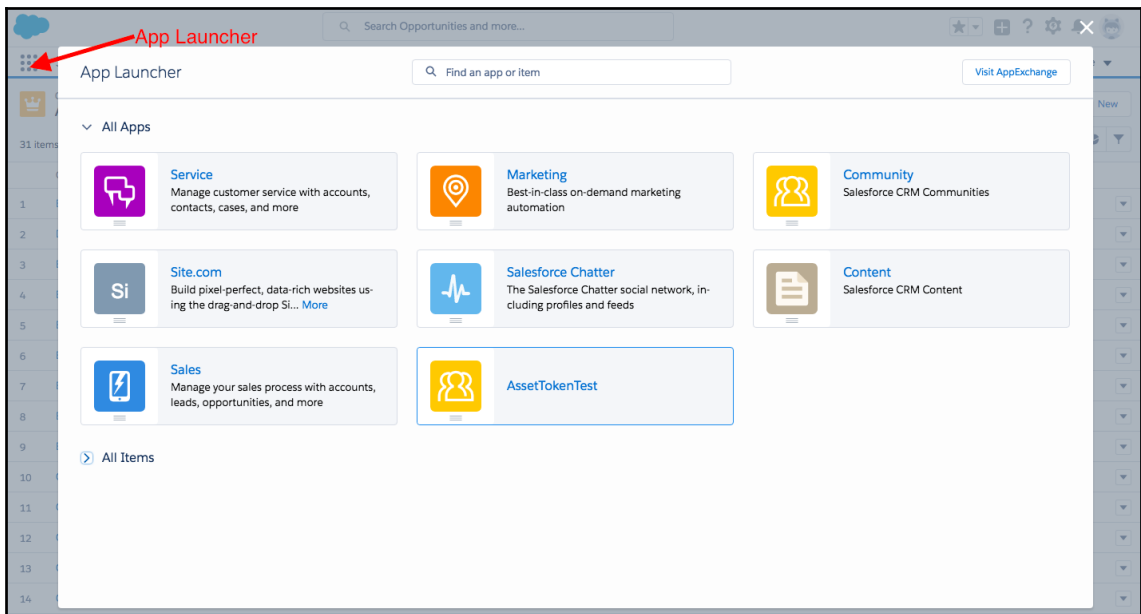
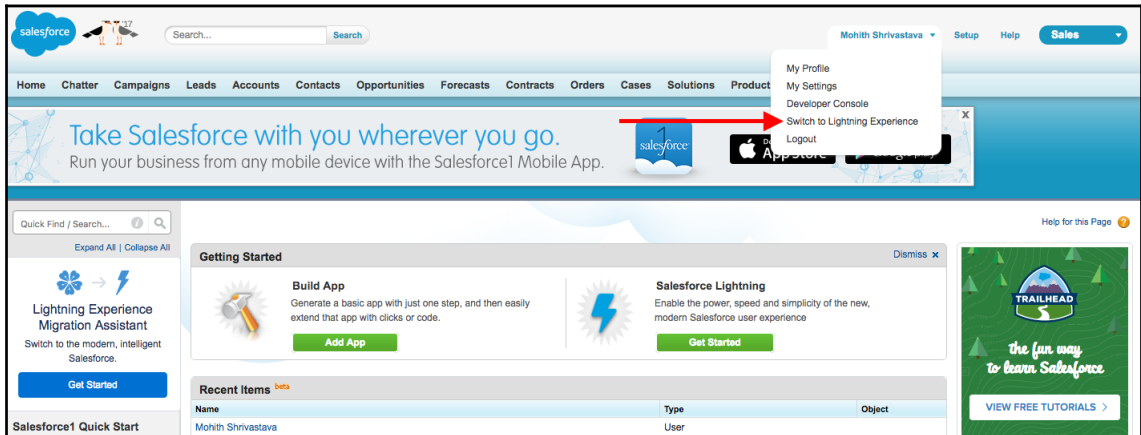
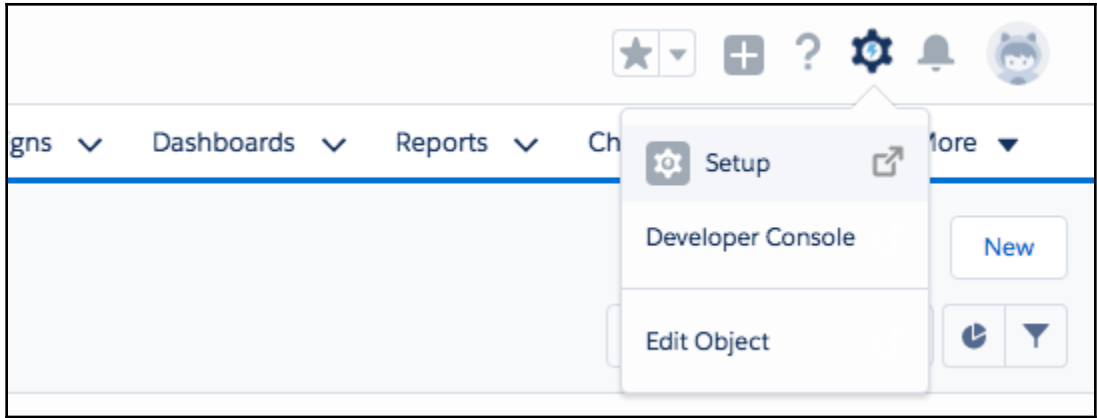


# Chapter 1: Introduction to the Lightning Component Framework





### New Lightning App

## App Details & Branding

Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.

#### App Details

• App Name ⓘ

• Developer Name ⓘ

Description ⓘ

#### App Branding

Image ⓘ

Primary Color Hex Value ⓘ

#### App Launcher Preview

SA Survey App

## New Lightning App

### Select Items

Choose the items to include in the app. You can rearrange the order in which items appear.

#### Available Items

Search: Type to filter list...

- App Launcher
- Assets
- Campaigns
- Contacts
- Contracts
- Dashboards
- Files
- Forecasts

#### Selected Items

- Accounts
- Approval Requests
- Calendar
- Cases
- Chatter

Progress indicator with 5 steps, the 4th step is active. [Next](#)

### New Lightning App

Choose the user profiles that can access this app.

#### Available Profiles

- Authenticated Website
- Custom: Support Profile
- Customer Community Login User
- Customer Community Plus Login User
- Customer Community Plus User
- Customer Community User
- Customer Portal Manager Custom
- Customer Portal Manager Standard
- External Identity User
- Force.com - App Subscription User

#### Selected Profiles

- Custom: Marketing Profile
- Contract Manager
- Custom: Sales Profile

Progress: 1/4 steps completed

[Save & Finish](#)

Search Salesforce

Setup Home Object Manager

Search: Tabs

### Custom Tabs

You can create new custom tabs to extend Salesforce functionality or to build new application functionality.

Custom Object Tabs [New](#) [What is This?](#)  
No Custom Object Tabs have been defined.

Web Tabs [New](#) [What is This?](#)  
No Web Tabs have been defined.

Visualforce Tabs [New](#) [What is This?](#)  
No Visualforce Tabs have been defined.

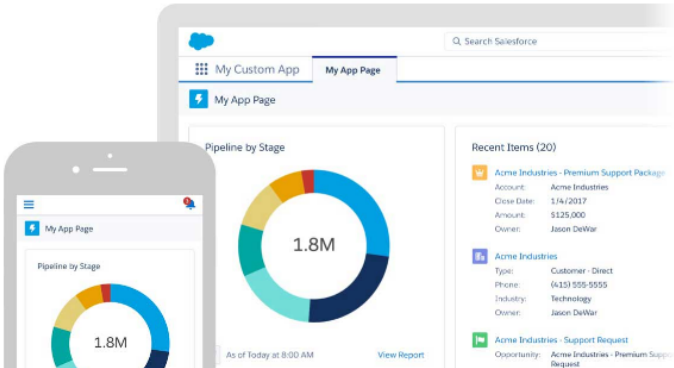
Lightning Component Tabs [New](#) [What is This?](#)  
No Lightning component tabs have been defined.

Lightning Page Tabs [New](#) [What is This?](#)  
No Lightning Page Tabs have been defined.

# Create a New Lightning Page

- App Page
- Home Page
- Record Page

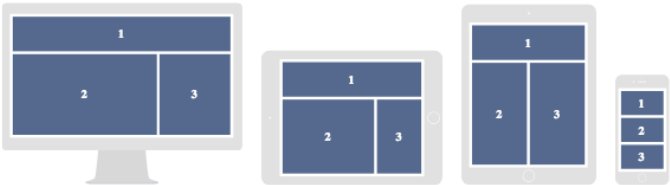
Build a one-page app for Lightning Experience and Salesforce1.



Next

# Create a New Lightning Page

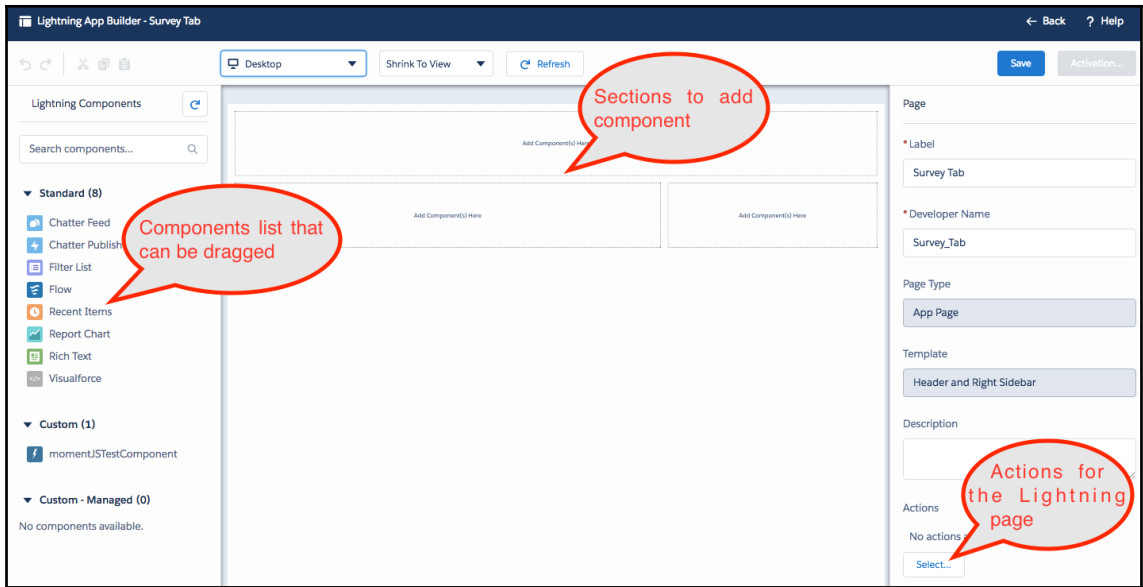
- Header and Right Sidebar
- Header and Left Sidebar
- Header and Three Columns
- Header and Two Columns
- Main Column and Right Sidebar
- Three Columns
- Two Columns
- One Column

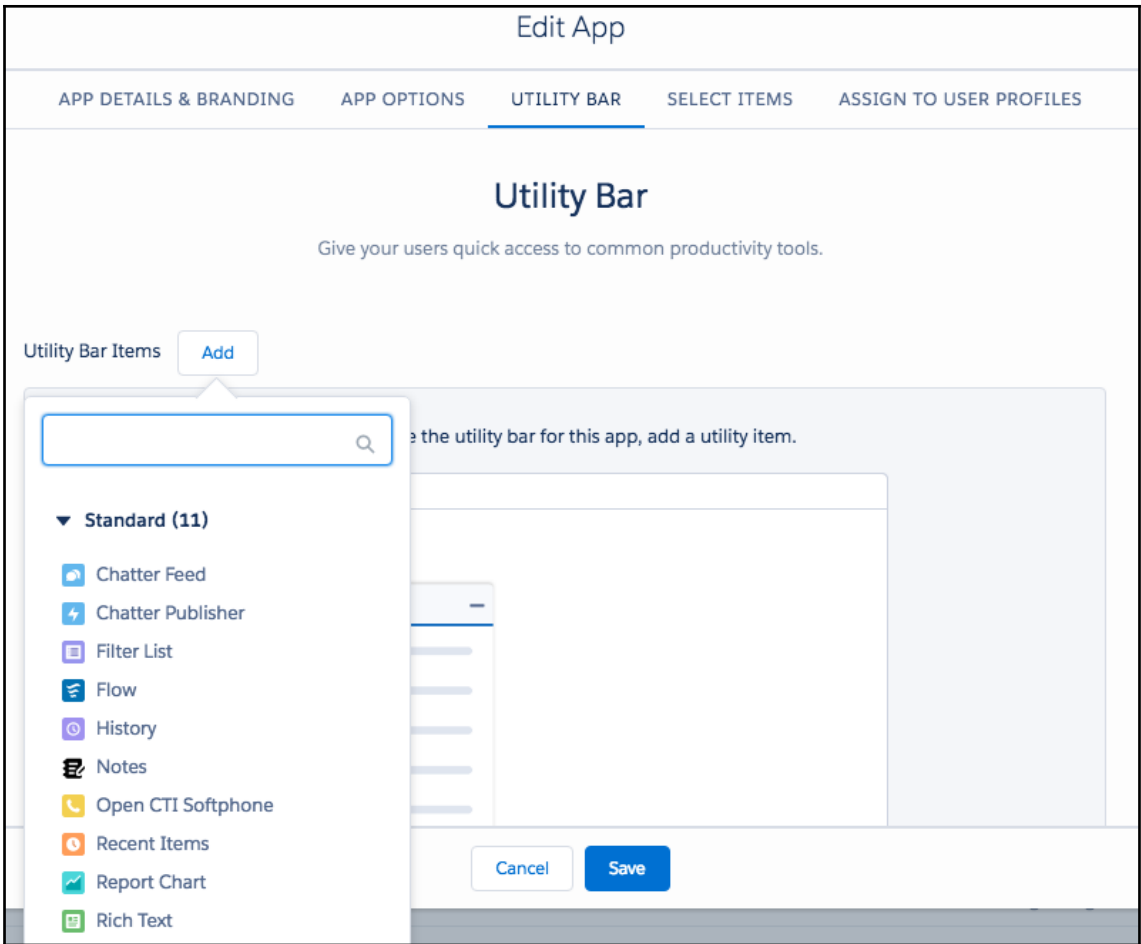


A full-width header above a main column and right sidebar, on both desktop and tablet in landscape orientation. On a tablet in portrait orientation, the columns below the header are equal width. On a phone, the regions stack vertically.

Back

Finish






---

The screenshot shows a mobile application interface. At the top, there is a header with a checkbox and the text "NAME ↑". Below this, there is a list of items:

- 1  Andy Young
- 2  Arthur Song

A modal window titled "Recent Items" is open, displaying a list of items. The first item, "Recent Items (1)", is highlighted with a blue box. Below this, there is a detailed view for "Burlington Textiles Corp of America" with the following information:

	<b>Burlington Textiles Corp of America</b>
Type	Customer - Direct
Phone	(336) 222-7000
Website	www.burlington.com
Account O...	Mohith Shrivastava
Account Site	
Industry	Apparel

At the bottom of the modal, there is a footer with a lightning bolt icon and the text "Recent Items".



Sales Home Opportunities Leads Tasks Files Accounts Contacts Campaigns Dashboards Reports Chatter Groups Calendar More

OPPORTUNITIES All Opportunities New

31 items - Sorted by Opportunity Name - Updated a few seconds ago

	OPPORTUNITY NAME ↑	ACCOUNT NAME	AMOUNT	CLOSE DATE	STAGE		OPPORTUNITY OWNER ALIAS
1	Burlington Textiles Weaving ...	Burlington Textiles Corp of A...	\$235,000.00	5/6/2015	Closed Won		
2	Dickenson Mobile Generators	Dickenson plc	\$15,000.00	5/6/2015	Qualification		
3	Edge Emergency Generator	Edge Communications	\$75,000.00	5/6/2015	Closed Won		
4	Edge Emergency Generator	Edge Communications	\$35,000.00	5/6/2015	Closed Won		
5	Edge Installation	Edge Communications	\$50,000.00	5/6/2015	Closed Won		
6	Edge SLA	Edge Communications	\$60,000.00	5/6/2015	Closed Won		MShri
7	Express Logistics Portable Tr...	Express Logistics and Transp...	\$80,000.00	5/6/2015	Value Proposition		MShri
8	Express Logistics SLA	Express Logistics and Transp...	\$120,000.00	5/6/2015	Perception Analysis		MShri
9	Express Logistics Standby Ge...	Express Logistics and Transp...	\$220,000.00	5/6/2015	Closed Won		MShri
10	GenePoint Lab Generators	GenePoint	\$60,000.00	5/6/2015	Id. Decision Makers		MShri
11	GenePoint SLA	GenePoint	\$30,000.00	5/6/2015	Closed Won		MShri
12	GenePoint Standby Generator	GenePoint	\$85,000.00	5/6/2015	Closed Won		MShri
13	Grand Hotels Emergency Ge...	Grand Hotels & Resorts Ltd	\$210,000.00	5/6/2015	Closed Won		MShri
14	Grand Hotels Generator Inst...	Grand Hotels & Resorts Ltd	\$350,000.00	5/6/2015	Closed Won		MShri

Annotations: Kanban View Switch, Inline Edit, Create New List Views, Chart, Add Filters

Setup Home Object Manager Search Salesforce

SETUP > OBJECT MANAGER Account

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Object Limits

Record Types

Related Lookup Filters

Search Layouts

Triggers

Validation Rules

Hierarchy Columns

Override Standard Button or Link New Help for this Page

Overriding standard buttons and links changes the meaning of the salesforce.com URL and any calls to that URL such as a salesforce.com page, a browser shortcut, or an external system. You can replace the salesforce.com URL for a standard button or link with a custom s-control, Visualforce Page or Lightning component.

Select the custom s-control, Visualforce Page or Lightning component to use in place of the salesforce.com URL for this standard button or link.

**Override Properties** Save Cancel

Label: New  
 Name: New  
 Default: Standard Salesforce.com Page

Override With:  No Override (use default)  Lightning Component Bundle (c:OverrideNewAccount)  Visualforce Page (None)

Comment:


Save Cancel

Search Events and more...

Sales Home Opportunities Leads Tasks Files Accounts Contacts Campaigns Dashboards Reports Chatter Groups Calendar More

CALENDAR August 6, 2017-August 12, 2017 Today New Event

GMT -7	SUN 6	MON 7	TUE 8	WED 9	THU 10	FRI 11	SAT 12
3pm							
4pm							
5pm							
6pm							
7pm							
8pm							

My Calendars 

Salesforce Events

Create a New Calendar for a standard/Custom Object

Search Salesforce

Setup Home Object Manager

Quick Find

Setup Home  
Lightning Experience

ADMINISTRATION

- > Users
- > Data
- > Email

PLATFORM TOOLS

- > Apps
- > Feature Settings
- > Objects and Fields
- > Process Automation
- ▼ User Interface
  - Action Link Templates
  - App Menu
  - Custom Labels
  - ▼ Global Actions
    - Global Actions

SETUP Global Actions

### Global Actions New Action

**Enter Action Information** Save Cancel

Action Type Lightning Component ⓘ

Lightning Component c:OverrideNewAccount ⓘ

Height 250px ⓘ

Standard Label Type --None-- ⓘ

Label Take Survey

Name Take\_Survey ⓘ

Description ⓘ

Icon ⚡ [Change Icon](#)

Save Cancel

Search Salesforce

Setup Home Object Manager

Quick Find

Setup Home  
Lightning Experience

ADMINISTRATION

- > Users
- > Data
- > Email

PLATFORM TOOLS

- > Apps
- > Feature Settings
- > Objects and Fields
- > Process Automation
- ▼ User Interface
  - Action Link Templates
  - App Menu
  - Custom Labels
  - ▼ Global Actions
    - Global Actions

SETUP Global Actions

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**Enter Action Information** Save Cancel

Action Type Lightning Component ⓘ

Lightning Component c:OverrideNewAccount ⓘ

Height 250px ⓘ

Standard Label Type --None-- ⓘ

Label Take Survey

Name Take\_Survey ⓘ

Description ⓘ

Icon ⚡ [Change Icon](#)

Save Cancel

Search Salesforce

Setup Home Object Manager

SETUP > OBJECT MANAGER  
Account

Details  
Fields & Relationships  
Page Layouts  
Lightning Record Pages  
**Buttons, Links, and Actions**  
Compact Layouts  
Object Limits  
Record Types  
Related Lookup Filters  
Search Layouts  
Triggers  
Validation Rules  
Hierarchy Columns

