-side action is a great match!

+ tens of line of code

Introducing the Server Action Service

```
(~100 lines of IS)
```

```
myServerSideAction : function(cmp, someParams) {
    var action = cmp.get("c.myAction");
    action.setParams(someParams);
    action.setCallback(this, function(response) {
        var state = response.getState();
        if (state === "SUCCESS") {
            // Do something with response
        else if (state === "ERROR") {
            var errors = response.getError();
            if (errors) {
                // Handle errors
            } else {
                // Handle unknown error
    });
    $A.enqueueAction(action);
```



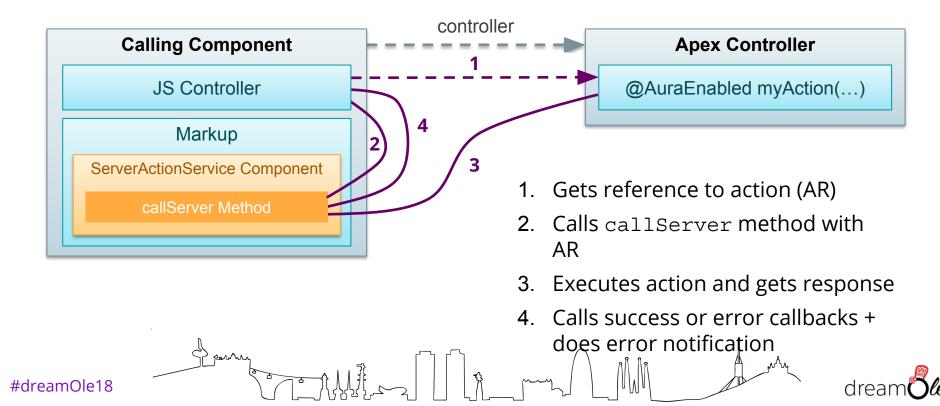


Server Action Service



https://github.com/pozil/server-action-service

Architecture



Server Action Service



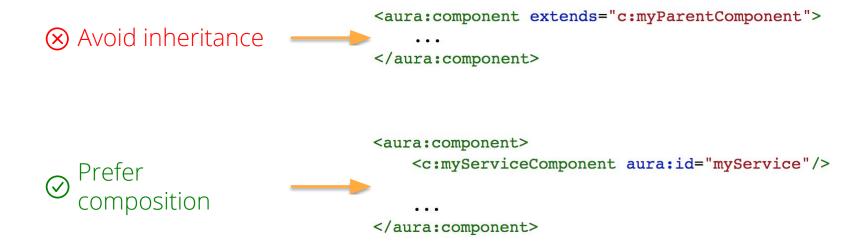
Using the service (<10 lines of code)

```
<aura:component controller="MyApexController">
    ...
</aura:component>
callMyServerSideAction : function(cmp, someParams) {
```



Architecture Bad & Best Practices (1/2)

When building your service...





Architecture Bad & Best Practices (2/2)

Expose services via...

```
Events
```

```
<aura:handler event="c:myServiceRequestEvent" action="{!c.doSomething}"/>
<aura:registerEvent name="myServiceNotificationEvent" type="c:myServiceNotificationEvent"/>
```





Closing words

Overview of Lightning Service Components

Efficient and safe way to reuse code

Use them and build your own!





Q&A



















