

Lightning Component Best Practices

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I Am Also a Pluralsight Author



- Getting Started Building SPAs with Lightning Components
- Customizing Salesforce with Lightning Components
- Lightning Component Development Best Practices



Why Should I Case About Performance?





In the Mobile World Every Millisecond Counts

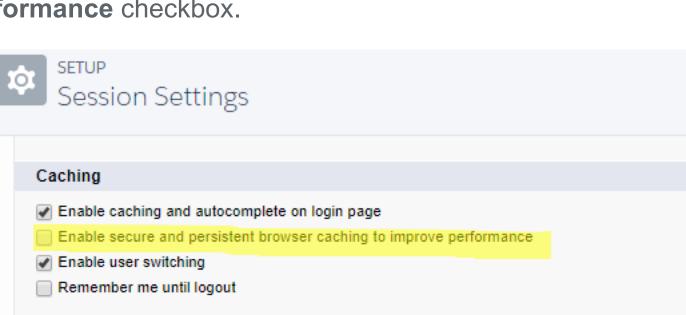
#6 – Check your Settings



Enable/Disable Component Caching:

- 1. From Setup, go to **Session Settings**.
- 2. Select/Deselect the **Enable secure and persistent browser caching to improve performance** checkbox.
- 3. Click Save.







Definitely Enable for Production

#6 – Check your Settings



For SalesforceDX developers, you can disable the setting automatically for scratch orgs with the following line in your config file

#6 – Check your Settings



To Enable/Disable Debug Mode:

- 1. From Setup, go to **Debug Mode**.
- 2. Enable/Disable the checkbox for a specific user.



ONLY Enable for Development or Sandboxes

Debug Mode Users

Enable debug mode to make it easier to debug JavaScript code from Lightning components. Only enable debug mode users who have debug mode enabled.

View: All

Create New View

ABCDE





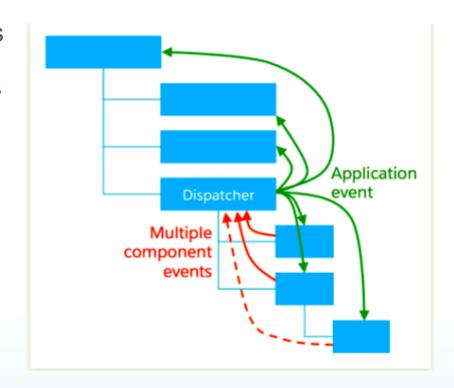
#5 - Limit Use of Application Events



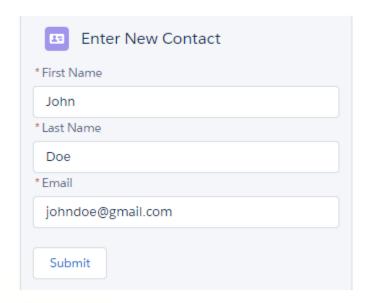
Consider using Component Events before Application events

Learn more about Inter-Component Communication Patterns

https://sforce.co/2nYO1pK



4 – Use <aura:if> for Conditional Rendering









4 – Use <aura:if> for Conditional Rendering





#3 – Use the Lightning Data Service When Possible

AKA: The Standard Controller for Lightning

Benefits include:

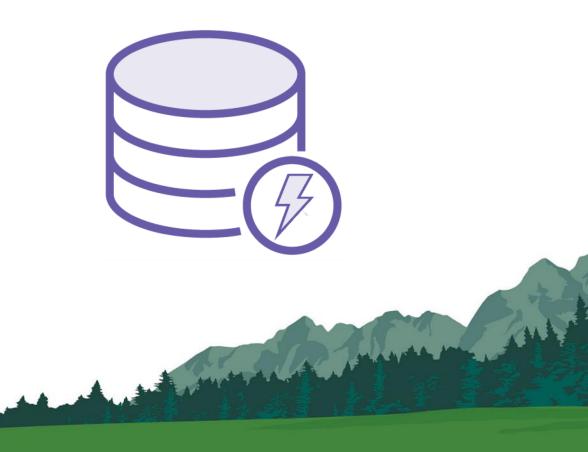
No APEX or SOQL needed

FLS and CRUD security built-in

Auto-notify on record changes

Offline access for Salesforce1

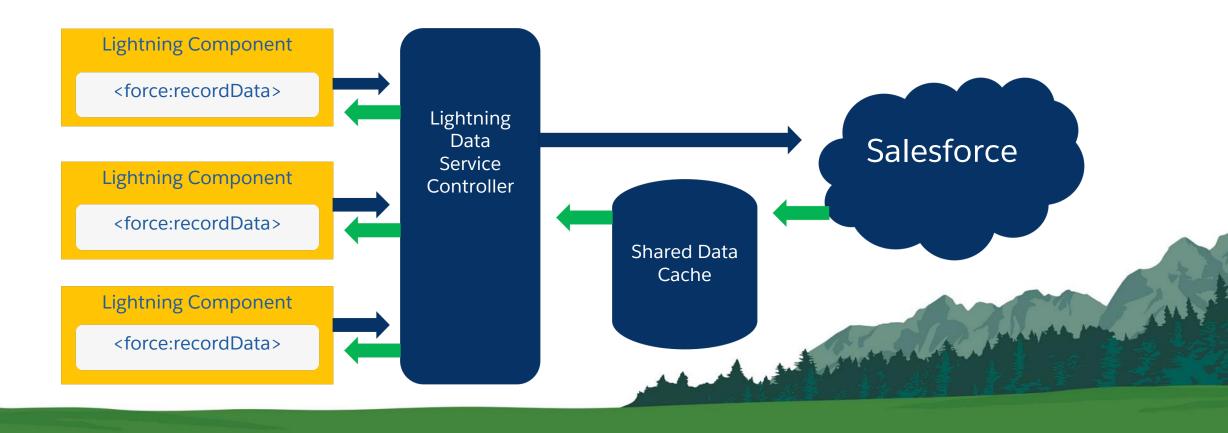
Single Request and Cached Response





#3 – Use the Lightning Data Service When Possible

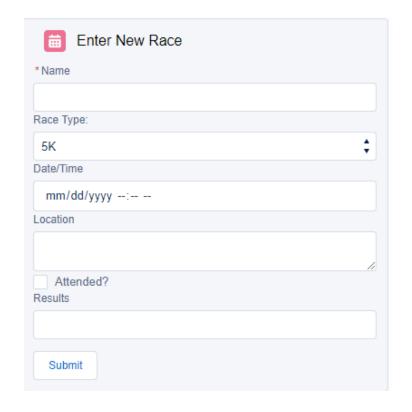
AKA: The Standard Controller for Lightning





#3 – Use the Lightning Data Service When Possible

AKA: The Standard Controller for Lightning

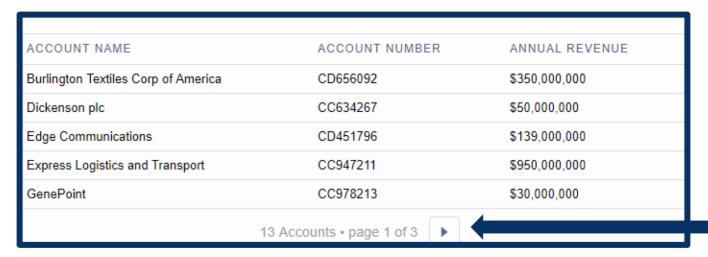


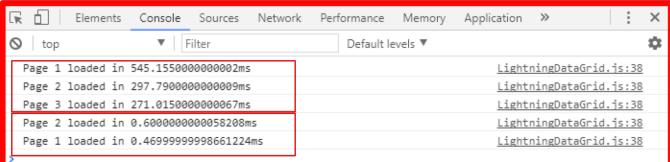
```
<force:recordData
 aura:id="raceRecordCreator"
              layoutType="FULL"
 targetRecord="{!v.newRaceRec}"
              targetFields="{!v.newRace}"
              targetError="{!v.errorMsg}"/>
```



#2 – Use Storable Actions When Possible

Caching in a Single Line of Code







#2 – Use Storable Actions When Possible

Caching in a Single Line of Code

```
var action = component.get('c.getRacesDB');
action.setStorable();
action.setCallback(this, function(response) {
          // Code here to handle the response
}
$A.enqueueAction(action);
```