Account Actions  
**New Action**

**Enter Action Information** Save Cancel

Object Name Account

Action Type Lightning Component

Lightning Component c:OverrideNewAccount

Height 250px

Standard Label Type --None--

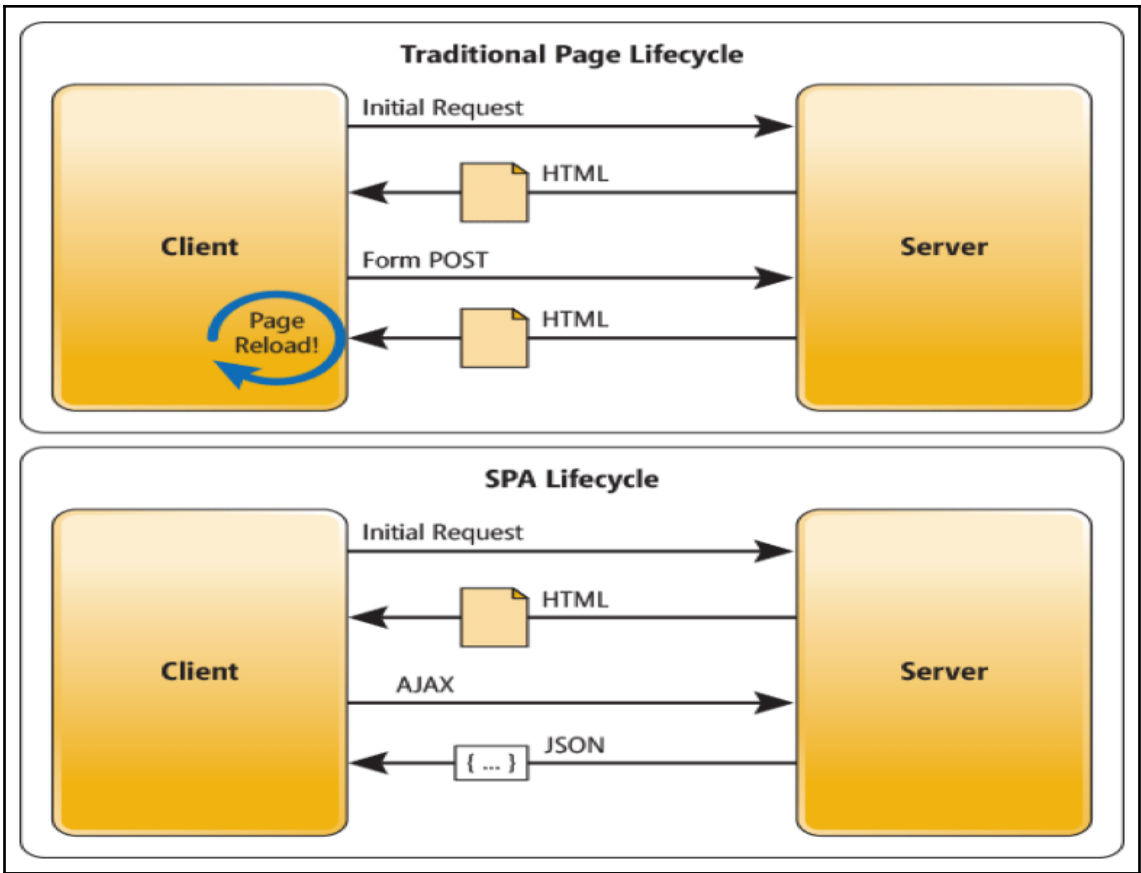
Label Survey

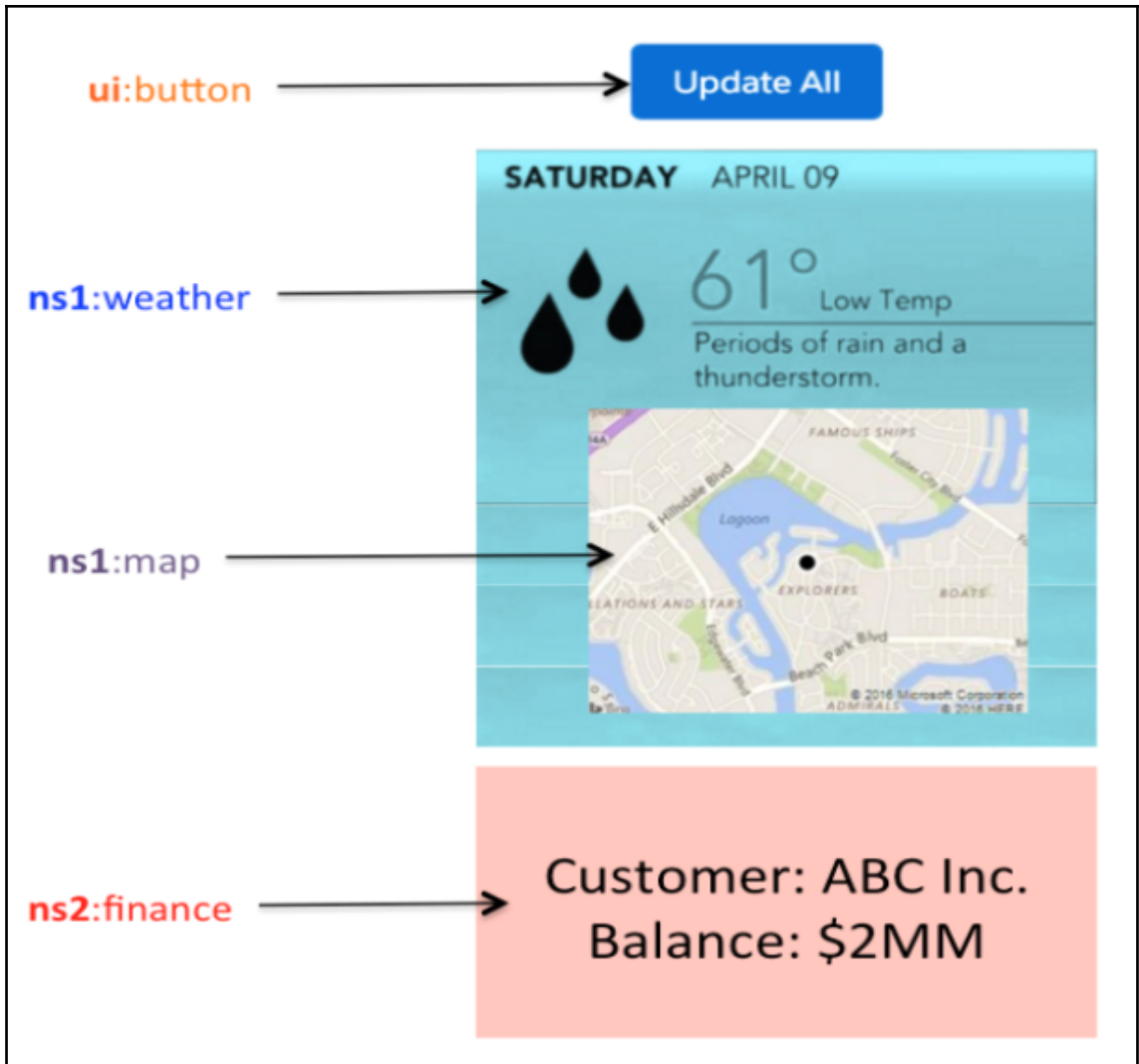
Name Survey

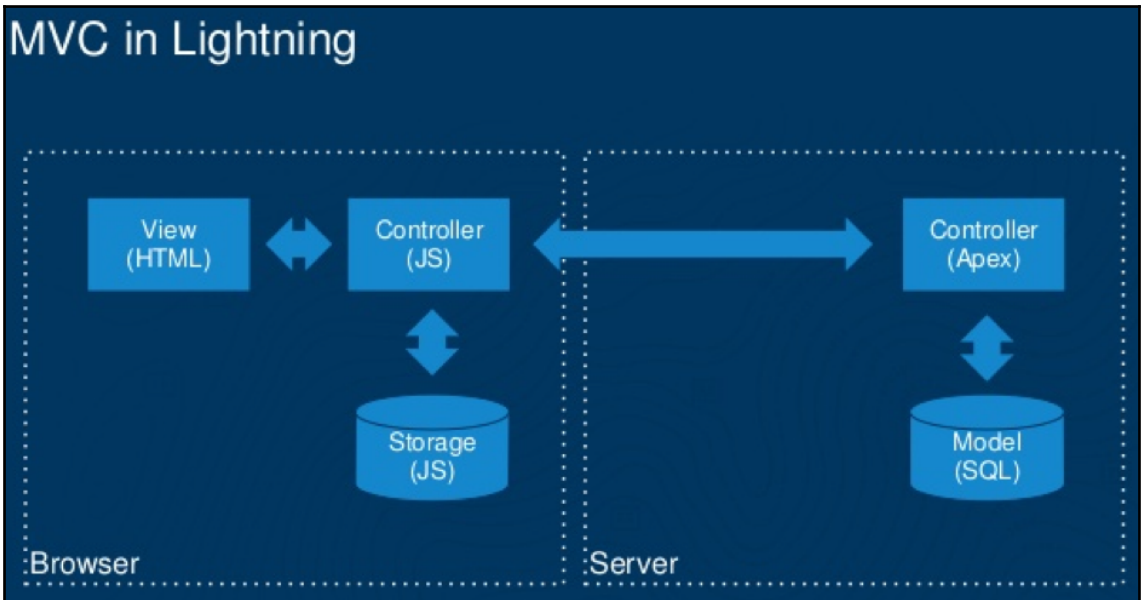
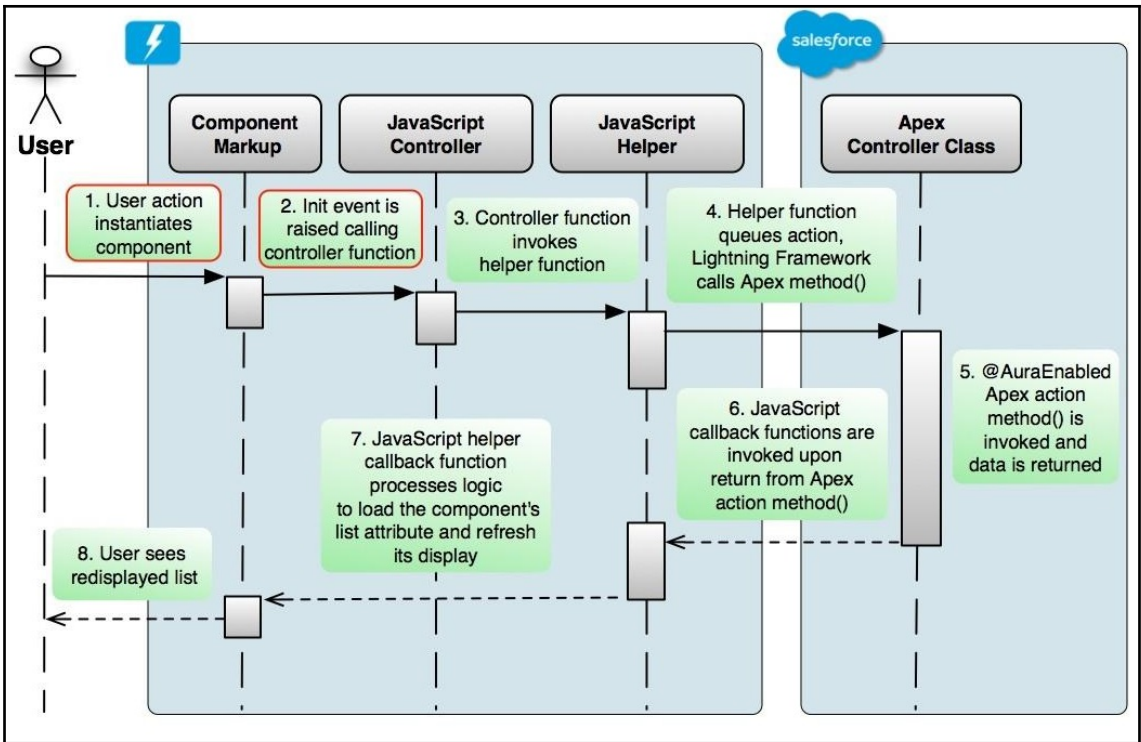
Description

Icon [Change Icon](#)

Save Cancel









0.79 s 2027.45 KB

Setup Home Object Manager

My Domain

My Domain

My Domain Step 4

Showcase your company's brand and keep your data more secure by adding a custom domain name to your Salesforce URL. Because having a custom domain is more secure, some Salesforce features require it. It's easy to set up My Domain—the hardest part is choosing a name that your stakeholders can agree on.

Step 4 Domain Deployed to Users

Choose Domain Name → Domain Registration Pending → Domain Ready for Testing → Domain Deployed to Users

Edit My Domain Settings

Your domain name is `newdev-dev-ed.my.salesforce.com`

1.22 s 1139.35 KB

Setup Home Object Manager

Session Settings

DESPIKE THE SALESFORCE RECOMMENDATION AGAINST IT, YOU HAVE DETERMINED IN YOUR SOLE DISCRETION TO CONTINUE USING LIGHTNING EXPERIENCE WITH IE11 DURING THE EXTENDED PERIOD. THEREFORE, YOU AGREE THAT SALESFORCE AND ITS AFFILIATES SHALL HAVE NO LIABILITY WHATSOEVER, WHETHER AN ACTION IS IN CONTRACT OR TORT AND REGARDLESS OF THE THEORY OF LIABILITY, IN CONNECTION WITH DAMAGES ARISING OUT OF YOUR CONTINUED USE OF LIGHTNING EXPERIENCE WITH IE11 DURING THE EXTENDED PERIOD. UPON EXPIRATION OF THE EXTENDED PERIOD, YOU WILL NO LONGER HAVE ACCESS TO, AND SALESFORCE WILL NO LONGER PROVIDE SUPPORT FOR, LIGHTNING EXPERIENCE WITH IE11. THESE SUPPLEMENTAL ORDER FORM TERMS FORM A LEGALLY BINDING PART OF THE ORDER FORM UNDER WHICH YOU ORDERED THE APPLICABLE SERVICES.

I AGREE, Use IE11 with Lightning Experience during the Extended Period

**Caching**

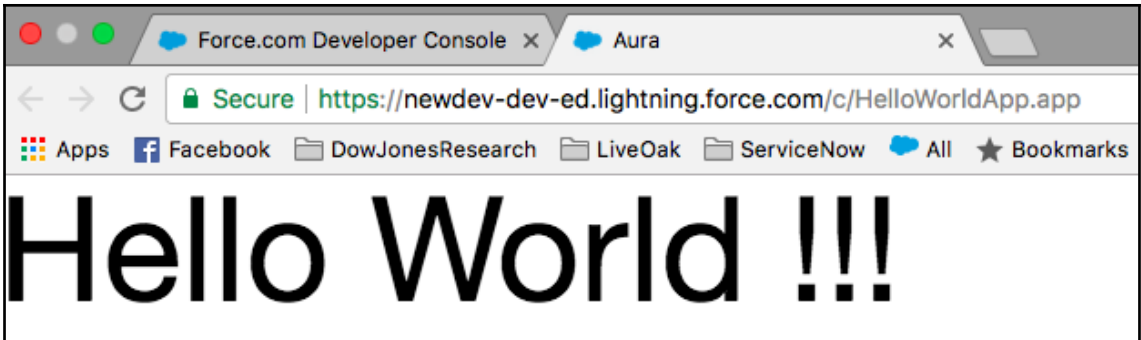
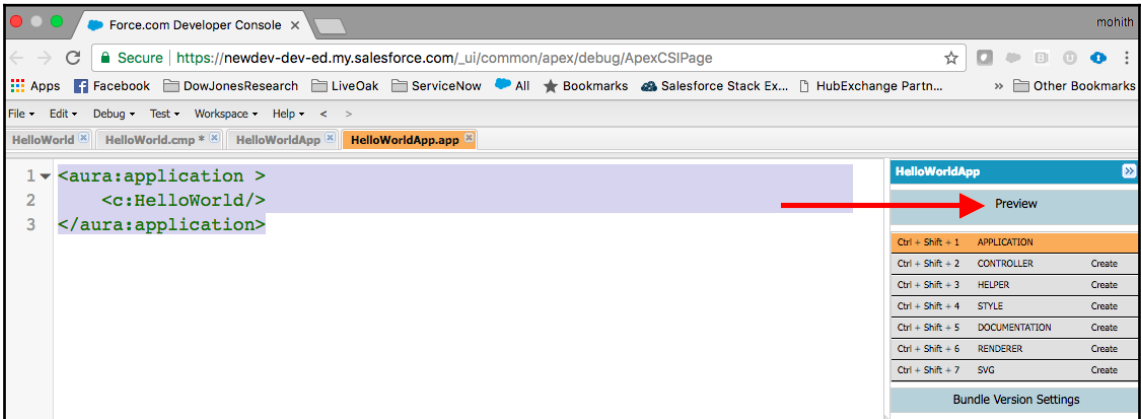
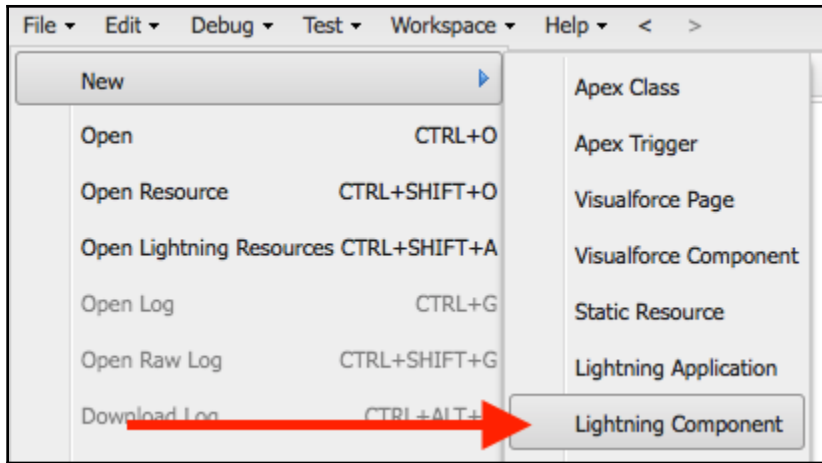
- Enable caching and autocomplete on login page
- Enable secure and persistent browser caching to improve performance
- Enable user switching
- Remember me until logout

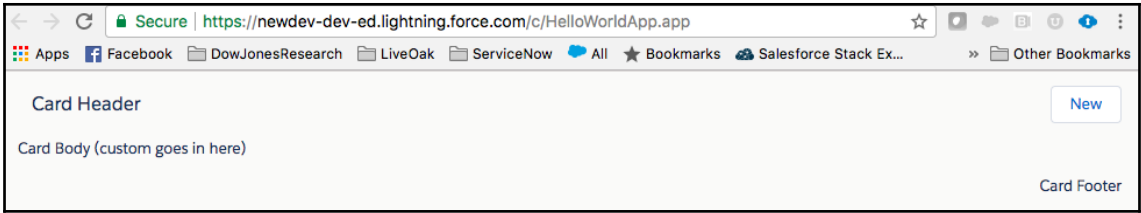
**Identity Verification**

- Enable the SMS method of identity verification
- Require security tokens for API logins from callouts (API version 31.0 and earlier)
- Let users use a security key (U2F)
- Require identity verification during two-factor authentication registration
- Require identity verification for change of email address
- Allow location-based automated verifications with Salesforce Authenticator
  - Allow only from trusted IP addresses

**Lightning Login**

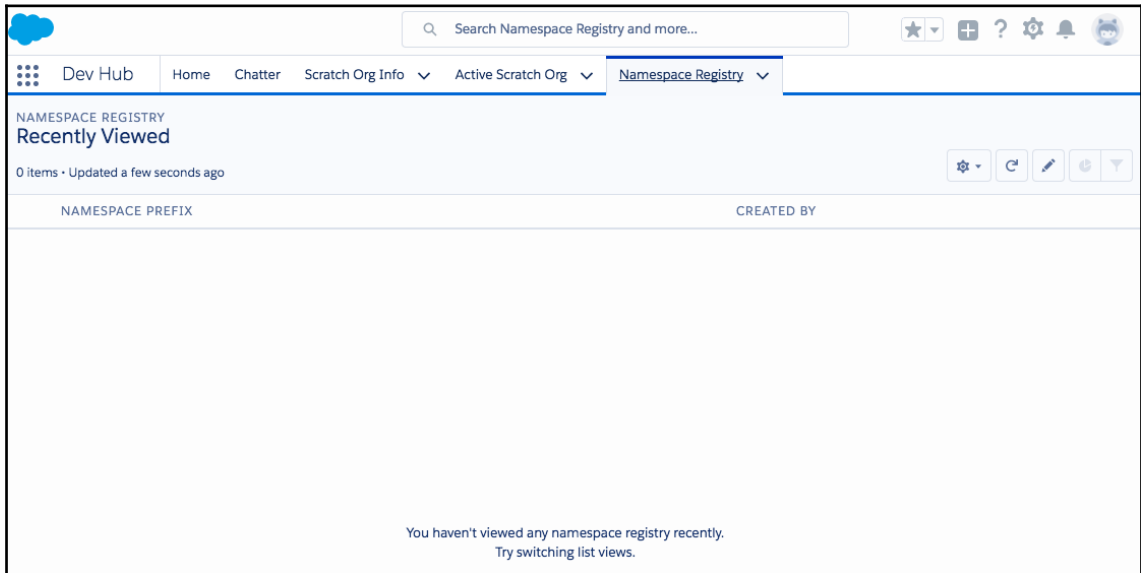
- Allow Lightning Login
  - Allow only for users with the Lightning Login User permission





---

## Chapter 2: Exploring Salesforce DX



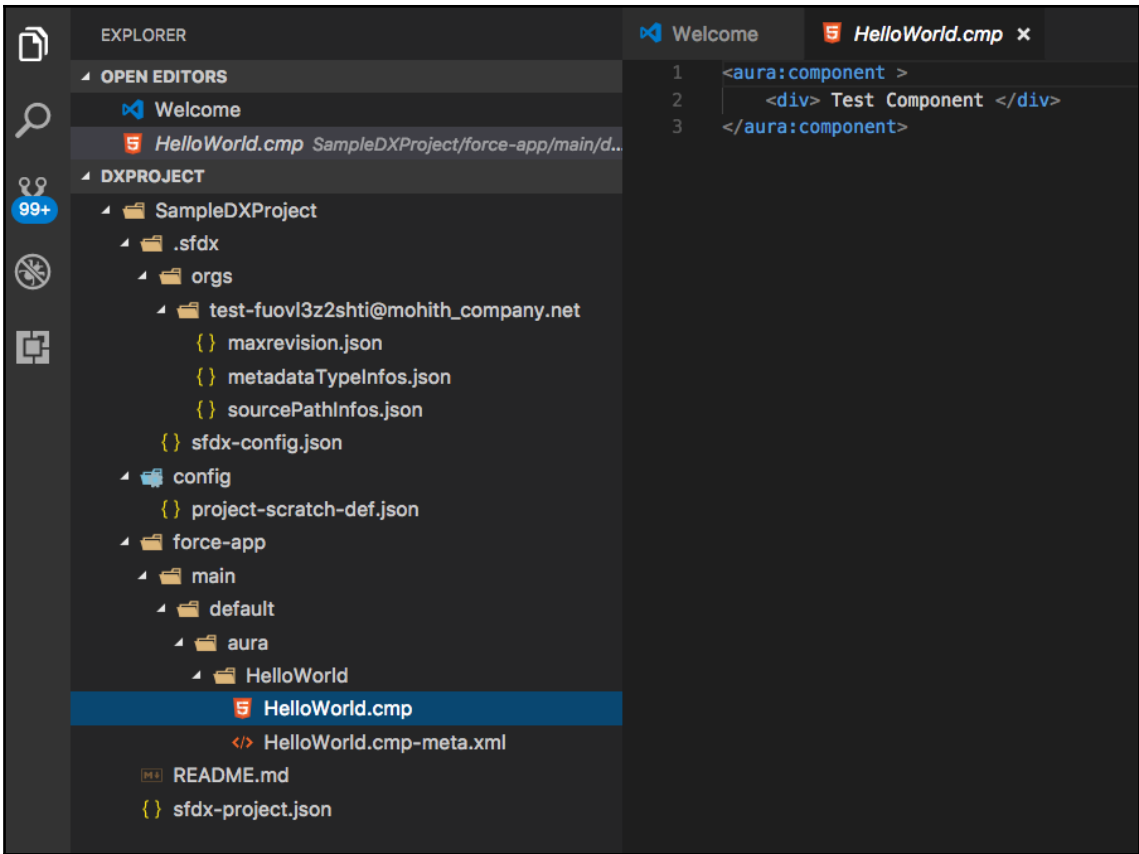
```
Mohiths-MacBook-Air:Desktop mohith$ sfdx
Usage: sfdx COMMAND [command-specific-options]

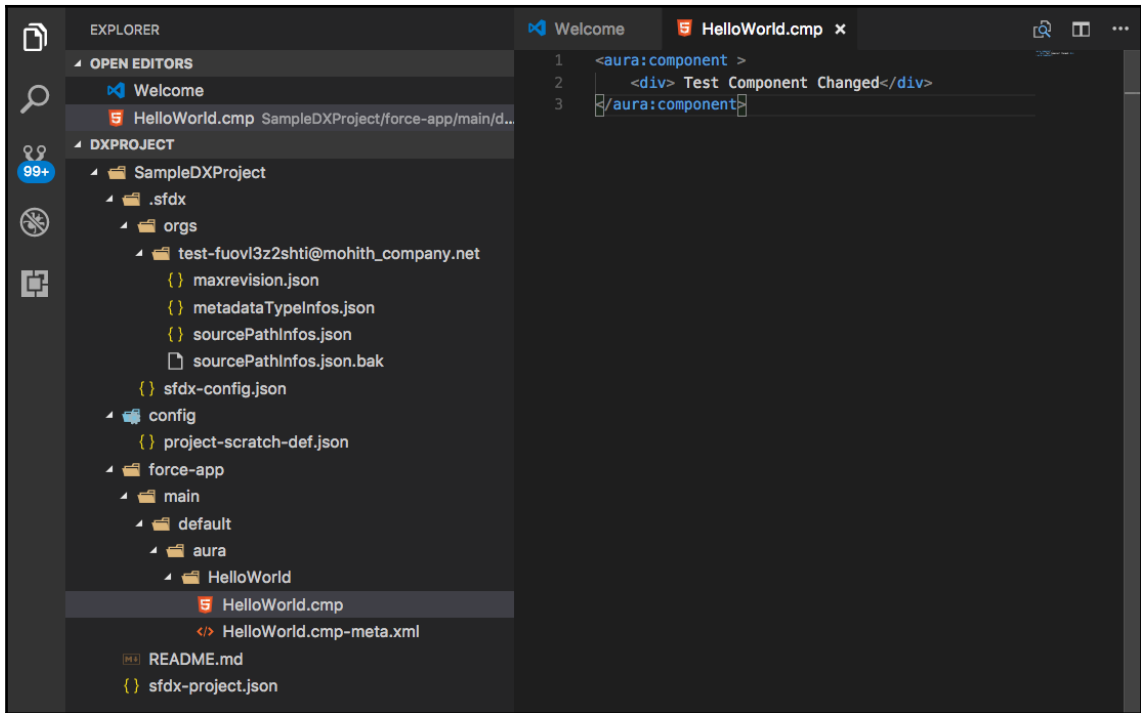
Help topics, type "sfdx help TOPIC" for more details:

  sfdx force    # tools for the salesforce developer
  sfdx plugins  # manage plugins
  sfdx update   # update sfdx-cli

Mohiths-MacBook-Air:Desktop mohith$
```

```
Mohiths-MacBook-Air:DXProject mohith$ sfdx force:auth:web:login -r https://login.salesforce.com
Successfully authorized mohith+devhub@codescience.com with org id 00D1I00000nmA2UAI
You may now close the browser
Mohiths-MacBook-Air:DXProject mohith$
```

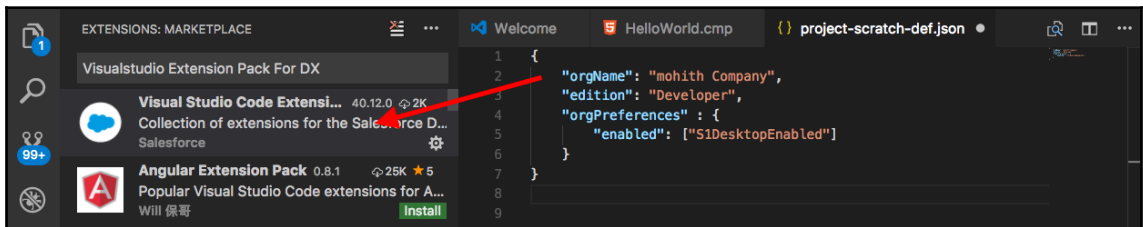
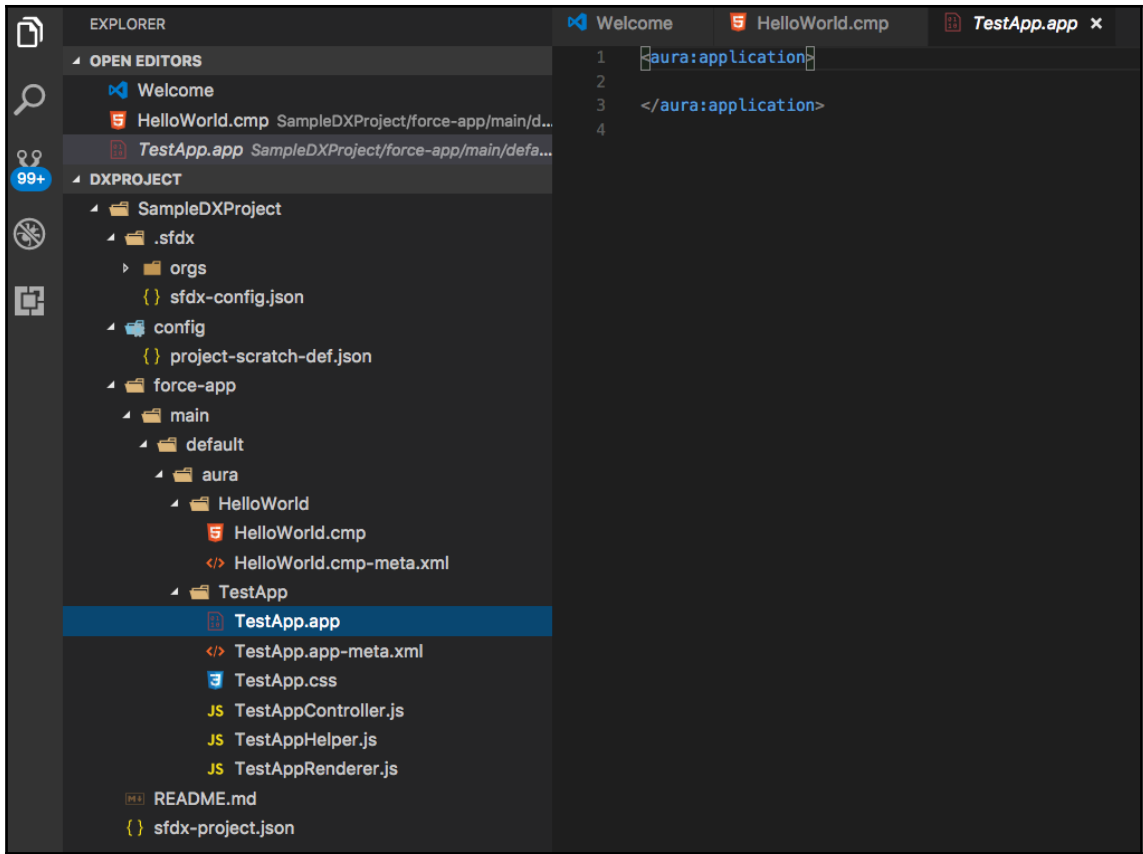


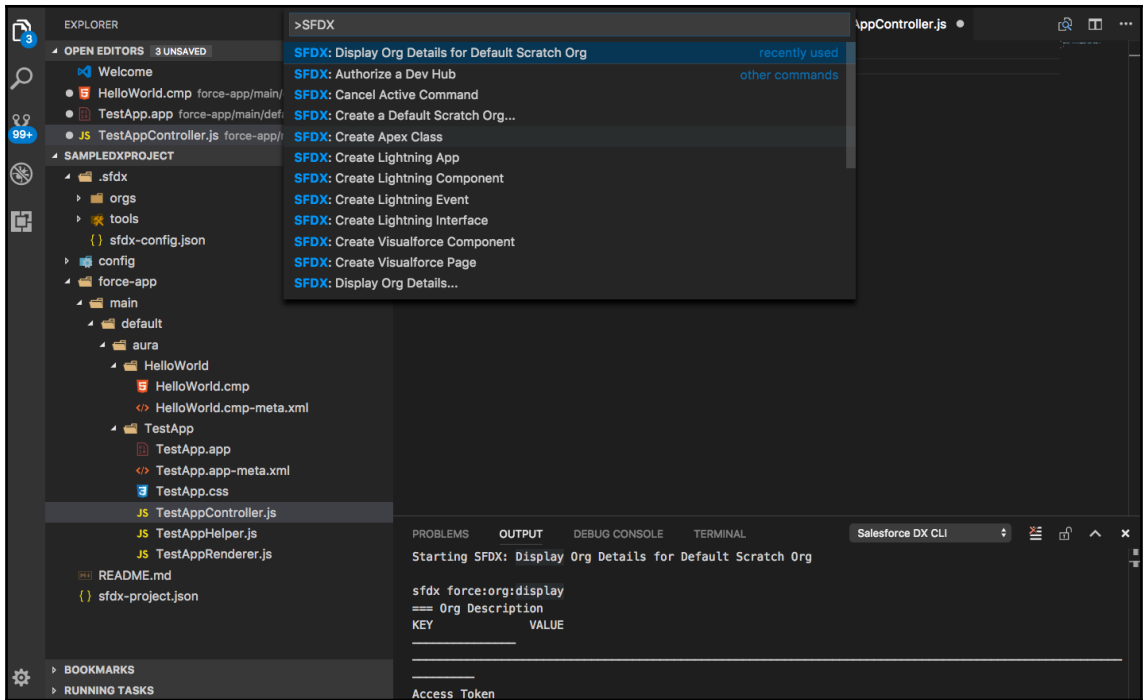


```

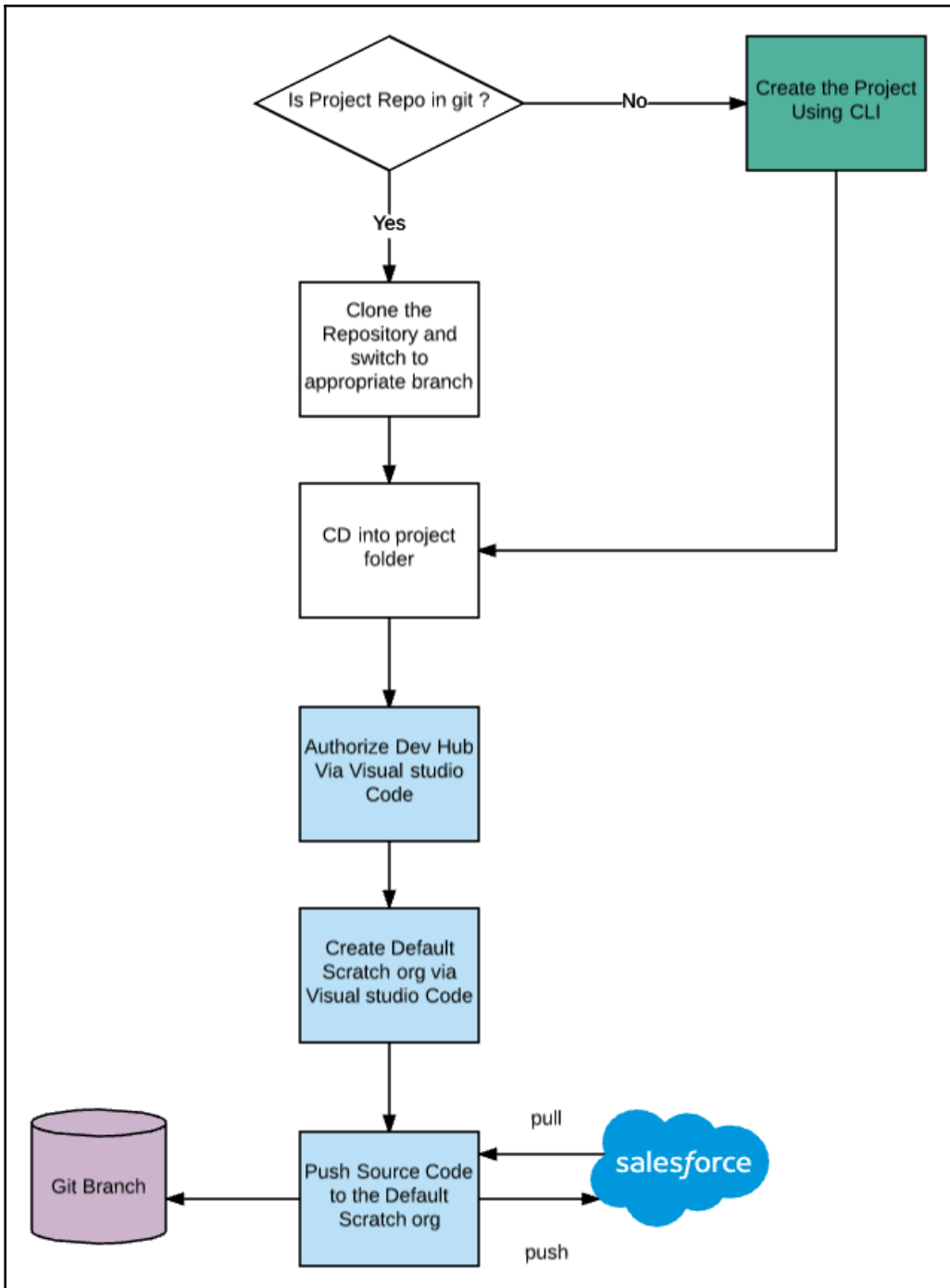
Mohiths-MacBook-Air:config mohith$ sfdx force:source:status
STATE          FULL NAME          TYPE          PROJECT PATH
-----
Local Changed  HelloWorld/HelloWorld.cmp  AuraDefinitionBundle  force-app/main/default/aura/HelloWorld/HelloWorld.cmp-meta.xml
Local Changed  HelloWorld/HelloWorld.cmp  AuraDefinitionBundle  force-app/main/default/aura/HelloWorld/HelloWorld.cmp
Mohiths-MacBook-Air:config mohith$ sfdx force:source:push
STATE          FULL NAME          TYPE          PROJECT PATH
-----
Changed       HelloWorld         AuraDefinitionBundle  force-app/main/default/aura/HelloWorld

```





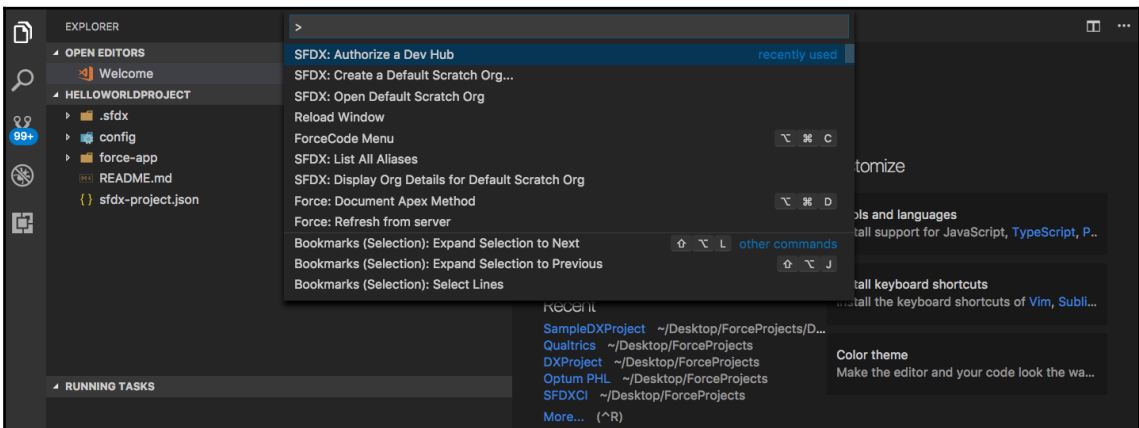


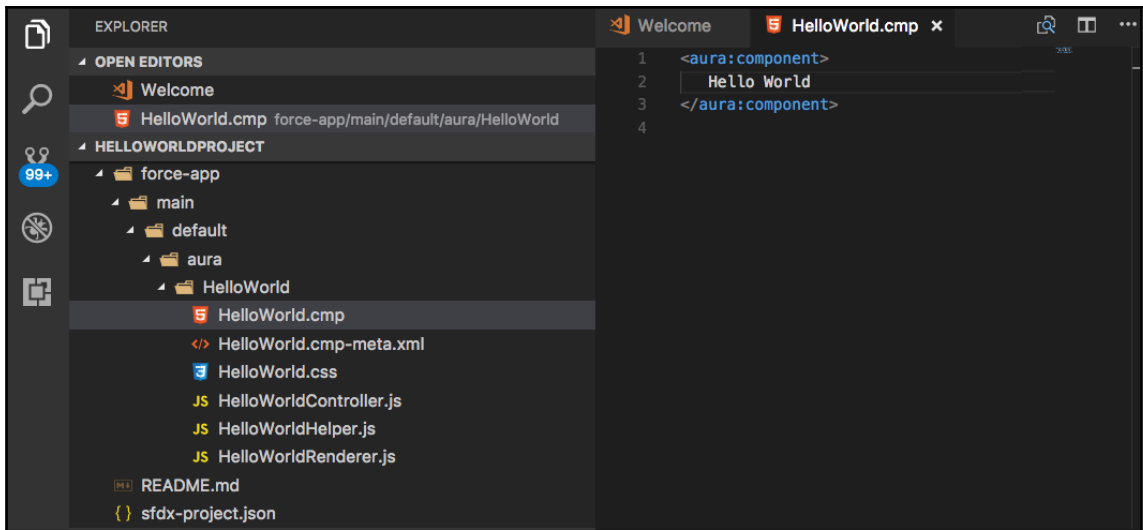
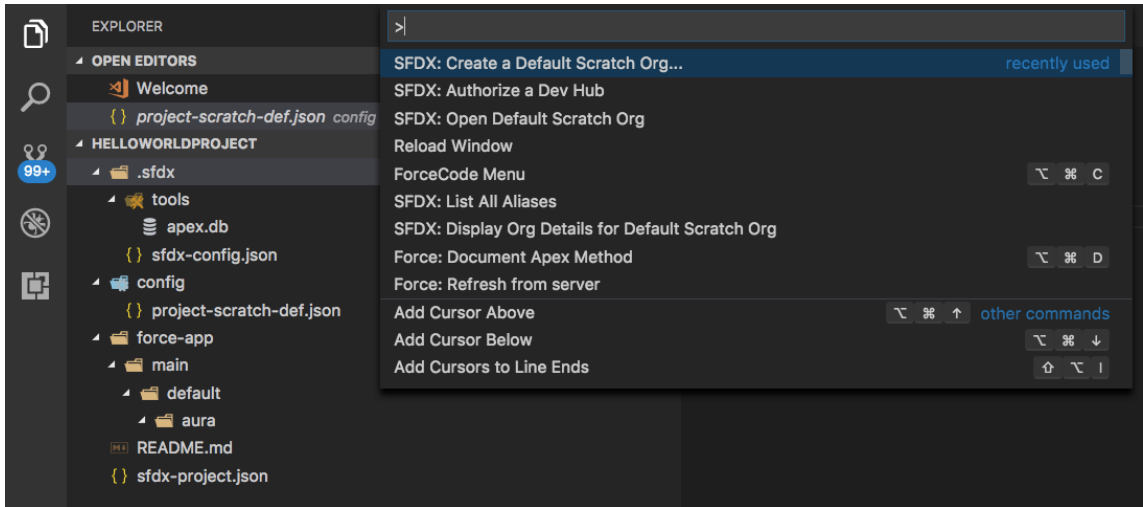


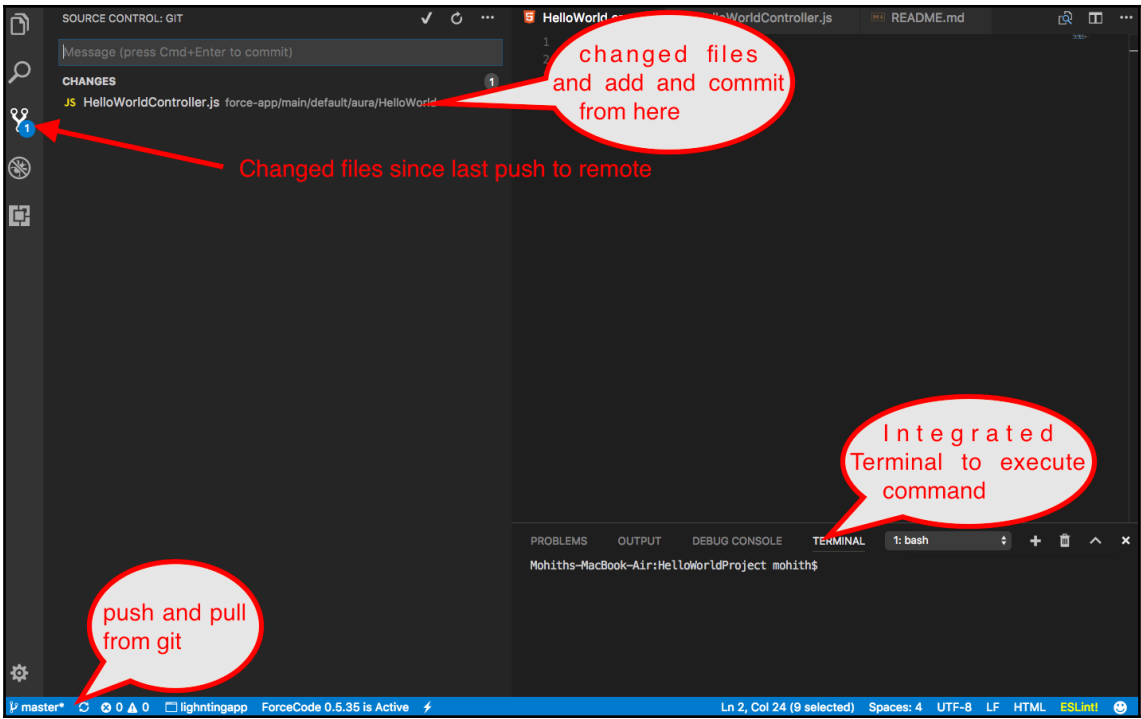
```

Mohiths-MacBook-Air:ForceProjects mohith$ sfdx force:project:create -n HelloWorldProject
target dir = /Users/mohith/Desktop/ForceProjects
create HelloWorldProject/sfdx-project.json
create HelloWorldProject/README.md
create HelloWorldProject/config/project-scratch-def.json
  
```

Name	Date Modified	Size	Kind
config	Today, 12:39 AM	--	Folder
project-scratch-def.json	Today, 12:39 AM	136 bytes	JSON
force-app	Today, 12:43 AM	--	Folder
main	Today, 12:43 AM	--	Folder
default	Today, 12:43 AM	--	Folder
aura	Today, 12:39 AM	--	Folder
README.md	Today, 12:39 AM	107 bytes	Markd...cument
sfdx-project.json	Today, 12:39 AM	194 bytes	JSON

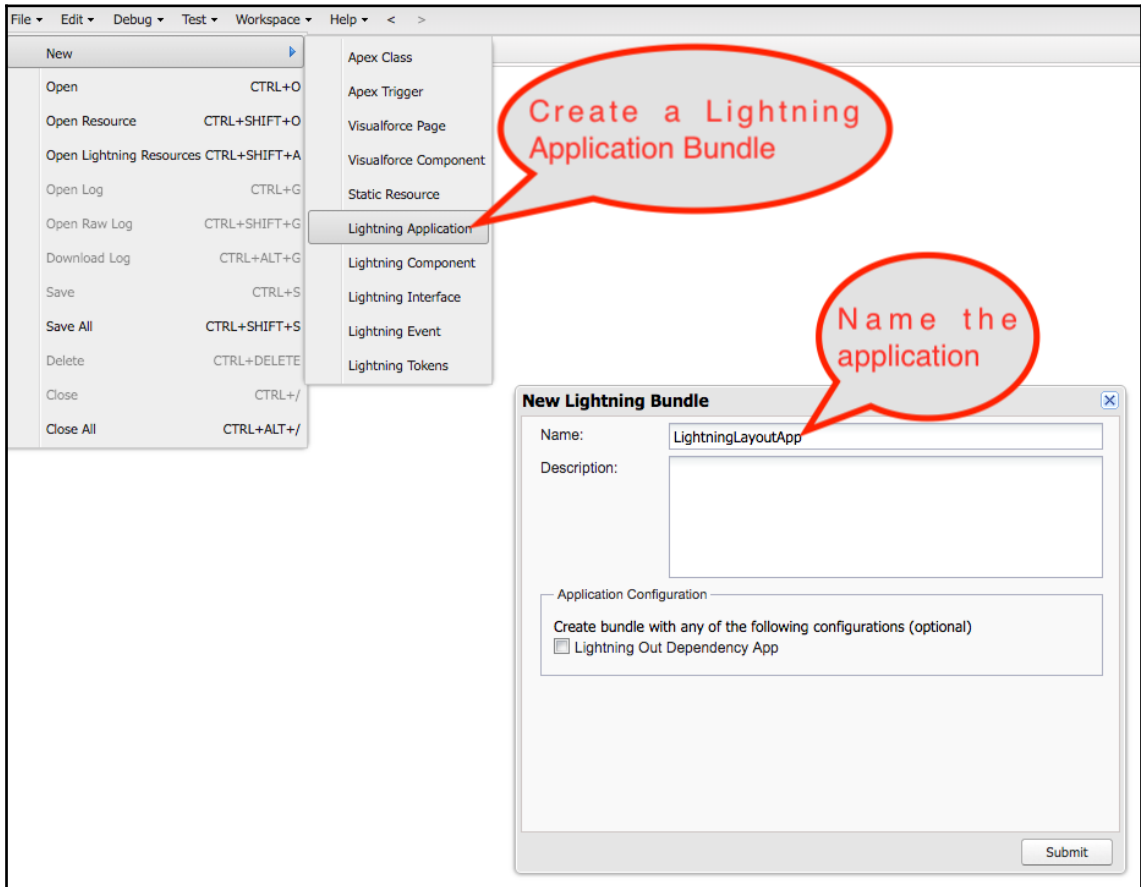






---

# Chapter 3: Lightning Component Building Blocks



```
File • Edit • Debug • Test • Workspace • Help • < >
LightningLayoutApp LightningLayoutApp.app
1 <aura:application extends="force:slds">
2 <lightning:layout verticalAlign="start" multipleRows="true">
3 <lightning:layoutItem flexibility="auto" smallDeviceSize="6" mediumDeviceSize="3" padding="around-small" size="12">
4 <lightning:card title="1">
5 <p class="slds-p-horizontal_small">
6 Card 1
7 </p>
8 </lightning:card>
9 </lightning:layoutItem>
10 <lightning:layoutItem flexibility="auto" size="12" padding="around-small" smallDeviceSize="6" mediumDeviceSize="4" largeDeviceSize="3">
11 <lightning:card title="2">
12 <p class="slds-p-horizontal_small">
13 Card 2
14 </p>
15 </lightning:card>
16 </lightning:layoutItem>
17 <lightning:layoutItem flexibility="auto" size="12" padding="around-small" smallDeviceSize="6" mediumDeviceSize="4" largeDeviceSize="3">
18 <lightning:card title="3">
19 <p class="slds-p-horizontal_small">
20 Card 3
21 </p>
22 </lightning:card>
23 </lightning:layoutItem>
24 <lightning:layoutItem flexibility="auto" size="12" padding="around-small" smallDeviceSize="6" mediumDeviceSize="4" largeDeviceSize="3">
25 <lightning:card title="4">
26 <p class="slds-p-horizontal_small">
27 Card 4
28 </p>
29 </lightning:card>
30 </lightning:layoutItem>
```