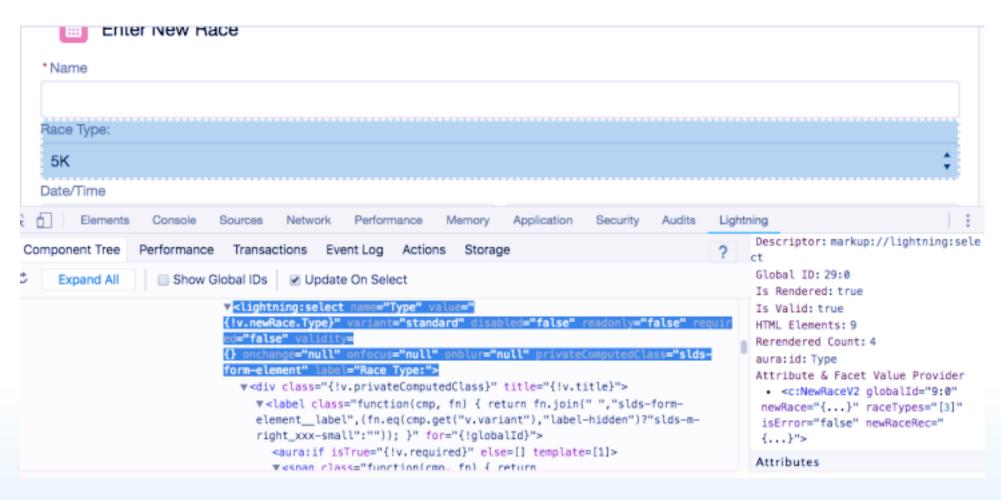
ACCOUNT NAME	ACCOUNT NUMBER	ANNUAL REVENUE
Burlington Textiles Corp of America	CD656092	\$350,000,000
Dickenson plc	CC634267	\$50,000,000
Edge Communications	CD451796	\$139,000,000
Express Logistics and Transport	CC947211	\$950,000,000
GenePoint	CC978213	\$30,000,000
	13 Accounts • page 1 of 3	



Race Tracker Version 2	
Enter New Race	
*Name	
Race Type:	
5K	:
Date/Time	
Location	
Attended?	
Elements Console Sources Network Performance Memory Application Security Audits Lightning	1
Component Tree Performance Transactions Event Log Actions Storage	Descriptor: markup://aurashtml Global ID: 268:99;m
C Expand All Show Global IDs Update On Select	Is Rendered: true
<pre>v-auracif isTrue="function(cmp, fm) { return (cmp.get("v.page")=cmp.get("v.pages")); }" else=[] template= iii]= v-lightning:buttenIcan onfocus="mull" omblur="null" icon#ame="utility:right" variant="border" size="medi un" disabled="false" onclick="{ic.nextPage}" type="butten" privateComputedButtonClass="alde-button alde-button—icon-border" privateIconClass="alde-button_icon "> v_button</pre>	In Valid: true HTML Elements: 4 Rerendered Count: 8 aura:id: privateButton Attribute & Facet Value Provider - *lightning:buttonIcon globalId="266:99ua" onfocus="null" orblur="null" icomMane="utility:right" variant="border" size="nedium" disabled="false" onclick="mc:PaginatorScontrollerSnextPage" type="button" privateComputedButtonClass="slds-button slds-button-icon-border" privateIconClass="slds-button_icon "> Attributes
<pre>cauracif isTruen"function(cmp, fn) { return !(fn.empty(cmp.get("v.footer"))); }" slsem[] templatem[2]></pre>	body: [2]