Place code markup for each example into application file

around " >

Click the link to preview the result

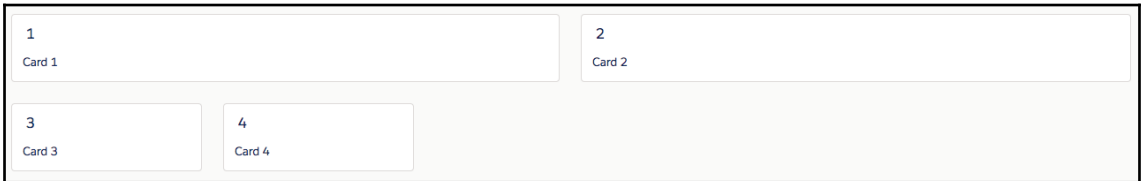
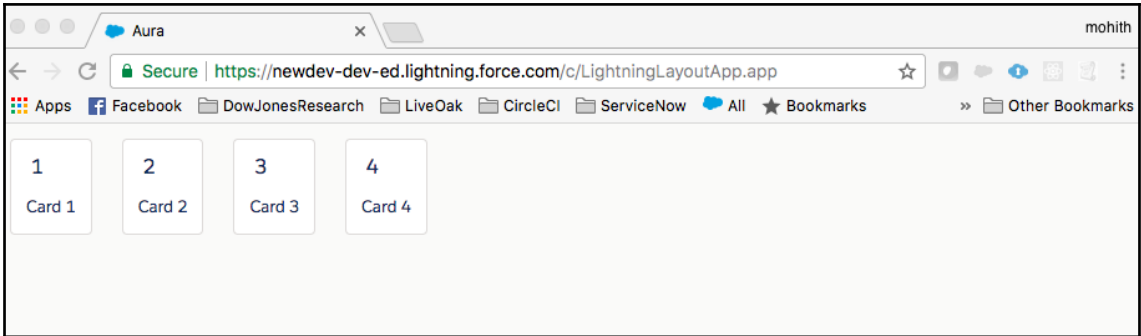
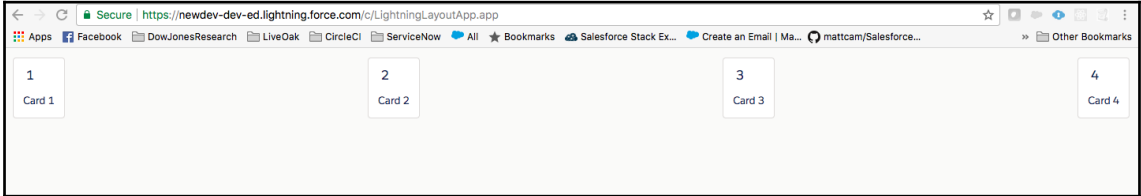
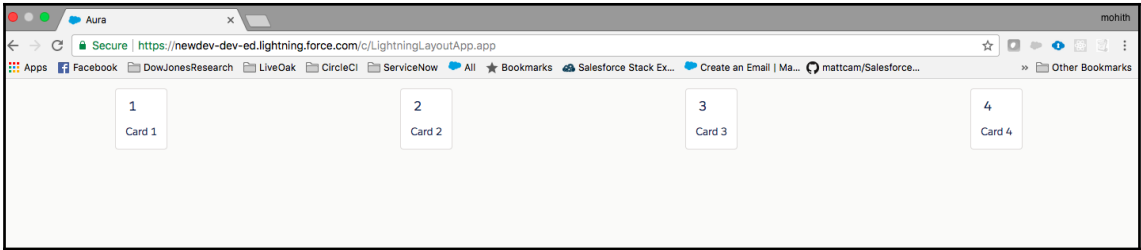
LightningLayoutApp >>

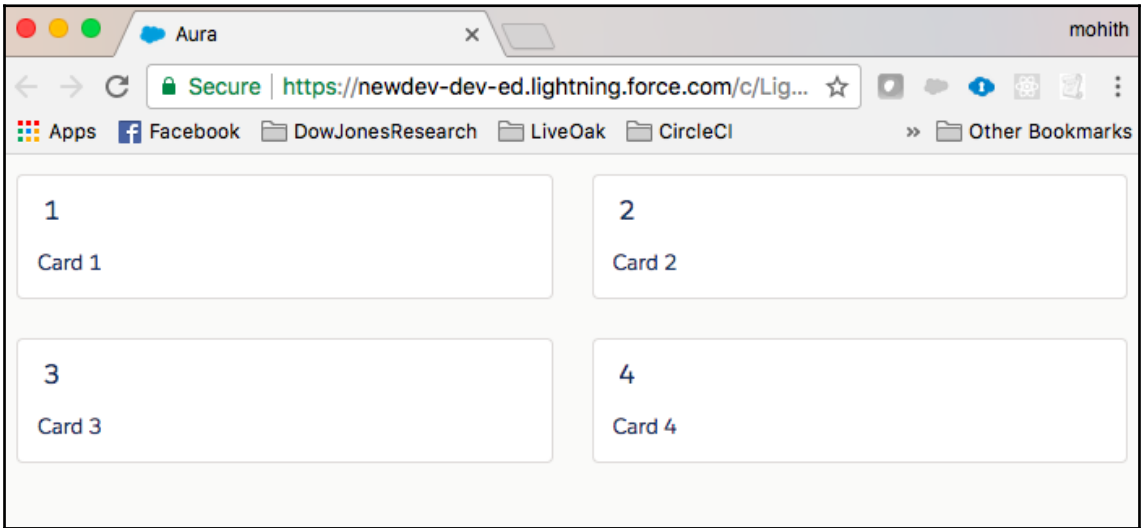
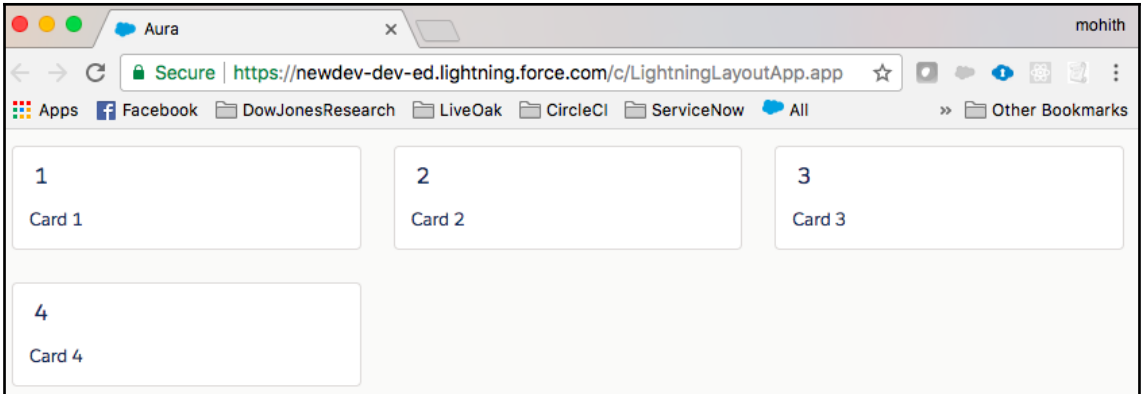
Preview

Ctrl + Shift + 1	APPLICATION	
Ctrl + Shift + 2	CONTROLLER	Create
Ctrl + Shift + 3	HELPER	Create
Ctrl + Shift + 4	STYLE	Create
Ctrl + Shift + 5	DOCUMENTATION	Create
Ctrl + Shift + 6	RENDERER	Create
Ctrl + Shift + 7	SVG	Create

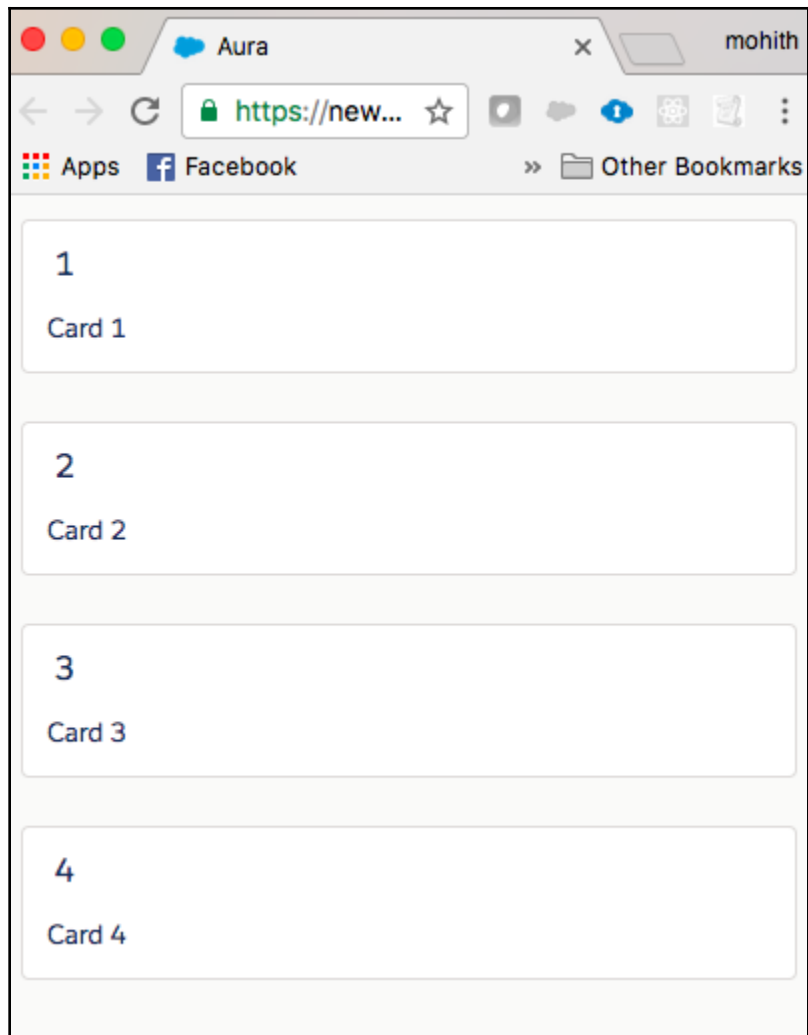
Bundle Version Settings

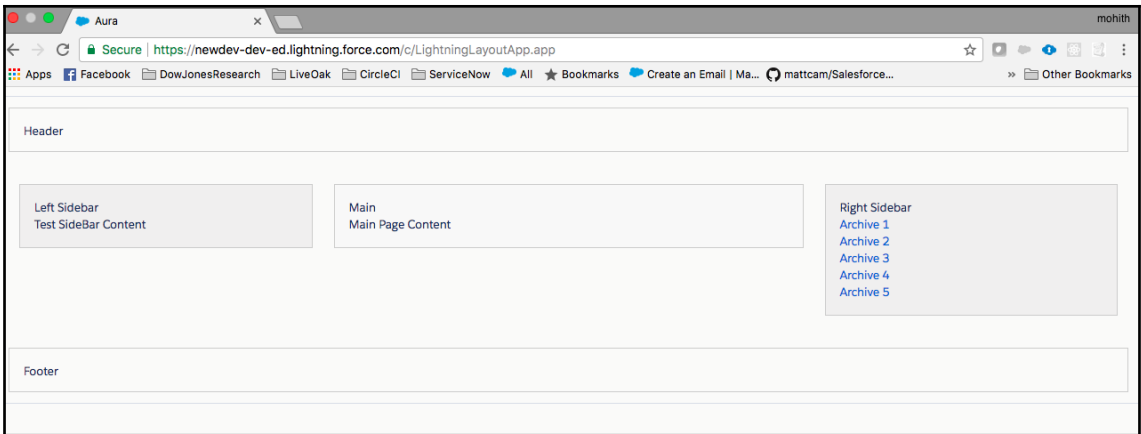
"4" largeDeviceSize="3">











---

# Chapter 4: The Lightning JavaScript API

```
cmp.findElement(): ▼ Proxy {} ⓘ NewTest.js:17
  ▼ [[Handler]]: Object
    ▶ get: f (target, property)
    ▶ has: f (target, property)
    ▶ __proto__: Object
  ▼ [[Target]]: NodeList
    length: (...)
    ▶ __proto__: NodeList
    [[IsRevoked]]: false
<span class="span1" data-aura-rendered-by="6:0"> 1</span> NewTest.js:21
span1 NewTest.js:22
<span class="span2" data-aura-rendered-by="8:0"> 2</span> NewTest.js:21
span2 NewTest.js:22
<span class="span3" data-aura-rendered-by="10:0"> 3</span> NewTest.js:21
span3 NewTest.js:22
> |
```

✕

## Sorry to interrupt

This page has an error. You might just need to refresh it.

Action failed: c:searchCmp\$controller\$handleClick [component.find(...).getElement is not a function]

Failing descriptor: {c:searchCmp\$controller\$handleClick}

Input Date

12/12/2020, 12:12 AM

Select format

MMMM DD YYYY, hh:mm:ss a format

outputDate December 12 2020, 12:12:00 AM

Text Field

test

search

test

Red

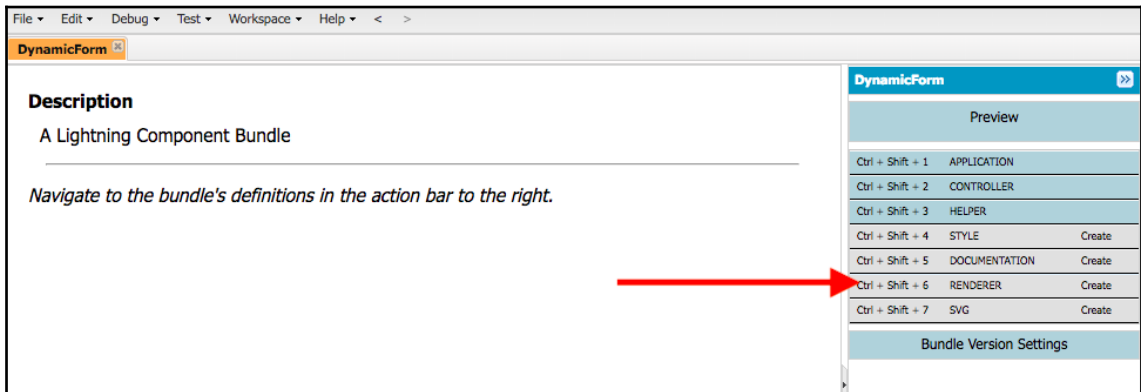
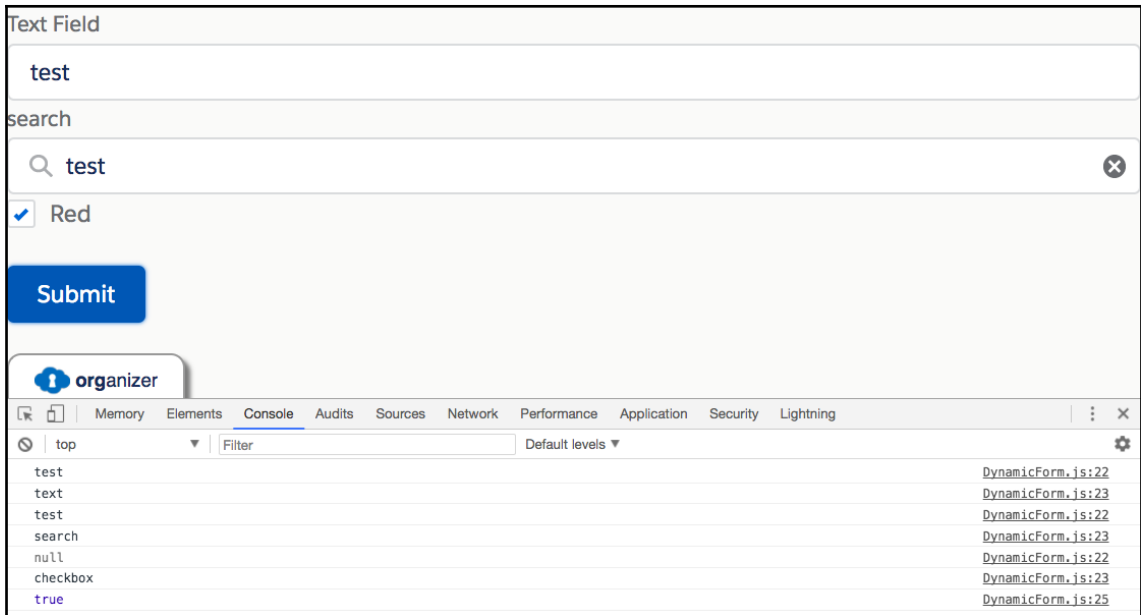
Submit

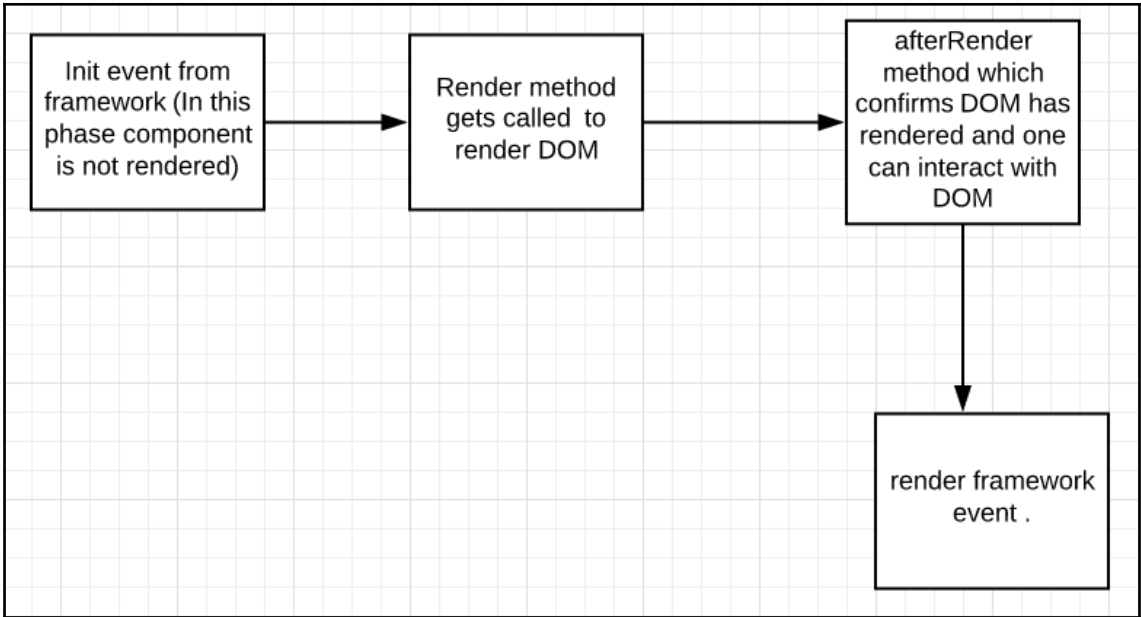
organizer

Memory Elements Console Audits Sources Network Performance Application Security Lightning

top Filter Default levels

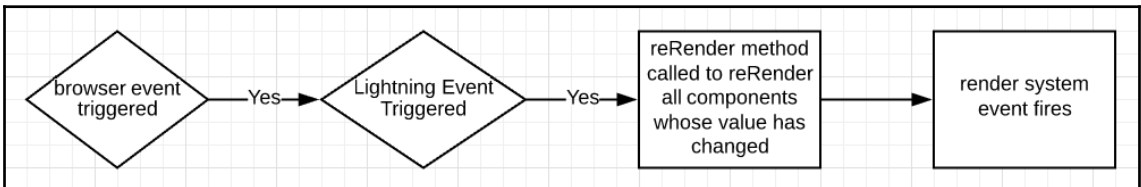
test	DynamicForm.js:22
test	DynamicForm.js:23
test	DynamicForm.js:22
search	DynamicForm.js:23
null	DynamicForm.js:22
checkbox	DynamicForm.js:23
true	DynamicForm.js:25





```

    Inside init event LifeCycleExampleApp.js:17
    step1 LifeCycleExampleApp.js:18
    FIND COMPONENT IN INIT..SecureComponent: markup://aura:html {3:0} {example}{ key: {"namespace":"c"} } LifeCycleExampleApp.js:19
    FIND DOM IN INIT..null LifeCycleExampleApp.js:20
    Inside render Function LifeCycleExampleApp.js:33
    step2 LifeCycleExampleApp.js:34
    DOM ELEMENT IN renderSecureElement: [object HTMLDivElement]{ key: {"namespace":"c"} } LifeCycleExampleApp.js:35
    ► Proxy {0: div, length: 1} LifeCycleExampleApp.js:36
    Inside afterRender Function LifeCycleExampleApp.js:45
    step3 LifeCycleExampleApp.js:46
    COMPONENT IN afterrenderSecureComponent: markup://aura:html {3:0} {example}{ key: {"namespace":"c"} } LifeCycleExampleApp.js:47
    DOM ELEMENT IN afterRenderSecureElement: [object HTMLDivElement]{ key: {"namespace":"c"} } LifeCycleExampleApp.js:48
    Inside render event LifeCycleExampleApp.js:23
    step4 LifeCycleExampleApp.js:24
    FIND COMPONENT ONCE RENDER EVENT IS FIRED..SecureComponent: markup://aura:html {3:0} {example}{ key: {"namespace":"c"} } LifeCycleExampleApp.js:25
    FIND DOM ONCE RENDER EVENT IS FIRED..SecureElement: [object HTMLDivElement]{ key: {"namespace":"c"} } LifeCycleExampleApp.js:26
  
```



1 2 3 4  
 search  
 s  
 Submit

organizer

Memory Elements Console Audits Sources Network Performance Application Security Lightning

top Filter Default levels

Inside rerender	LifeCycleExampleApp.js:44
step2	LifeCycleExampleApp.js:45
Inside render event	LifeCycleExampleApp.js:23
step4	LifeCycleExampleApp.js:24
FIND COMPONENT ONCE RENDER EVENT IS FIRED..SecureComponent: markup://aura:html {3:0} {example}{ key: {"namespace":"c"} }	LifeCycleExampleApp.js:25
FIND DOM ONCE RENDER EVENT IS FIRED..SecureElement: [object HTMLDivElement]{ key: {"namespace":"c"} }	LifeCycleExampleApp.js:26

### New Custom Label Help for this Page

**Custom Label Edit** Save Save & New Cancel

Short Description  Name

Language  Protected Component

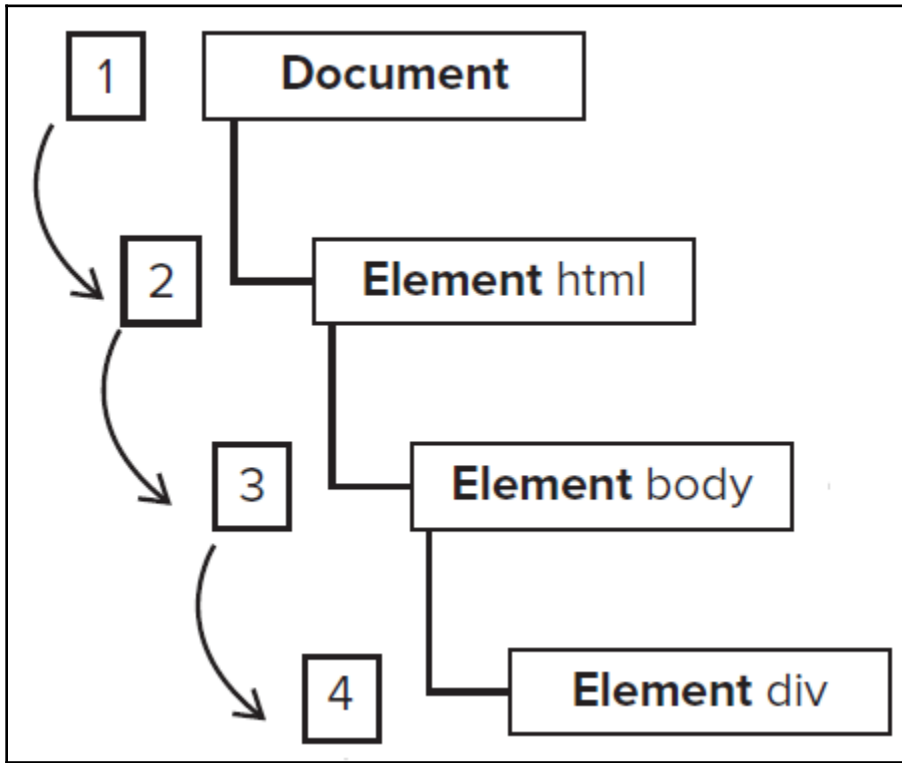
Categories

Value

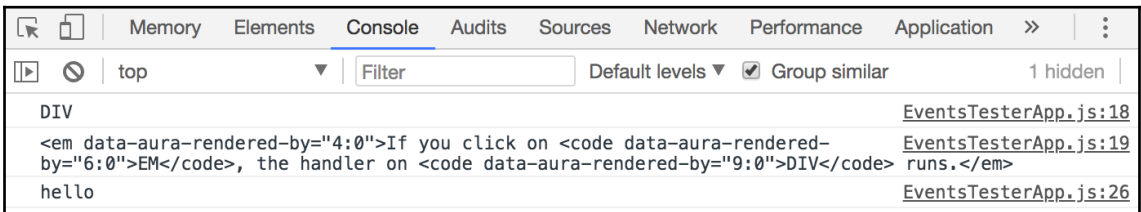
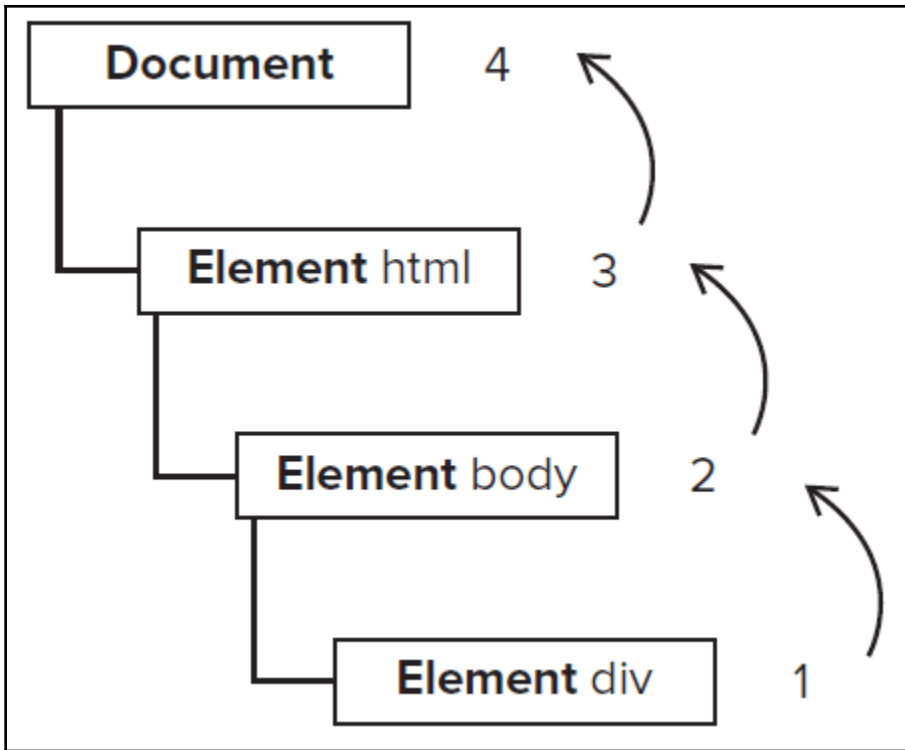
Save Save & New Cancel

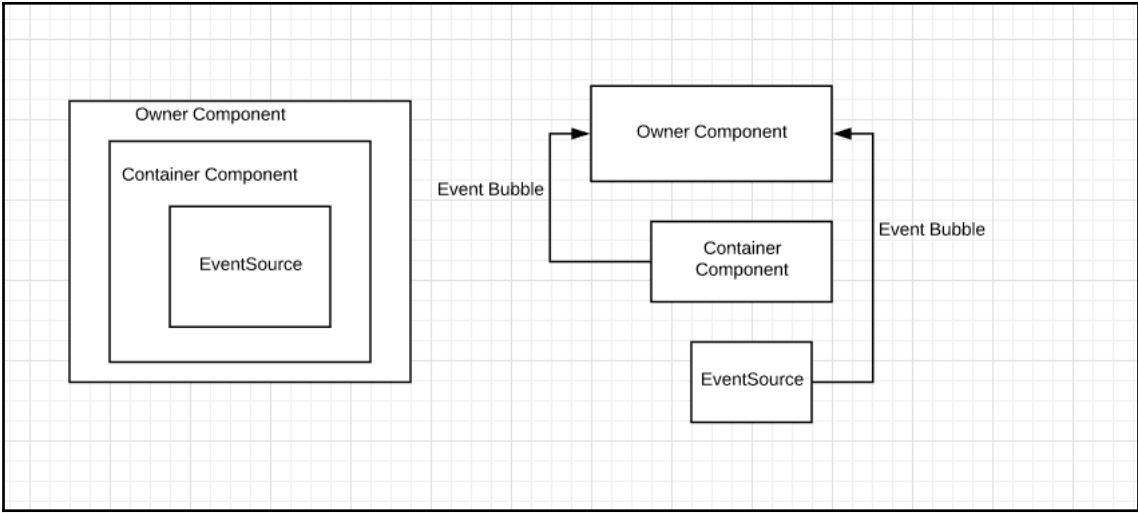
---

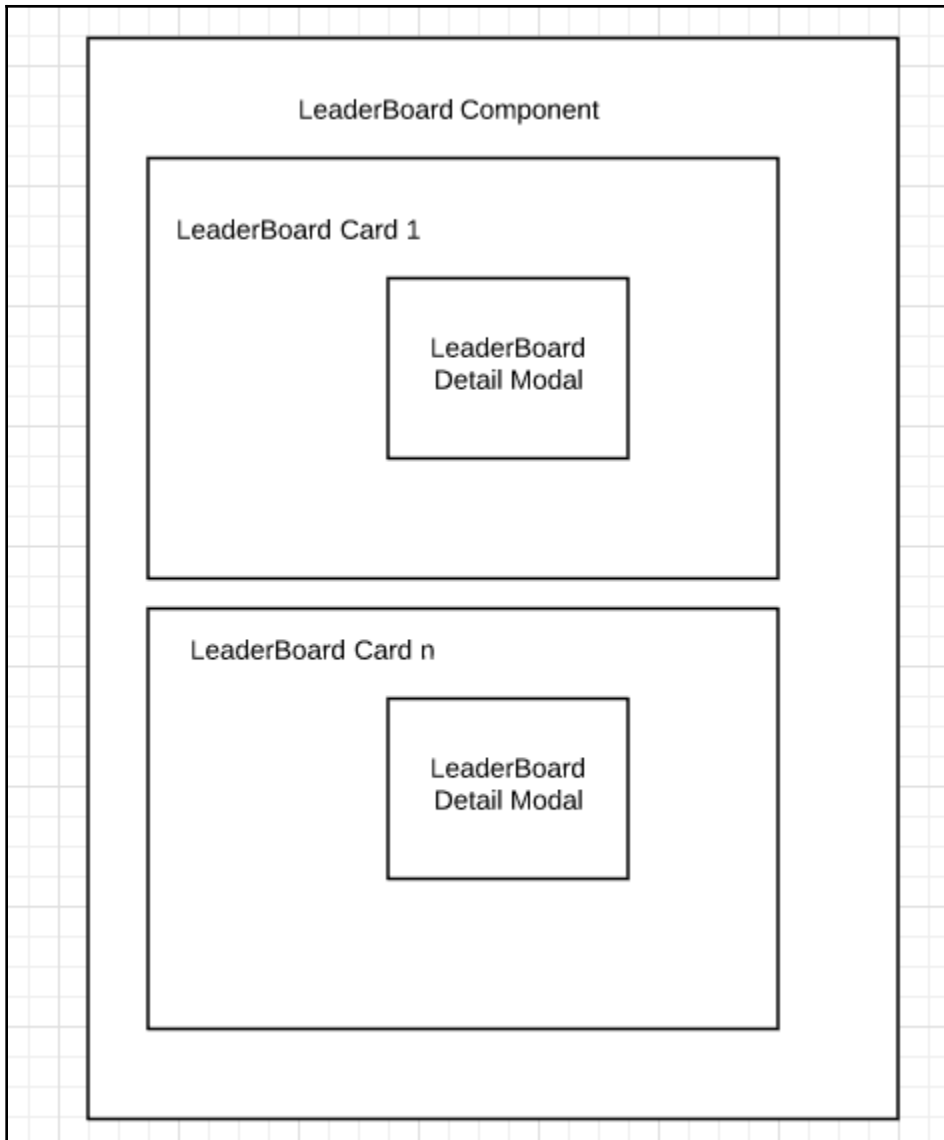
## Chapter 5: Events in the Lightning Component Framework














SALES LEADERBOARD			
	Name: Mohith SEDreamin	Email: mohith+sedream@codescience.com	Total Revenue(USD): 235000
	Name: Barton Ledford	Email: barton@codescience.com	Total Revenue(USD): 125000

SALES LEADERBOARD



Name:  
Mohith SEDreamin

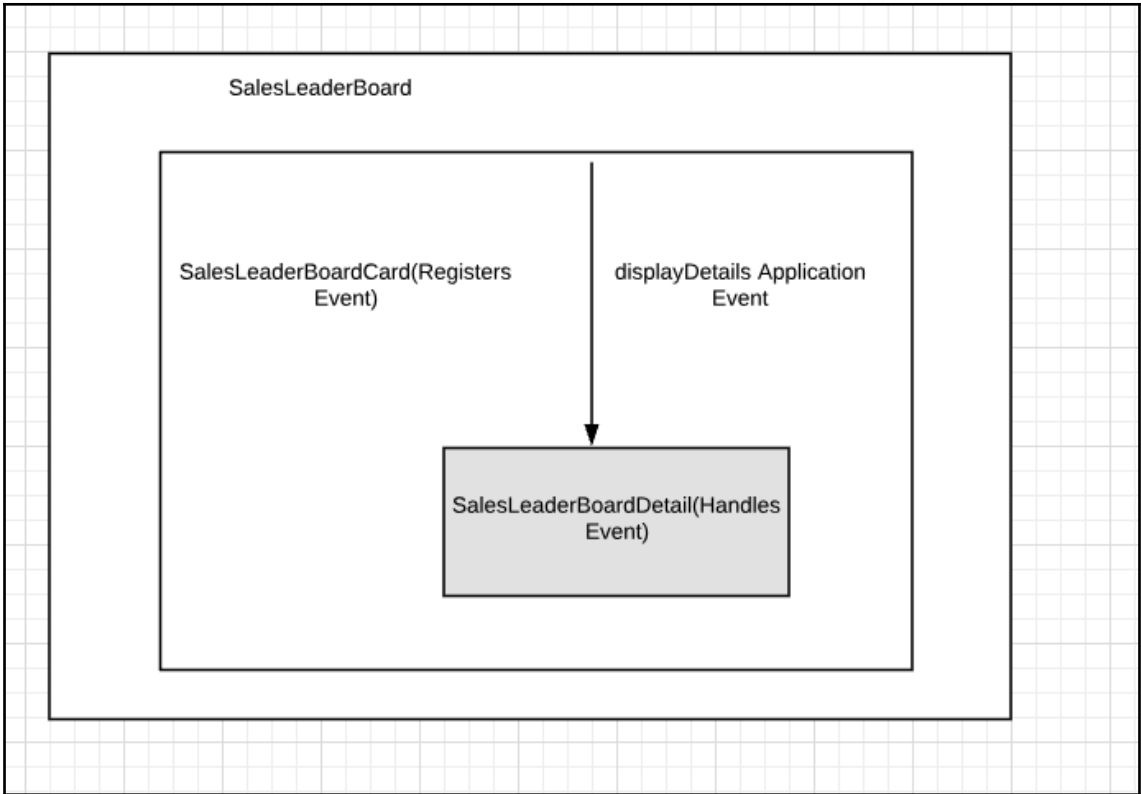
Email:  
mohith+sedream@codescience.com

Total Revenue(USD):  
235000

✕

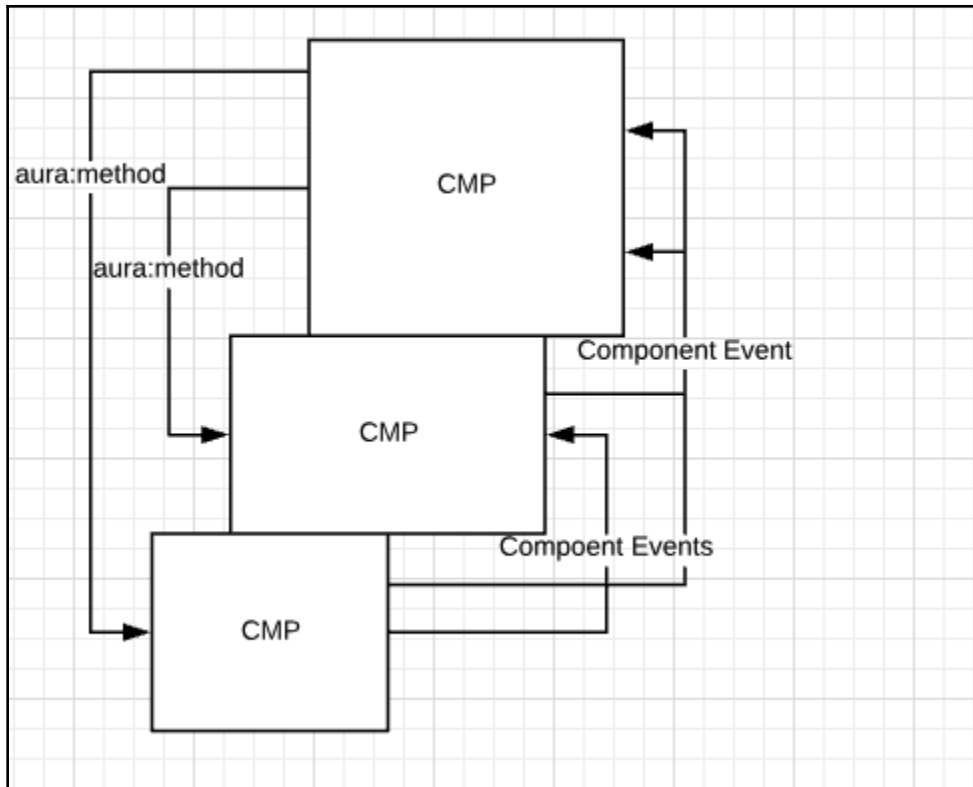
### List Of Opportunities Closed Won

OPPORTUNITY NAME	ACCOUNT NAME	CLOSE DATE	AMOUNT
Edge Installation	Edge Communications	2016-01-08	\$50000
Edge Emergency Generator	Edge Communications	2016-01-06	\$75000



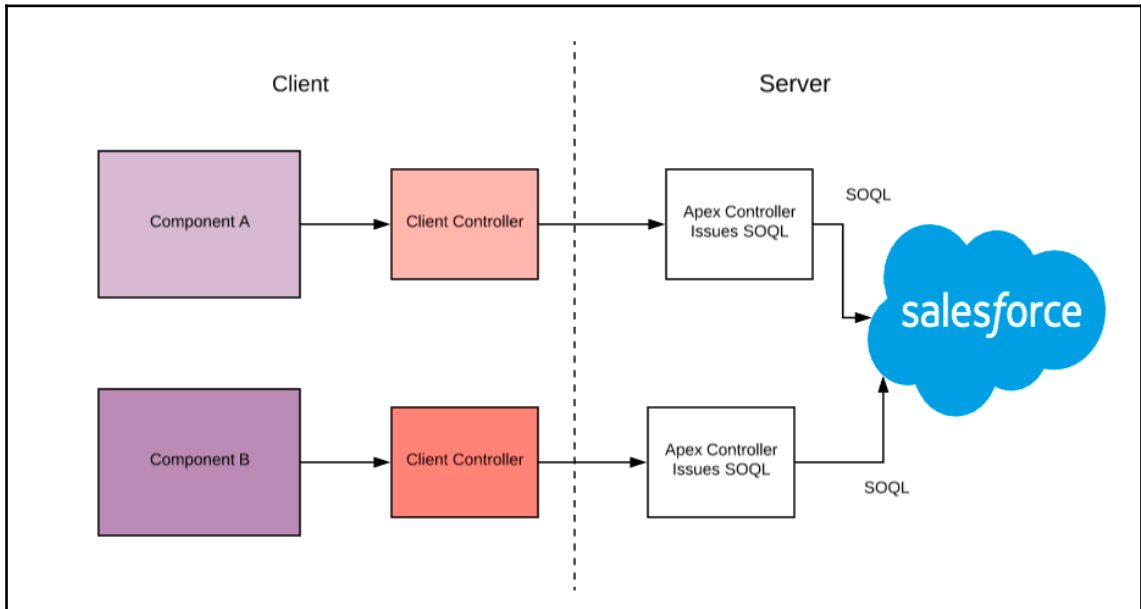
Test3 Test3 mohith.shrivastava@salesforcemvps.com
Test2 Test2 mohith@codescience.com
Test1 Test1 msrivastav13@gmail.com

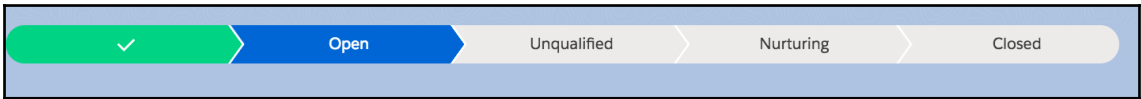
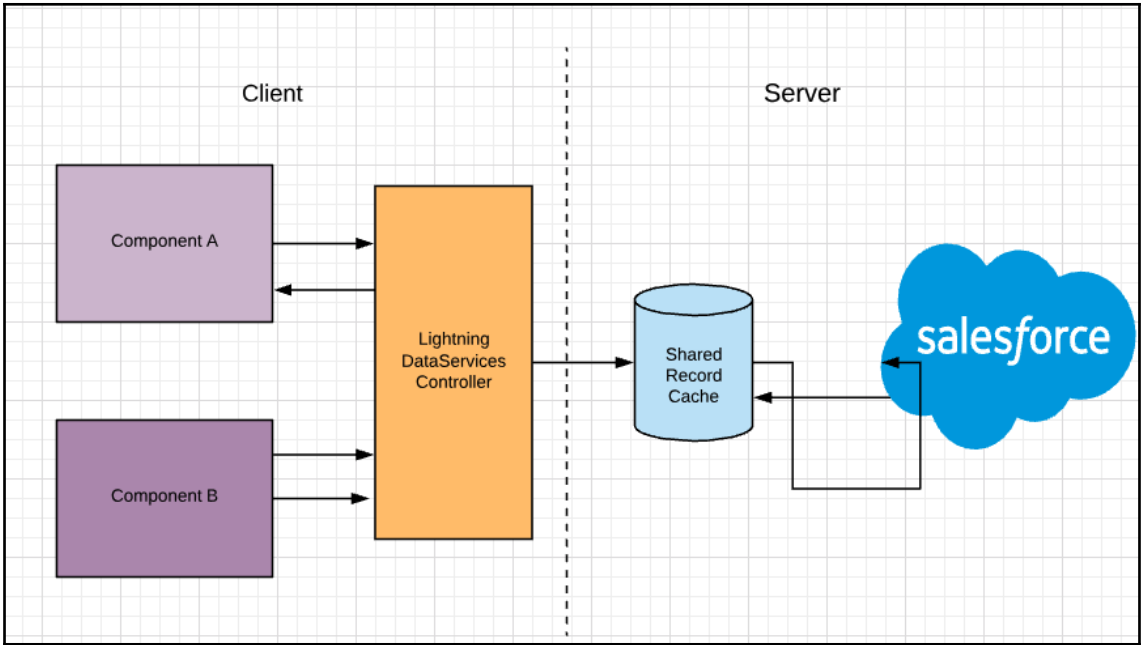
[Get Contacts From Server](#)



---

# Chapter 6: Lightning Data Service and Base Components







Setup | Home | Object Manager | Lead

Lead Field: Lead Status

Field Information

Field Label	Field Name
Lead Status	Status

Field Dependencies: No dependencies defined.

Validation Rules: No validation rules defined.

Lead Status Picklist Values

Action	Values	API Name	Converted	Default	Chart Colors	Modified By
Edit   Deactivate	Closed	Closed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Assigned dynamically	User User, 7/12/2018 10:44 PM
Edit   Deactivate	Contacted	Contacted	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Assigned dynamically	User User, 7/12/2018 10:42 PM
Edit   Deactivate	Open	Open	<input type="checkbox"/>	<input type="checkbox"/>	Assigned dynamically	User User, 7/12/2018 10:42 PM
Edit   Deactivate	Unqualified	Unqualified	<input type="checkbox"/>	<input type="checkbox"/>	Assigned dynamically	User User, 7/12/2018 10:43 PM
Edit   Deactivate	Nurturing	Nurturing	<input type="checkbox"/>	<input type="checkbox"/>	Assigned dynamically	User User, 7/12/2018 10:43 PM

Lightning Components

Search components...

Custom (7)

- LeadCreateComponent
- LeadCreateFlowExample
- LeadPath
- LightningListView
- LightningCarousel
- SalesLeaderBoard
- Toaster

Custom - Managed (0)

No components available.

Desktop | Shrink To View | Refresh | Save | Activation...