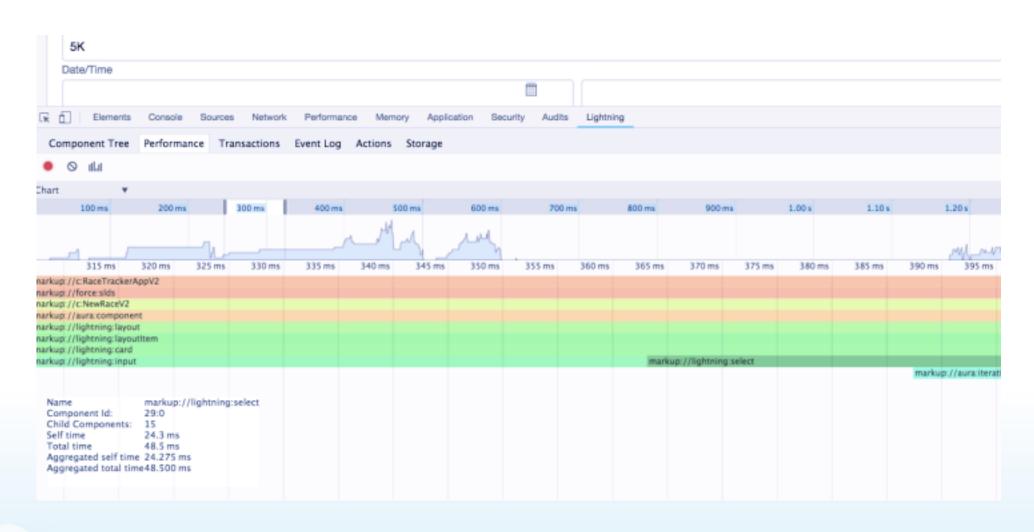
Component Tree Tab





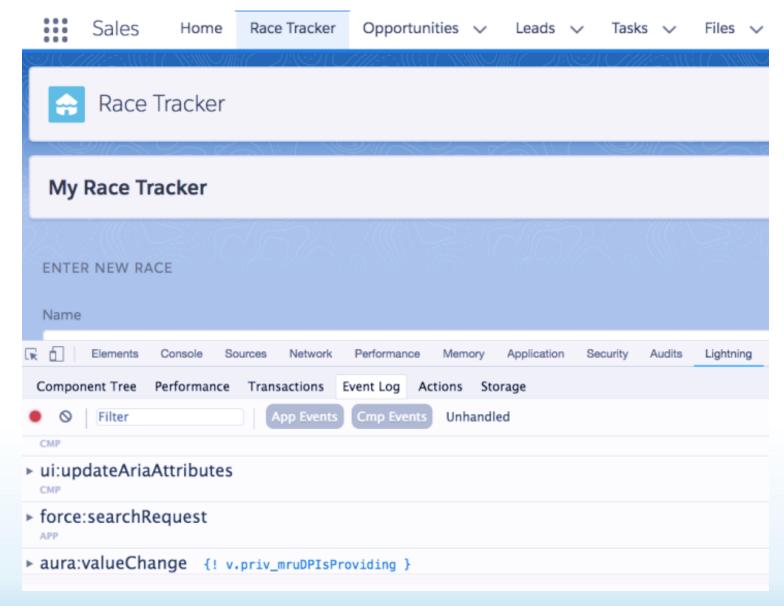


Performance Tab



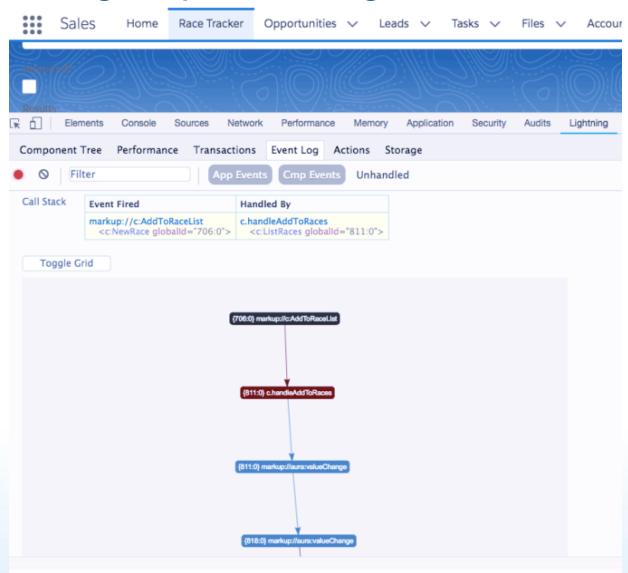
salesforce

Event Log Tab



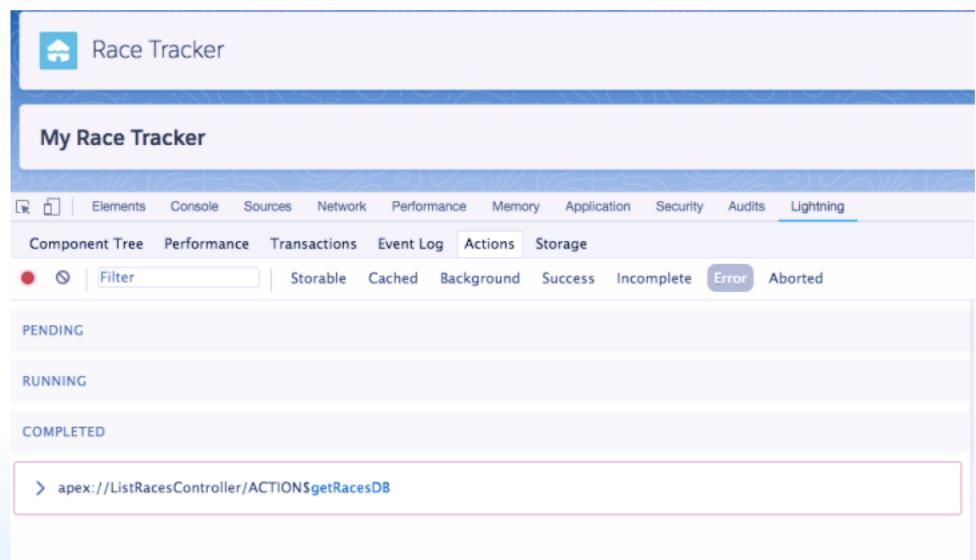
salesforce

Event Log Tab





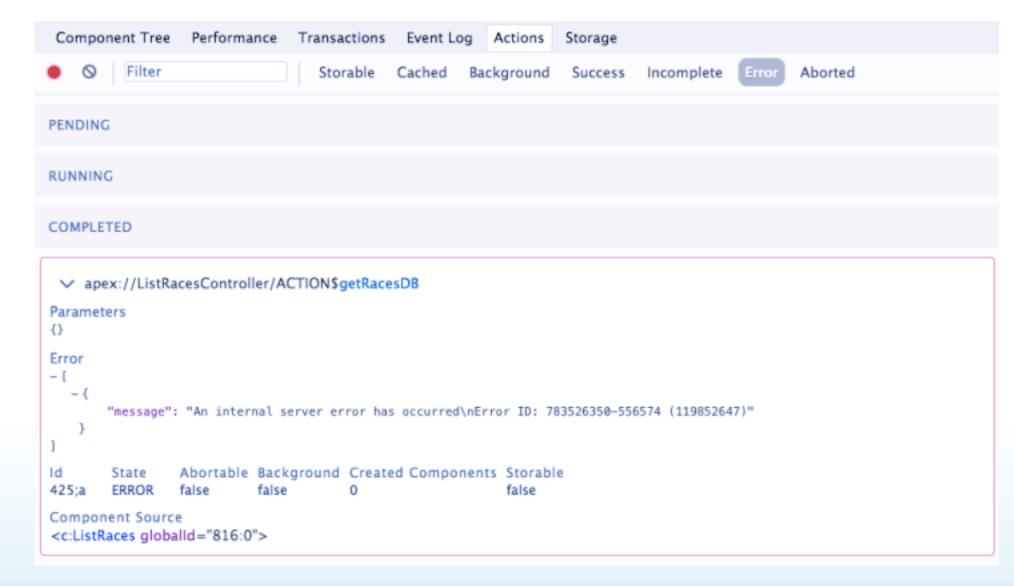
Actions Tab







Actions Tab





Demo Time







Top 6 Tips Review

```
# 6– Check Component Cache and Debug Settings
# 5 – Limit Use of Application Events
# 4 – Use <aura:if> for Conditional Rendering
# 3 – Use the Lightning Data Service Whenever Possible
# 2 –Use Storable Actions When Possible
# 1 – Learn about your app with the Lightning Inspector Plug-in
```

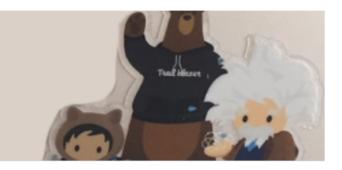
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Check Out My Blog For More Best Practices



Sara Has No Limits

Trailblazing My Way Into the Future



http://saramorgan.net

Home I

How I came to work for Salesforce...



Not to be missed Developer Content on Trailhead



Does someone mentioning Artificial Intelligence make



Check out the Salesforce API Explorer New Pluralsight Course on Lightning

<u>Lightning Component</u>

<u>Development Best</u>

<u>Practices</u>

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More Salesforce Resources

On Trailhead:

Lightning Data Service Basics

Lightning Component Core Concepts

Lightning Component Tips and Gotchas

On the Salesforce Developers Blog:

Lightning Inter-Component Communication Patterns

Lightning Components Best Practices

Caching Data with Storable Actions