Lead: Mohith Srivastava

Title: Company Codescience INC, Phone: (408) 307-3326

Lead Status: Nurturing

Leads With No Phone

1 item - Sorted by Name - Filtered by Phone - Updated a few seconds ago

NAME	EMAIL	COMPANY	STATE	LEAD STAT.	UNBEA.	CREATED DATE	OWNE.
Text Lead		Text Lead		Contacted		3/13/2018 8:54 PM	User

DETAILS

Lead Owner: User User, Phone: (408) 307-3326

Name: Mohith Srivastava

Company: Codescience INC

Title: [Empty]

Lead Source: [Empty]

Industry: [Empty]

Annual Revenue: [Empty]

Address: [Empty]

Created By: User User, 3/10/2018 9:21 PM

Last Modified By: User User, 3/10/2018 9:36 PM

Description: [Empty]

Page: LightningListView

Object Name: Lead

ListView Name: Leads\_With\_No\_Phone

Set Component Visibility

Filters: + Add Filter

---

**FULL NAME**

Salutation

Mr. ▼

First Name

Test

Last Name

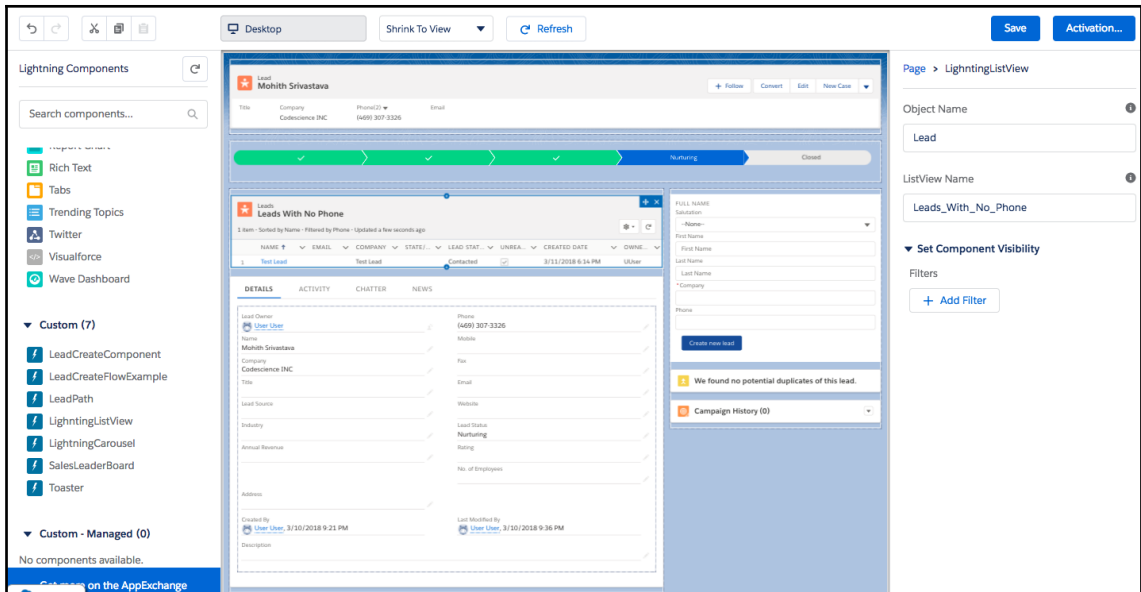
Lead

\*Company

Test Lead

Phone

**Create new lead**



lightning:formattedAddress  
 lightning:formattedDateTime  
 lightning:formattedEmail  
 lightning:formattedLocation  
 lightning:formattedName  
 lightning:formattedNumber  
 lightning:formattedPhone  
 lightning:formattedRichText  
 lightning:formattedText  
 lightning:formattedTime  
 lightning:formattedUrl

---

\* ADDRESS

Country  
United States

\* Street  
1717 White oak Road

\* City US \* State Tennessee

\* PostalCode  
37415

Formatted Address :  
1717 White oak Road  
US, TN 37415

CONTACT NAME

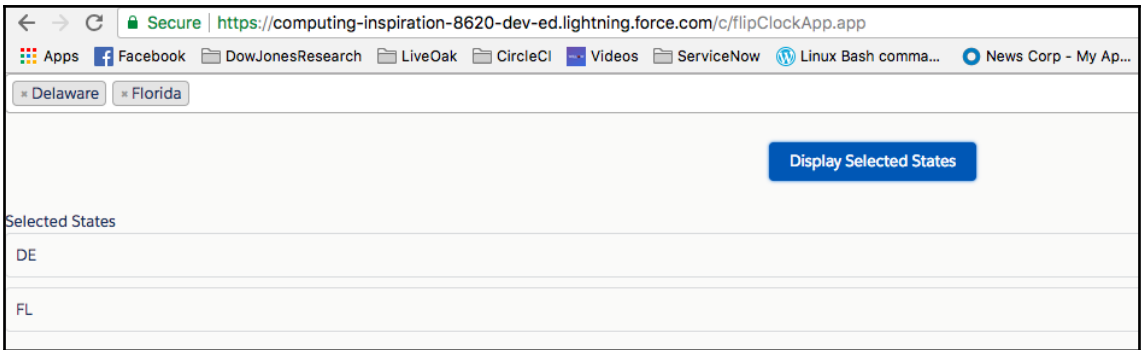
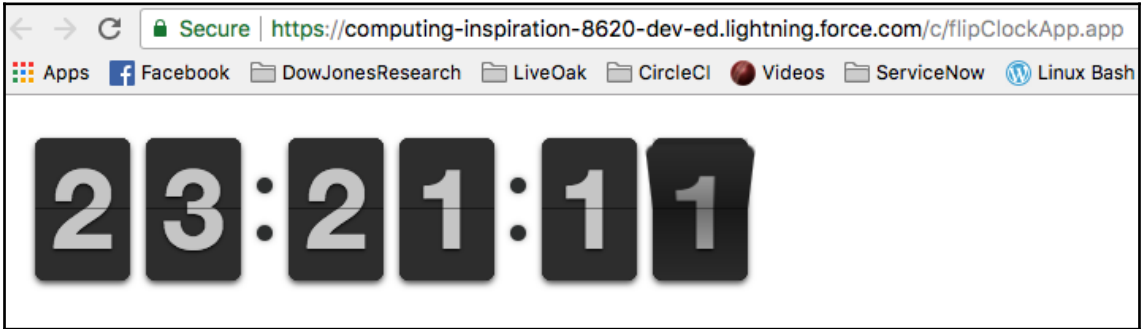
First Name  
Mohith Kumar

Last Name  
srivastav

Formatted Name : Mohith Kumar srivastav

---

# Chapter 7: Using External JavaScript Libraries in Lightning Components



The screenshot shows the Chrome DevTools Console with the 'Console' tab selected. The top navigation bar includes 'Memory', 'Elements', 'Console', 'Audits', 'Sources', 'Network', 'Performance', 'Application', 'Security', and 'Lightning'. Below the navigation bar, there are controls for 'top', a 'Filter' input, 'Default levels', and a checked 'Group similar' option. A list of entries is displayed, including:

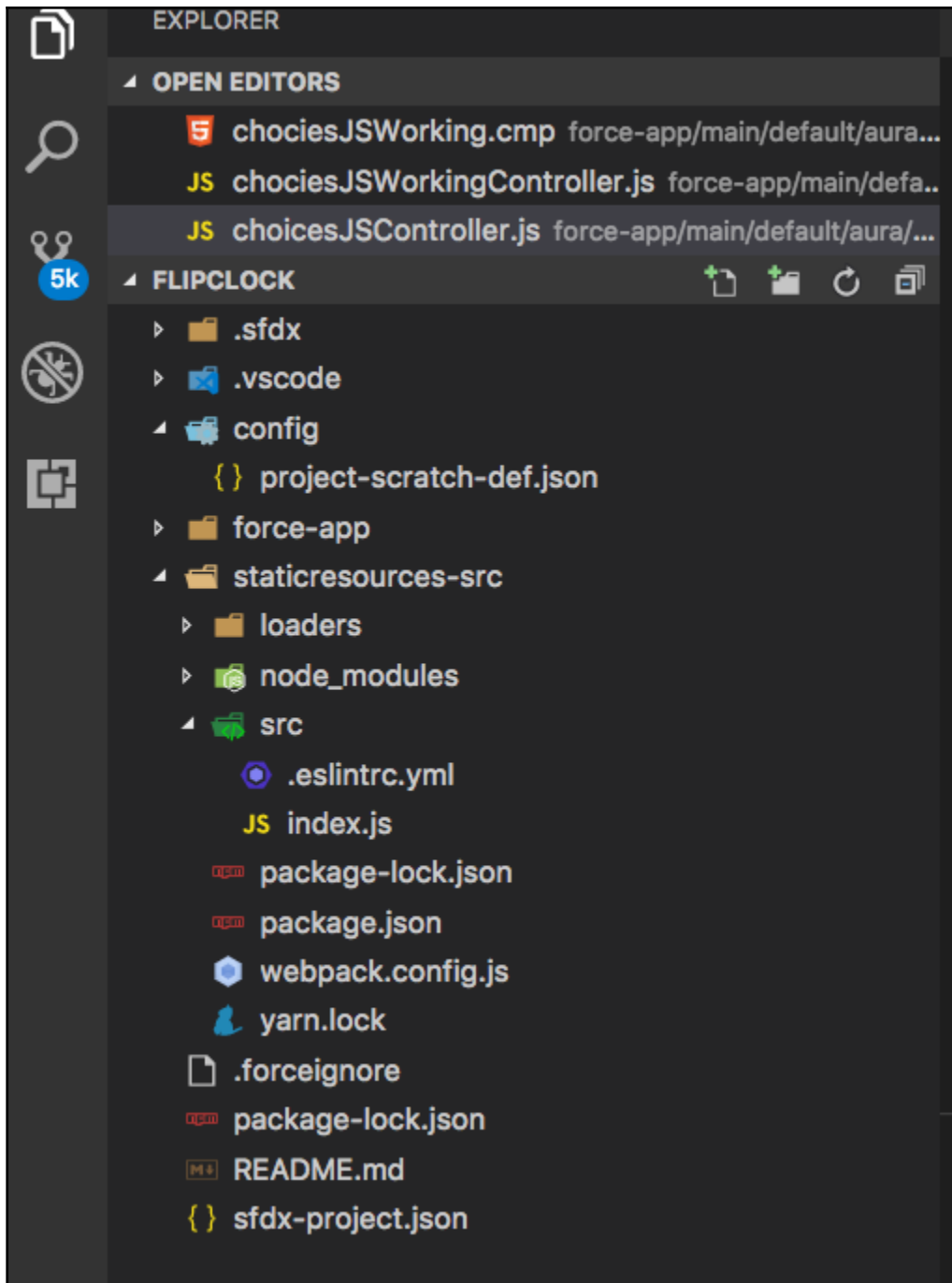
- Hide network
- Preserve log
- Selected context only
- Log XMLHttpRequests
- Show timestamps
- Autocomplete from history

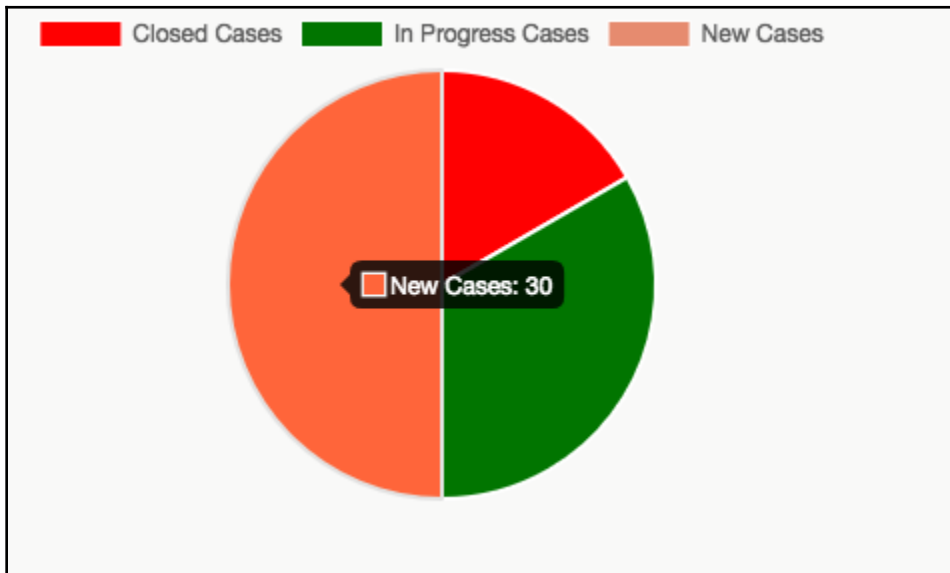
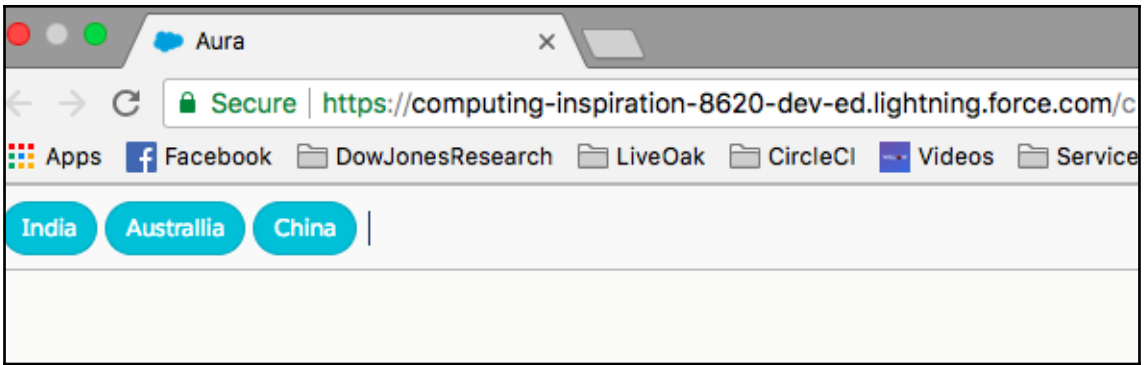
The main list of entries includes:

- May 27th 2018, 8:22:05 pm
- Sunday
- May 27th 18
- 2018 escaped 2018
- 2018-05-27T20:22:05-04:00
- 7 years ago
- 6 years ago
- 20 hours ago
- in 4 hours
- 22 minutes ago
- 05/17/2018
- Last Monday at 8:22 PM
- Last Thursday at 8:22 PM
- Yesterday at 8:22 PM
- Today at 8:22 PM
- Tomorrow at 8:22 PM

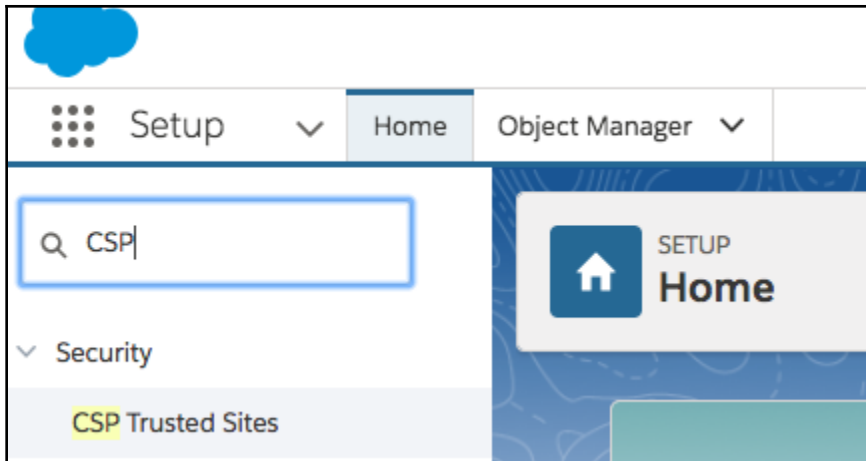
The screenshot shows a browser error dialog box with a dark blue header and a white body. The header contains the text "Sorry to interrupt" and a close button (X). The body contains the following text:

This page has an error. You might just need to refresh it.  
Action failed: c:choicesJS\$controller\$jsLoaded [Illegal invocation]  
Failing descriptor: {c:choicesJS\$controller\$jsLoaded}









SETUP  
**CSP Trusted Sites**

### CSP Trusted Site Definition

Help for this Page

The trusted site's URL is added to the list of allowed sites for the following directives in the CSP header:

- connect-src
- frame-src
- img-src
- style-src
- font-src
- media-src

These directives allow Lightning components to load resources, such as images, styles, and fonts, from the site. It also allows client-side JavaScript code to make requests to the site. Additionally, trusted sites opened in Lightning can use the [Salesforce Console Integration Toolkit](#) JavaScript methods.

#### Content Security Policy Trusted Site Edit

Save Save & New Cancel

Trusted Site Name

Trusted Site URL

Description

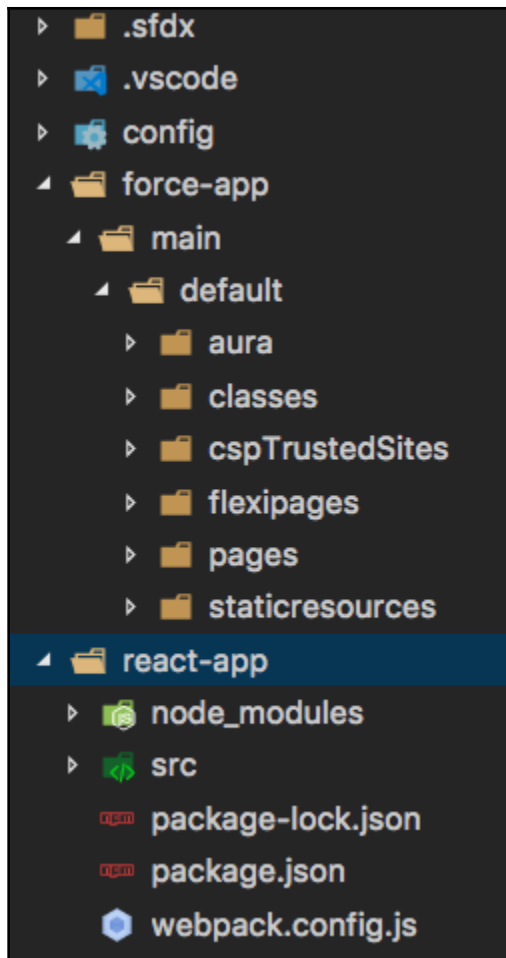
Active

Save Save & New Cancel

---

Base Currency for Result is inEUR

CURRENCY	RATE
AUD	1.5366
BGN	1.9558
BRL	4.3415
CAD	1.5058
CHF	1.1517
CNY	7.4174
CZK	25.907
DKK	7.4429
GBP	0.87143
HKD	9.0681
HRK	7.3903
HUF	320.05



# Chapter 8: Debugging Lightning Components

The screenshot shows the Salesforce Setup interface. On the left, a navigation menu includes 'Setup', 'Home', and 'Object Manager'. The 'Setup' page is open to 'Debug Mode'. The 'Debug Mode Users' section is active, displaying a table of users with debug mode enabled. The table has columns for 'Enable', 'Disable', 'Full Name', 'Debug Mode', 'Alias', 'Username', 'Last Login', 'Role', and 'Profile'. A red arrow points to the 'Lightning' tab in the developer console below.

Enable	Disable	Full Name	Debug Mode	Alias	Username	Last Login	Role	Profile
<input type="checkbox"/>	<input type="checkbox"/>	Chatter_Expert	✓	Chatter	chatty00dz00000ndvdbmat.rj@welaunm@chatter.salesforce.com		Chatter Free User	Chatter Free User
<input type="checkbox"/>	<input type="checkbox"/>	Integration_CPD	✓	cpouac	ppointegration@00dz00000ndvdbmat.ext		CPQ Integration User	CPQ Integration User
<input type="checkbox"/>	<input type="checkbox"/>	User_Integration	✓	Integ	integration@00dz00000ndvdbmat.com		Analytics Cloud Integration User	Analytics Cloud Integration User
<input type="checkbox"/>	<input type="checkbox"/>	User_Security	✓	sec	insightsecurity@00dz00000ndvdbmat.com		Analytics Cloud Security User	Analytics Cloud Security User
<input type="checkbox"/>	<input type="checkbox"/>	User_User	✓	UUser	test-sobkn3zdub9@example.com	6/8/2018 9:09 PM	System Administrator	System Administrator

The screenshot shows the Salesforce developer console. The 'Lightning' tab is selected, and the component tree is expanded to show the structure of the 'youtubearchApp'. The HTML markup for the search input field is visible, showing the use of the 'aura:id' attribute for styling. A red arrow points to the 'Lightning' tab in the developer console.

```
<div class="slds-form-element">
  <input type="text" value="lightning salesforce" data=...>
</div>
```

Enter search term

Dreamforce 2018

Search

You searched for Dreamforce 2018

### Dreamforce 2017 Opening Film

Every Industrial Revolution has been defined by Trailblazers. As we enter this Fourth Industrial Revolution Salesforce is committed to helping a new age of ...



### Dreamforce and tips for 2018 - G2 Crowd's Michele Aymold Shares



### Dreamforce 2017: Marc Benioff - Salesforce

Video de la Keynote de Marc Benioff, CEO de Salesforce, en el Dreamforce 2017 de San Francisco. Aquí puede leer la noticia completa: ...



### Dreamforce 2017



```

Component Tree Performance Transactions Event Log Actions Storage
Expand All Show Global IDs Update On Select
<c:youtubeSearchApp>
  <{!v.body}>
    <c:youtubeSearch searchTerm="lightning salesforce">
      <div class="c-container">
        <lightning:layout horizontalAlign="center" verticalAlign="center" multipleRows="true" pullToBoundary=" " privateComputedClass="slds-grid slds-grid_align-center slds-grid_vertical-align-center slds-wrap">
          <div class="{!v.privateComputedClass}" title="{!v.title}">
            <{!v.body}>
              <lightning:layoutItem size="6" flexibility="auto" padding=" " privateFlexibility=[1] privateComputedClass="slds-col slds-size_6-of-12">
                <div class="{!v.privateComputedClass}" title="{!v.title}">
                  <{!v.body}>
                    <div class="slds-form-element">
                      <label class="slds-form-element__label" for="text-input-id-1">
                        "Enter search term"
                      <div class="slds-form-element__control">
                        <input aura:id="searchBox" class="slds-input" type="search" placeholder="Enter Search Term" id="text-input-id-1">
                      <lightning:layoutItem size="4" flexibility="auto" padding="horizontal-small" privateFlexibility=[1] privateComputedClass="slds-p-right_small slds-p-left_small slds-col slds-size_4-of-12">
                        <div class="{!v.privateComputedClass}" title="{!v.title}">
                          <{!v.body}>
                            <lightning:button onfocus="null" onblur="null" class="c-btn" title="" label="Search" variant="brand" iconPosition="left" disabled="false" onclick="{!c.handleClick}" type="button" privateComputedClass="slds-button slds-button_brand c-btn" privateComputedAriaExpanded="null" privateComputedAriaLive="null" privateComputedAriaAtomic="null">
                              <button aura:id="privateButton" class="{!v.privateComputedClass}" onblur="{!c.handleBlur}" aria-live="{!v.privateComputedAriaLive}" name="{!v.name}" onfocus="{!c.handleFocus}" disabled="{!v.disabled}" tabindex="{!v.tabindex}" aria-controls="{!v.ariaControls}" value=""

```

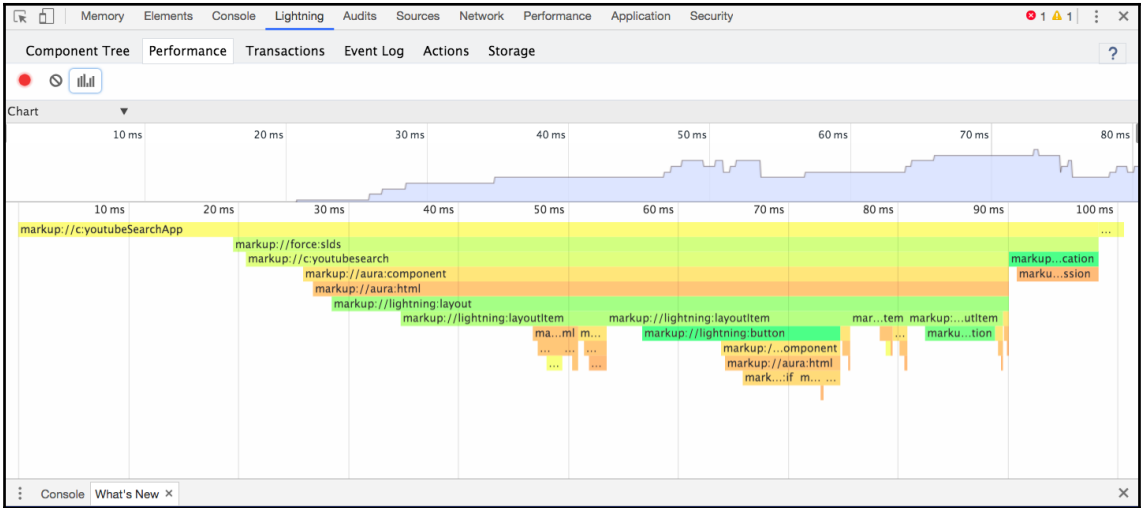
```

Memory Elements Console Lightning Audits Sources Network Performance Application Security
top Filter Default levels Group similar 1 hidden
Hide network Log XMLHttpRequests
Preserve log Show timestamps
Selected context only Autocomplete from history
> $auraTemp+""
< "markup://c:youtubeSearch {3:0}"
> $auraTemp.getElement();
< ><div class="c-container cYoutubeSearch" data-aura-rendered-by="5:0" data-aura-class="cYoutubeSearch">_</div>
> inspect($auraTemp.getElement())
< ><div class="c-container cYoutubeSearch" data-aura-rendered-by="5:0" data-aura-class="cYoutubeSearch">_</div>
lightning salesforce youtubeSearch.js:17

```

Component Tree Performance Transactions Event Log Actions Storage

CONTEXT	ID	DURATION	START TIME	TIMELINE
http-request [0]	0	476ms	16866ms	16858ms   16979ms   17100ms   17221ms
apex://YoutubeSearch/ACTION\$Search		16.4		



Component Tree Performance Transactions Event Log Actions Storage

● ○ | Filter | App Events Cmp Events Unhandled

▶ aura:valueChange {! v.data }  
CMP

▼ aura:valueChange {! v.items }  
CMP

Parameters -{  
 "expression": "v.items",  
 "value": +{...},  
 "oldValue": null  
 }

Caller undefined

Source <c:youtubeSearch globalId="3:0" searchTerm="test" data="{...}">

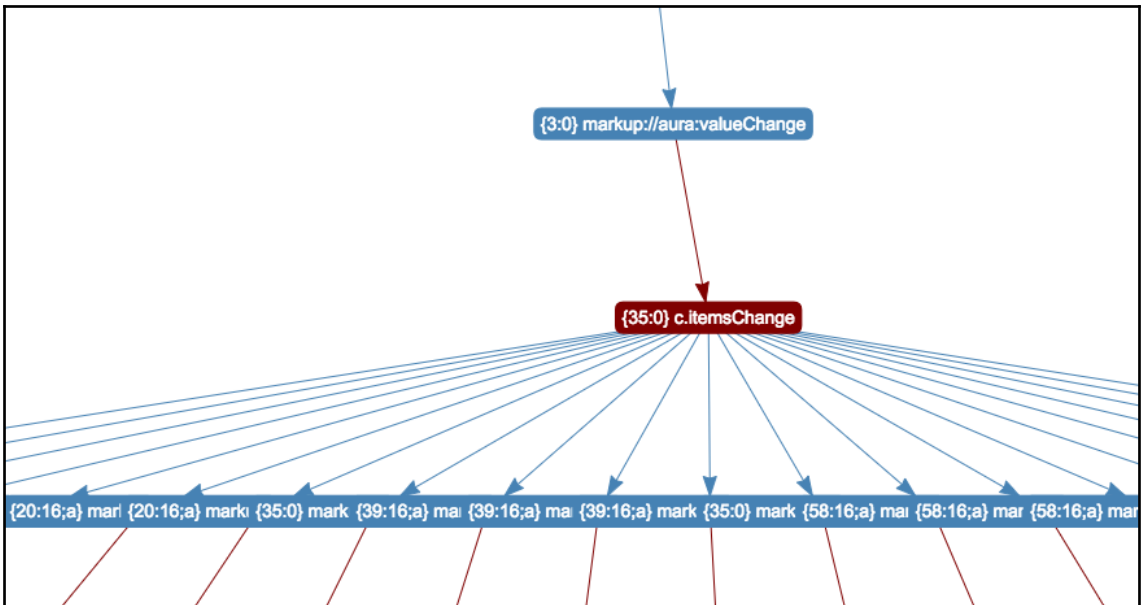
Duration 68.4000ms

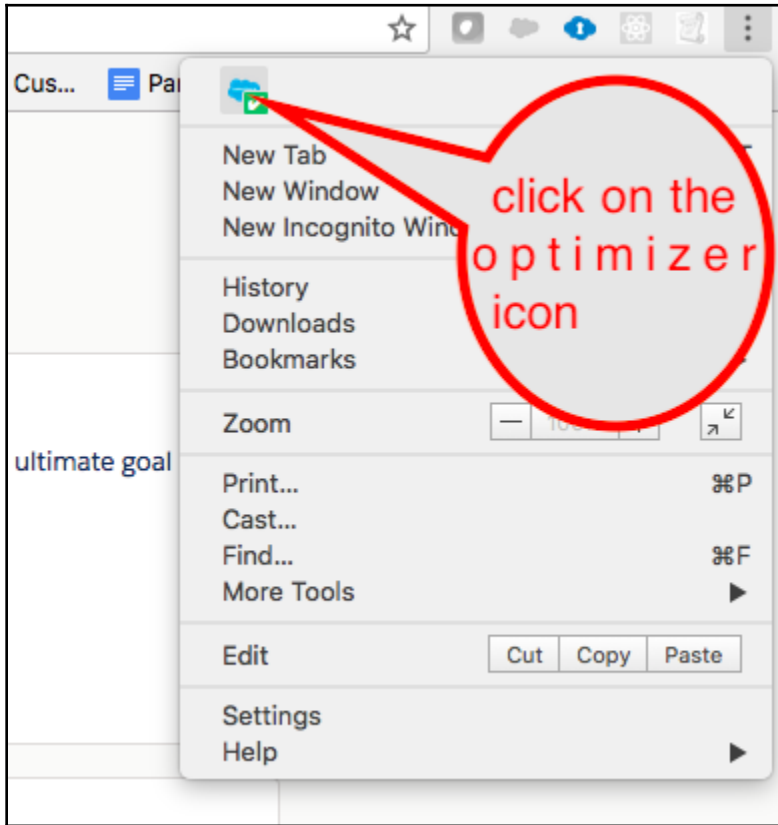
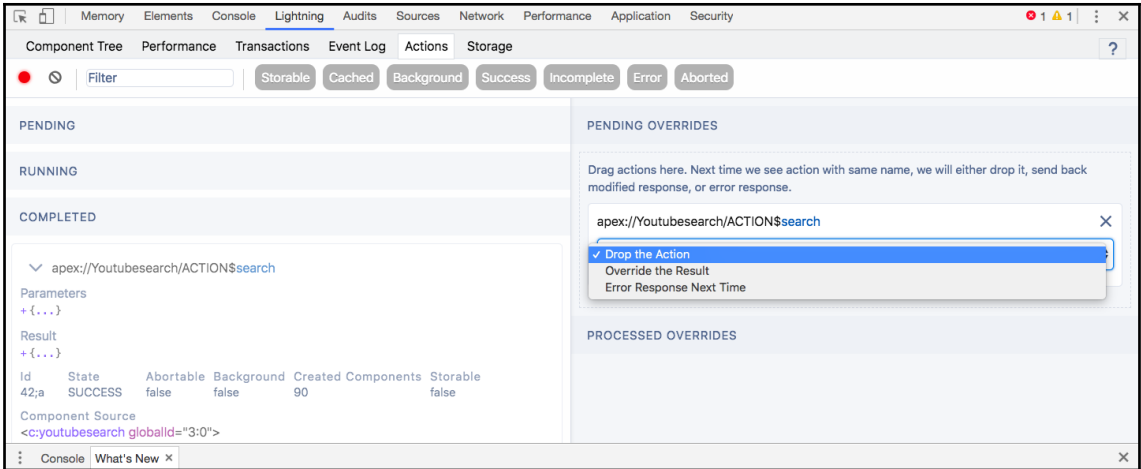
Call Stack

Event Fired	Handled By
markup://aura:valueChange <c:youtubeSearch globalId="3:0">	



Component Tree Performance Transactions Event Log Actions Storage			
Heavy (Bottom Up) <span>👁</span> <span>✕</span>			
Self	Total	Function	
19.48%	90.61%	markup://c.youtubeSearchApp	(program):1
19.43%	54.42%	▼ markup://lightning:layoutItem	(program):1
19.43%	54.42%	▼ markup://lightning:layout	(program):1
19.43%	54.42%	▶ markup://aura:html	(program):1
9.02%	9.02%	(idle)	(program):1
8.52%	8.82%	▶ markup://aura:if	(program):1
8.23%	62.92%	▶ markup://aura:html	(program):1
7.13%	17.92%	▶ markup://lightning:button	(program):1
6.34%	6.34%	▶ markup://aura:iteration	(program):1
6.26%	61.26%	▶ markup://lightning:layout	(program):1
5.17%	68.99%	▼ markup://c.youtubearch	(program):1
5.17%	68.99%	▼ markup://force:slds	(program):1
5.17%	68.99%	markup://c.youtubeSearchApp	(program):1
3.31%	3.31%	▶ markup://aura:expression	(program):1
2.93%	63.82%	▶ markup://aura:component	(program):1
2.34%	2.34%	markup://aura:text	(program):1
1.17%	71.12%	▶ markup://force:slds	(program):1
0.67%	0.97%	▶ markup://aura:application	(program):1





Name	Total (ms)	Background	Storable	Abortable	Action (ms)	DB (ms)	Callback (ms)	Enqueue (ms)	Controller	Component
search	627	<span style="color:red">●</span>	<span style="color:green">●</span>	<span style="color:green">●</span>	406	3	12	0	apex://YoutubeSearch	c.youtubeSearch

Failed to load resource: the server responded with a status of 404 (Not Found)

Dreamforce 2018

```

Object {
  etag: ""DuHzAJ-eQIiCip7p4ldoVcVA0eY/JmfI2YLDLlt2qeZB8AoDZNLHEHo""
  items: (5) [{"-"}, {"-"}, {"-"}, {"-"}, {"-"}]
  kind: "youtube#searchListResponse"
  nextPageToken: "CAUQAA"
  pageInfo: {totalResults: 46980, resultsPerPage: 5}
  regionCode: "US"
  __proto__: Object
}
youtube#searchListResponse

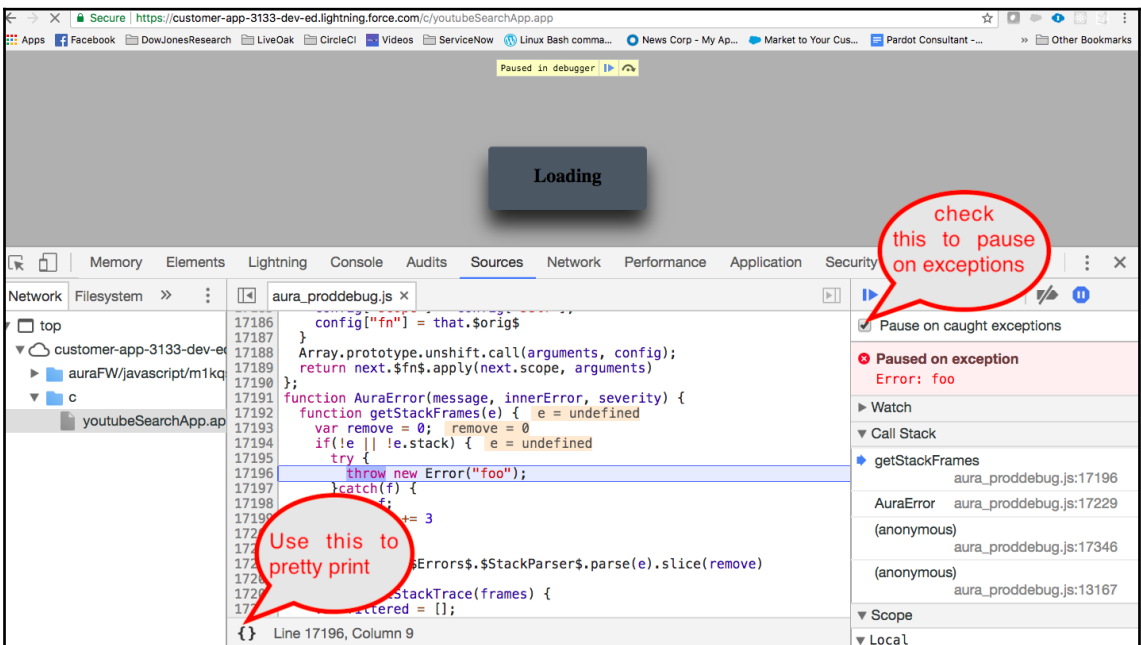
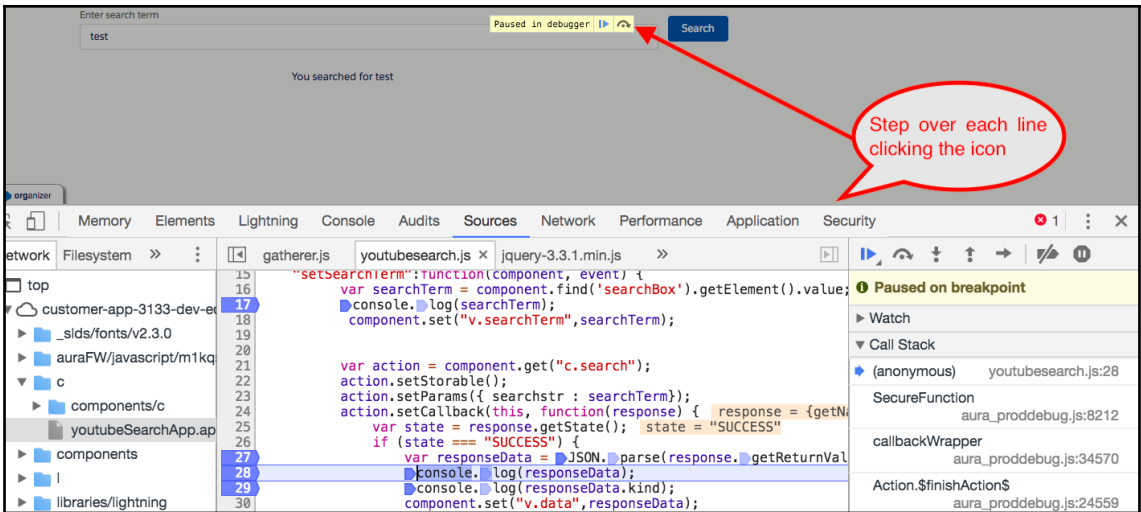
```

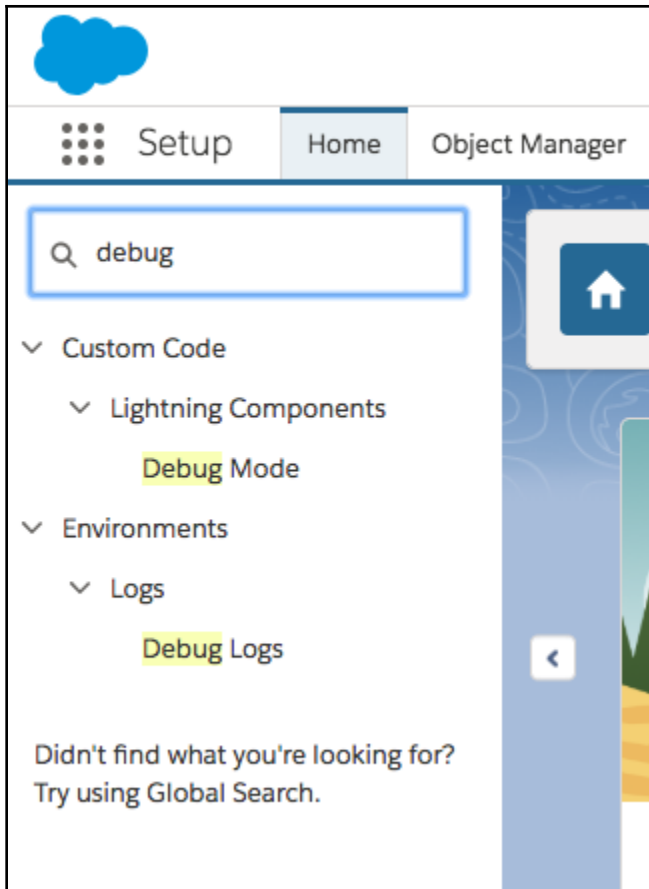
Network Filesystem >> youtubeSearchApp.apex

```

13 },
14 },
15 "setSearchTerm":function(component, event) {
16   var searchTerm = component.find("searchBox").getElement().value;
17   console.log(searchTerm);
18   component.set("v.searchTerm", searchTerm);
19
20
21   var action = component.get("c.search");
22   action.setStorable();
23   action.setParams({ searchstr : searchTerm});
24   action.setCallback(this, function(response) {
25     var state = response.getState();
26     if (state === "SUCCESS") {
27       var responseData = JSON.parse(response.getReturnValue());
28       console.log(responseData);
29       console.log(responseData.kind);
30       component.set("v.data", responseData);
31     }
32     else if (state === "INCOMPLETE") {

```





**SETUP** **Debug Logs**

**New Trace Flag** Help for this Page

To specify the type of information that is included in debug logs, add trace flags and debug levels. Each trace flag includes a debug level, a start time, an end time, and a log type.

Trace flags set logging levels (such as for Database, Workflow, and Validation) for a user, Apex class, or Apex trigger for up to 24 hours.

- Select Automated Process from the drop-down to set a trace flag on the automated process user. The automated process user runs background jobs, such as emailing Chatter invitations.
- Select User from the drop-down to specify a user whose debug logs you would like to monitor and retain.
- Select Apex Class or Apex Trigger from the drop-down to specify the log levels that take precedence while executing a specific Apex class or trigger. Setting class and trigger trace flags doesn't cause logs to be generated or saved. Class and trigger trace flags override other logging levels, including logging levels set by user trace flags, but they don't cause logging to occur. If logging is enabled when classes or triggers execute, logs are generated at the time of execution.

Configure your Debug Levels.

Cancel Save

Traced Entity Type: User

Traced Entity Name: User User

Start Date: 6/9/2018 9:43 PM | 6/9/2018 9:43 PM

Expiration Date: 6/9/2018 10:13 PM | 6/9/2018 9:43 PM

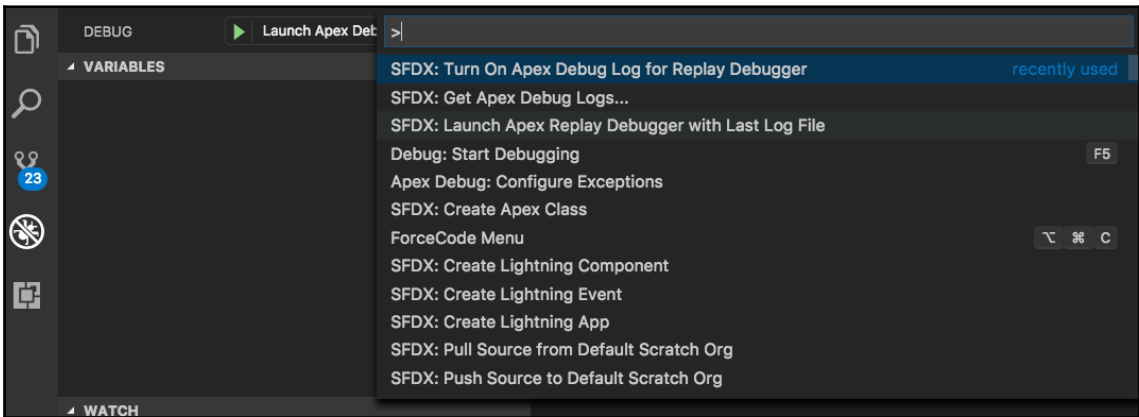
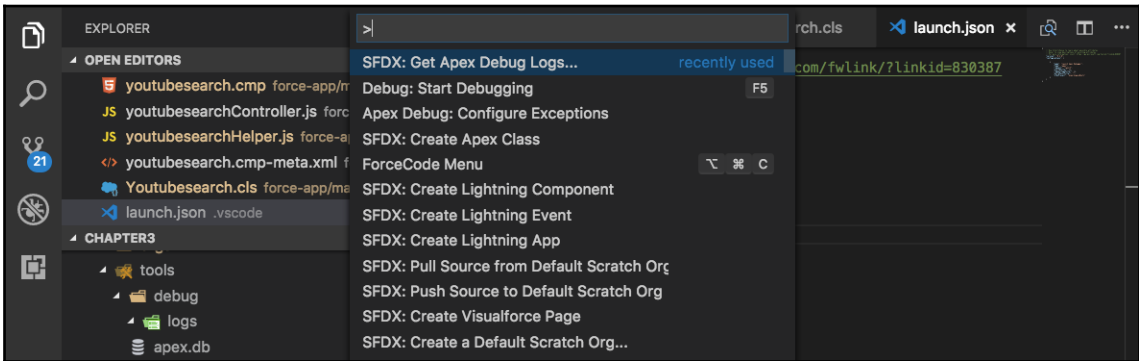
Debug Level: SFDC\_Developer | New Debug Level

Cancel Save

```

20:48:52.0 (395151472)|HEAP_ALLOCATE|[18]|Bytes:5574
20:48:52.0 (395252662)|VARIABLE_SCOPE_BEGIN|[18]|res|System.HttpResponse|true|false
20:48:52.0 (395538460)|VARIABLE_ASSIGNMENT|[18]|res|"System.HttpResponse[Status=OK, StatusCode=200]"|0x53dcb269
20:48:52.0 (395577196)|STATEMENT_EXECUTE|[19]
20:48:52.0 (395594629)|HEAP_ALLOCATE|[19]|Bytes:12
20:48:52.0 (396347315)|HEAP_ALLOCATE|[19]|Bytes:5566
20:48:52.0 (396419795)|HEAP_ALLOCATE|[19]|Bytes:5578
20:48:52.0 (396531130)|USER_DEBUG|[19]|DEBUG|RESULTS...>>>{
  "kind": "youtube#searchListResponse",
  "etag": "\"DuHzAJ-eQIiCIp7p4ldoVcVA0eY/iqZHZAEGo9IpA9kjtGyPbdp73HI\"",
  "nextPageToken": "CAUQAA",
  "regionCode": "US",
  "pageInfo": {
    "totalResults": 1000000,
    "resultsPerPage": 5
  },
  "items": [
    {

```



The Explorer pane on the left shows the project structure for 'Youtubesearch.cls'. The Editor pane on the right displays the following code:

```

5 public static final string youtubesearchURL = 'https://www.googleapis.com/youtube/v
6
7
8 @AuraEnabled
9 public static String search(String searchstr){
10     // Instantiate a new http object
11     Http h = new Http();
12     // Instantiate a new HTTP request, specify the method (GET) as well as the end
13     HttpRequest req = new HttpRequest();
14     String url = youtubesearchURL+'&q=' + EncodingUtil.urlencode(searchstr,'UTF-8')
15     //String url = youtubesearchURL;
16     req.setEndpoint(url);
17     req.setMethod('GET');
18     // Send the request, and return a response
19     HttpResponse res = h.send(req);
20     system.debug('RESULTS...>>>'+res.getBody());
21     return res.getBody();
22     //system.debug('RESULTS...>>>'+YoutubeDataParser.parse(res.getBody()));
23     //return YoutubeDataParser.parse(res.getBody());
24 }
25

```

The Debug Console on the left shows the following variables and watch items:

- Local:**
  - searchstr: 'Dreamforce 2018'
  - h: 'System.Http'
  - req: 'System.HttpRequest[Endpoint=null, Method=nu...'
  - url: 'https://www.googleap (99 more) ...'
  - res
- Static:**
  - key: 'A1zaSyCrnXgSqpn\_Z0WC (19 more) ...'
  - youtubesearchURL: 'https://www.googleap (81 more) ...'
- WATCH:** (Empty)
- CALL STACK:**
  - Youtubesearch.search(String) Youtubesearch.cls 13
  - Aura Unknown Source 0
- BREAKPOINTS:**
  - Youtubesearch.cls force-app/main/default/class... 13
  - Youtubesearch.cls force-app/main/default/class... 18

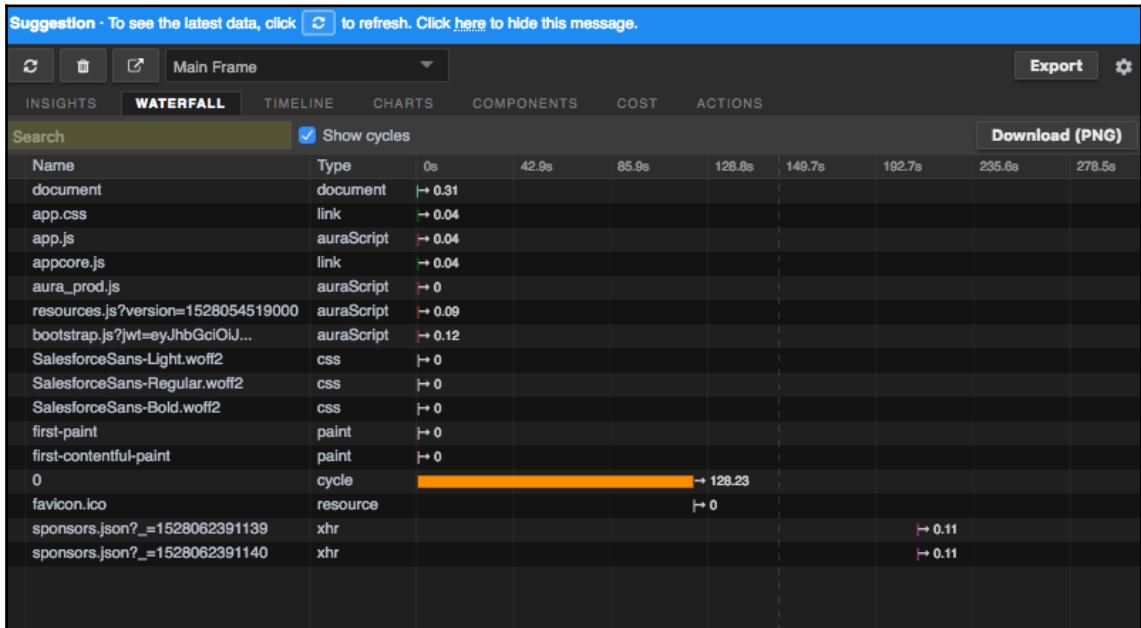
The Editor pane on the right shows the code with a yellow highlight on line 19: `system.debug('RESULTS...>>>'+res.getBody());`. The bottom of the screen shows the Salesforce CLI output:

```

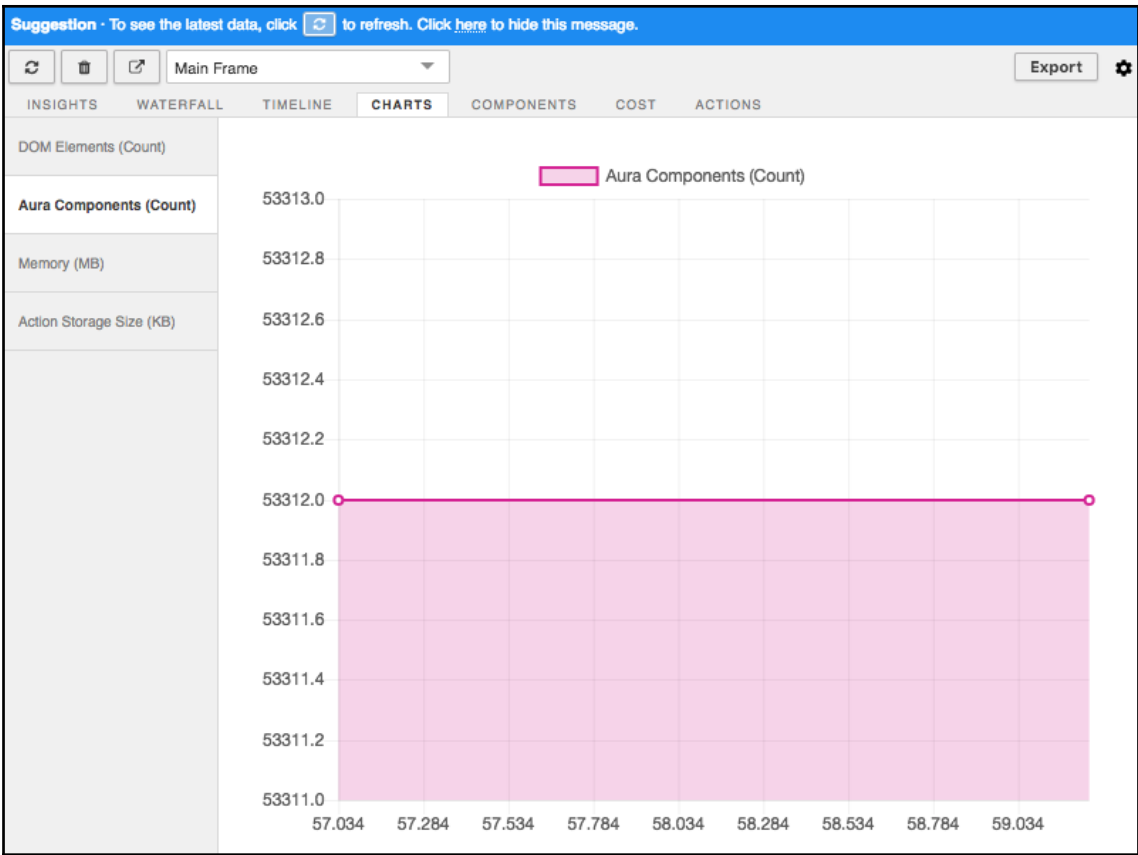
PROBLEMS OUTPUT DEBUG CONSOLE ... Salesforce CLI
sfdx force:data:sql:query --query SELECT id, logtype, startdate, expirationdate, debuglevelid,
debuglevel.apexcode, debuglevel.visualforce FROM TraceFlag WHERE logtype='DEVELOPER_LOG'
--usetoolingapi --json --loglevel fatal ended with exit code 0

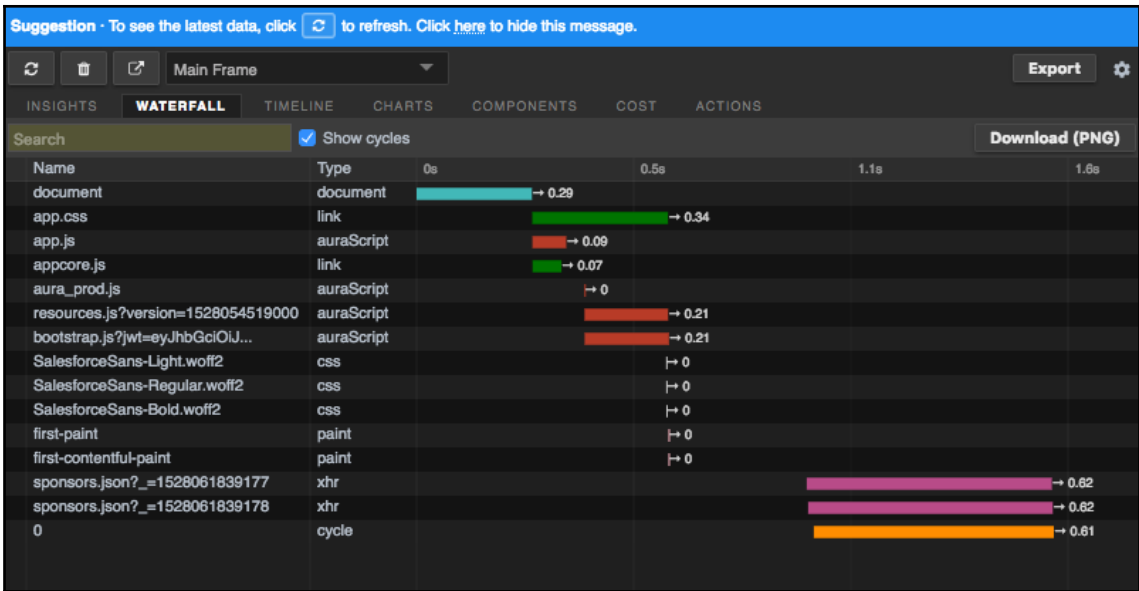
```

# Chapter 9: Performance Tuning Your Lightning Component









### Debug Mode Users [Help for this Page](#)

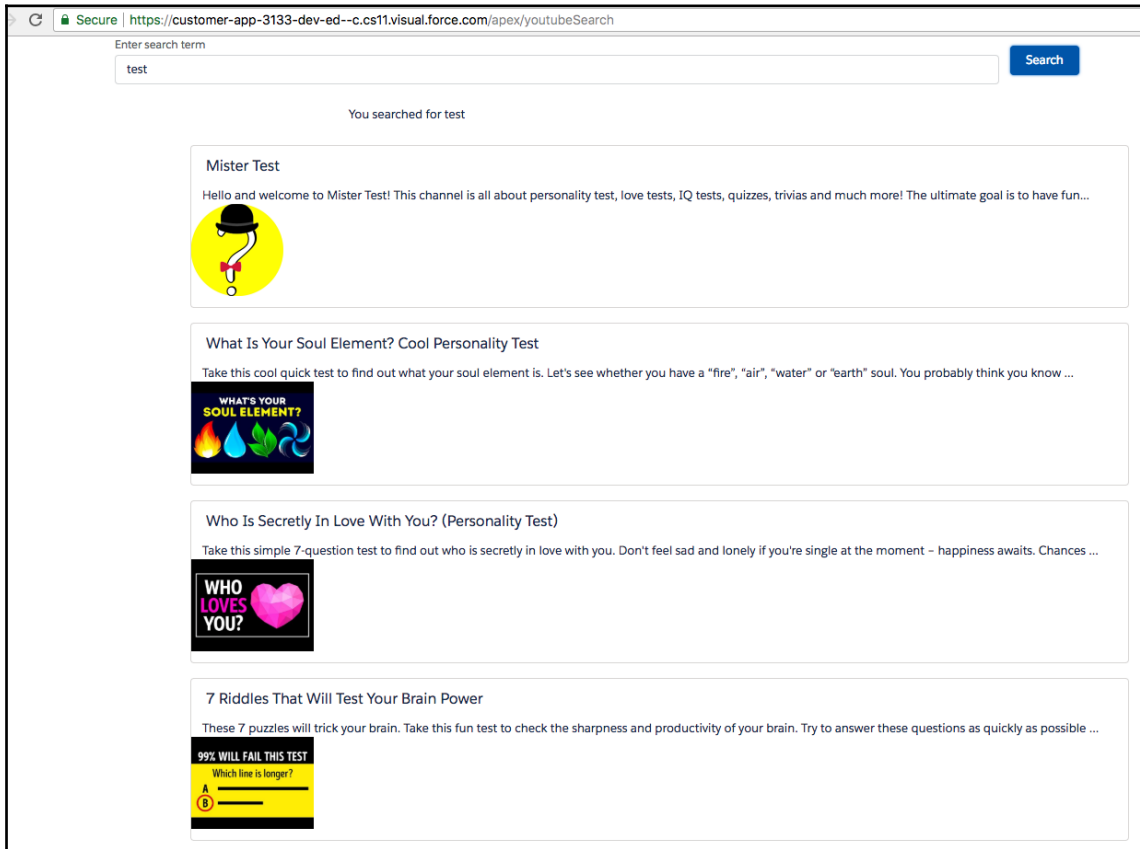
Enable debug mode to make it easier to debug JavaScript code from Lightning components. Only enable debug mode for users who are actively debugging JavaScript. Salesforce is slower for users who have debug mode enabled.

View:  [Create New View](#) <Previous Page | Next Page>

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Other [All](#)

---


# Chapter 10: Taking Lightning Components out of Salesforce Using Lightning Out



Connected App Name **YoutubeSearchApp** Help for this Page ?

[Back to List: Custom Apps](#)

[Edit](#) [Delete](#) [Manage](#)



Version	1.0
API Name	YoutubeSearchApp
Created Date	6/16/2018 11:16 PM
	By: <a href="#">User User</a>
Contact Email	mohith@codescience.com
Contact Phone	4693073326
Last Modified Date	6/17/2018 9:42 AM
	By: <a href="#">User User</a>
Description	
Info URL	

---

**API (Enable OAuth Settings)**

Consumer Key	3MVG9JamK_x9K2Xi99fdzq3yLbGhfn6FEM_8bszwi4XeG1klVrQf1B9tZr8cuTLBgAKi2k.pskZ7JZw0Q	Consumer Secret	<a href="#">Click to reveal</a>
Selected OAuth Scopes	Access your basic information (id, profile, email, address, phone) Access and manage your data (api) Full access (full)	Callback URL	https://infinite-brushlands-64356.herokuapp.com/oauthcallback.html http://localhost:8200/oauthcallback.html https://protected-fortress-46904.herokuapp.com/oauth/_callback
Enable for Device Flow	<input type="checkbox"/>	Require Secret for Web Server Flow	<input checked="" type="checkbox"/>
Token Valid for	0 Hour(s)	Include Custom Attributes	<input type="checkbox"/>
Include Custom Permissions	<input type="checkbox"/>	Enable Single Logout	Single Logout disabled

---

**Custom Connected App Handler**

Apex Plugin Class	
Run As	

---

**Trusted IP Range for OAuth Web server flow** [New](#)

No records to display

```

Mohiths-MacBook-Air:ltngOutApp mohith$ npm run webpack
> ltngoutapp@1.0.0 webpack /Users/mohith/Desktop/ForceProjects/Learning-Salesfor
ce-Lightning-Application-Development/chapter10/ltngOutApp
> webpack

Hash: 072352646ad326181e4e
Version: webpack 4.12.0
Time: 1189ms
Built at: 06/17/2018 4:33:38 PM
    Asset      Size  Chunks             Chunk Names
app.bundle.js 21.1 KiB          0  [emitted]  main
[./app.js] 852 bytes {main} [built]
  + 1 hidden module
Mohiths-MacBook-Air:ltngOutApp mohith$

```

## Whitelisted Origin

Help for this Page ?

To add an origin to the CORS whitelist, enter a URL pattern that identifies the origin.

The URL pattern must include `https://` and a domain name, and may include a port.

The wildcard character (\*) is supported and must be in front of a second-level domain name, for example, `https://*.example.com`.

### CORS Whitelist Origin Edit

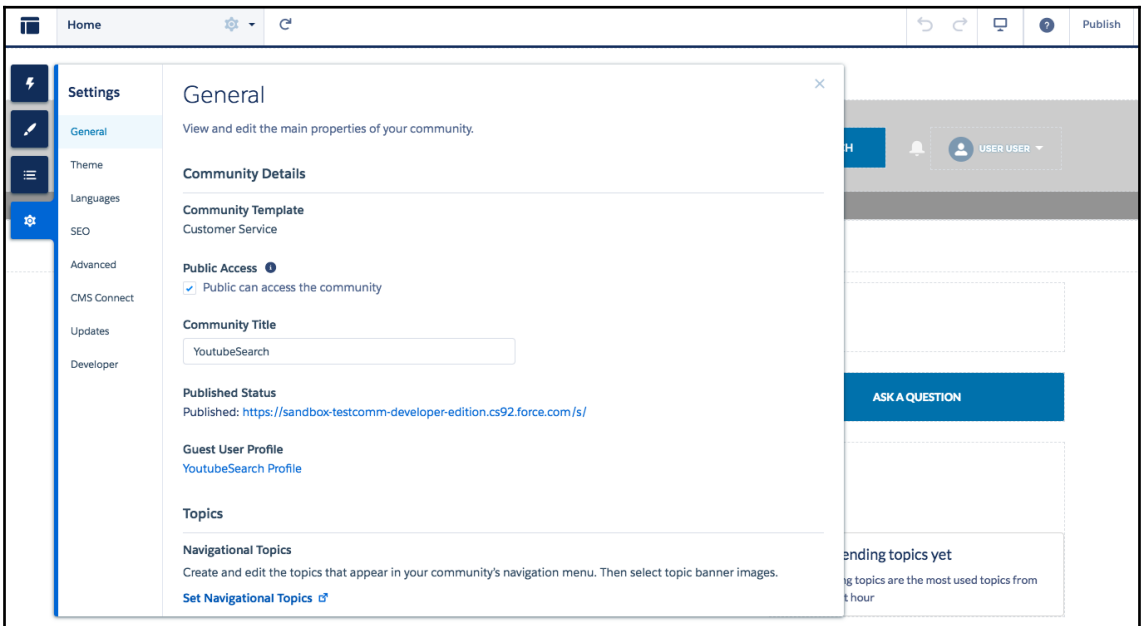
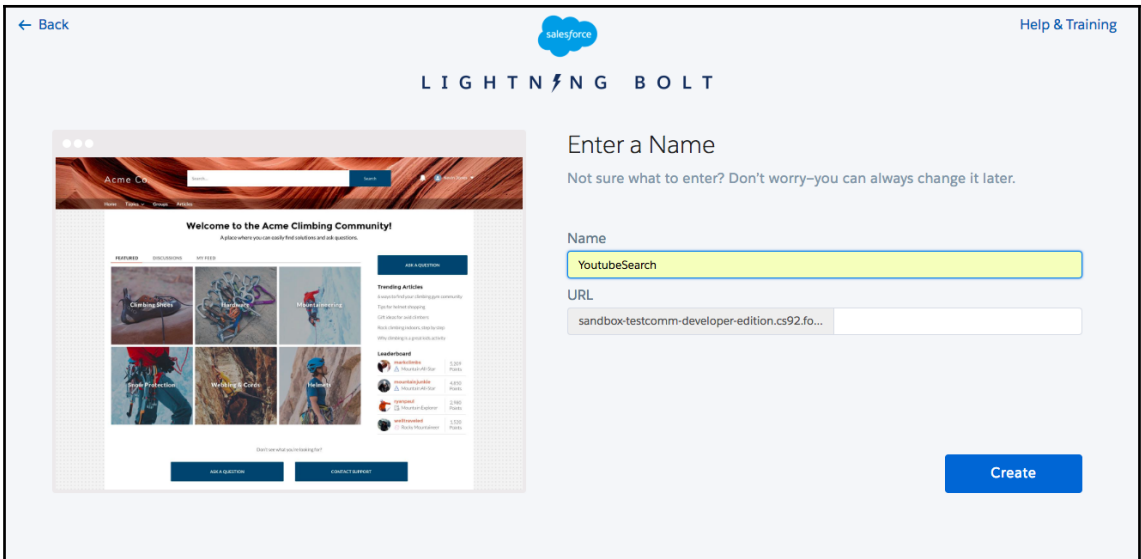
Save Cancel

Origin URL Pattern

Save Cancel

The screenshot shows a web browser window with the address bar displaying `https://infinite-brushlands-64356.herokuapp.com`. The page title is "Lightning Out Youtube Search Component Demo". Below the title is a search bar with the text "Enter search term" and a "Search" button. The search term entered is "Dreamforce 2018". Below the search bar, it says "You searched for Dreamforce 2018". The search results are displayed in a list:

- Dreamforce 2017 Opening Film**  
Every Industrial Revolution has been defined by Trailblazers. As we enter this Fourth Industrial Revolution Salesforce is committed to helping a new age of ...
- Dreamforce '17 Product Keynotes**
- Dreamforce 2017**



---

## Whitelisted Origin

[Help for this Page](#) 

[← Back to List: CORS Whitelist Origins](#)

### CORS Whitelist Origin Detail

[Edit](#) [Delete](#)

Origin URL Pattern [https://afternoon-mesa-67389.herokuapp.com](#)

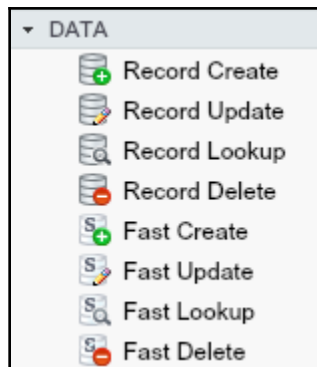
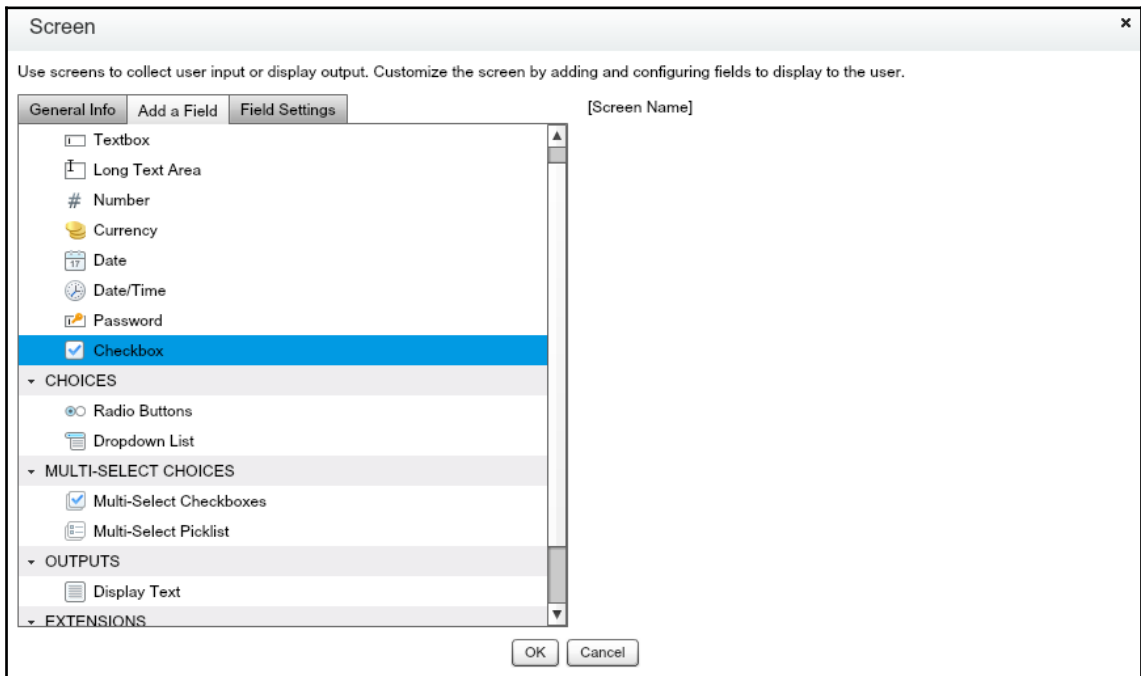
Created By [User User](#), 6/17/2018 2:32 PM

Modified By [User User](#), 6/17/2018 2:32 PM

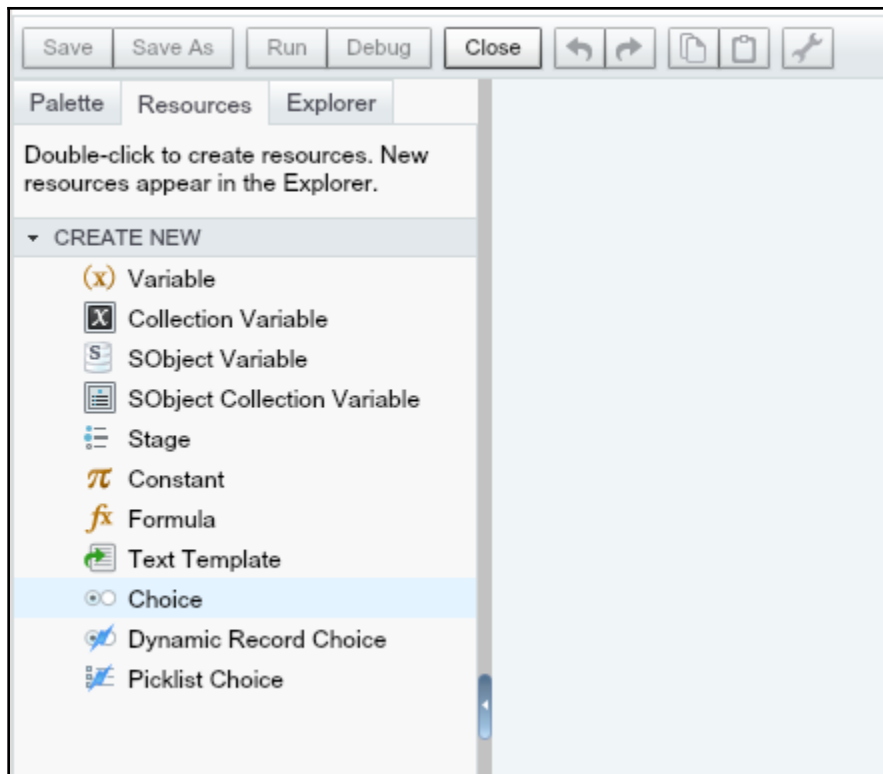
[Edit](#) [Delete](#)

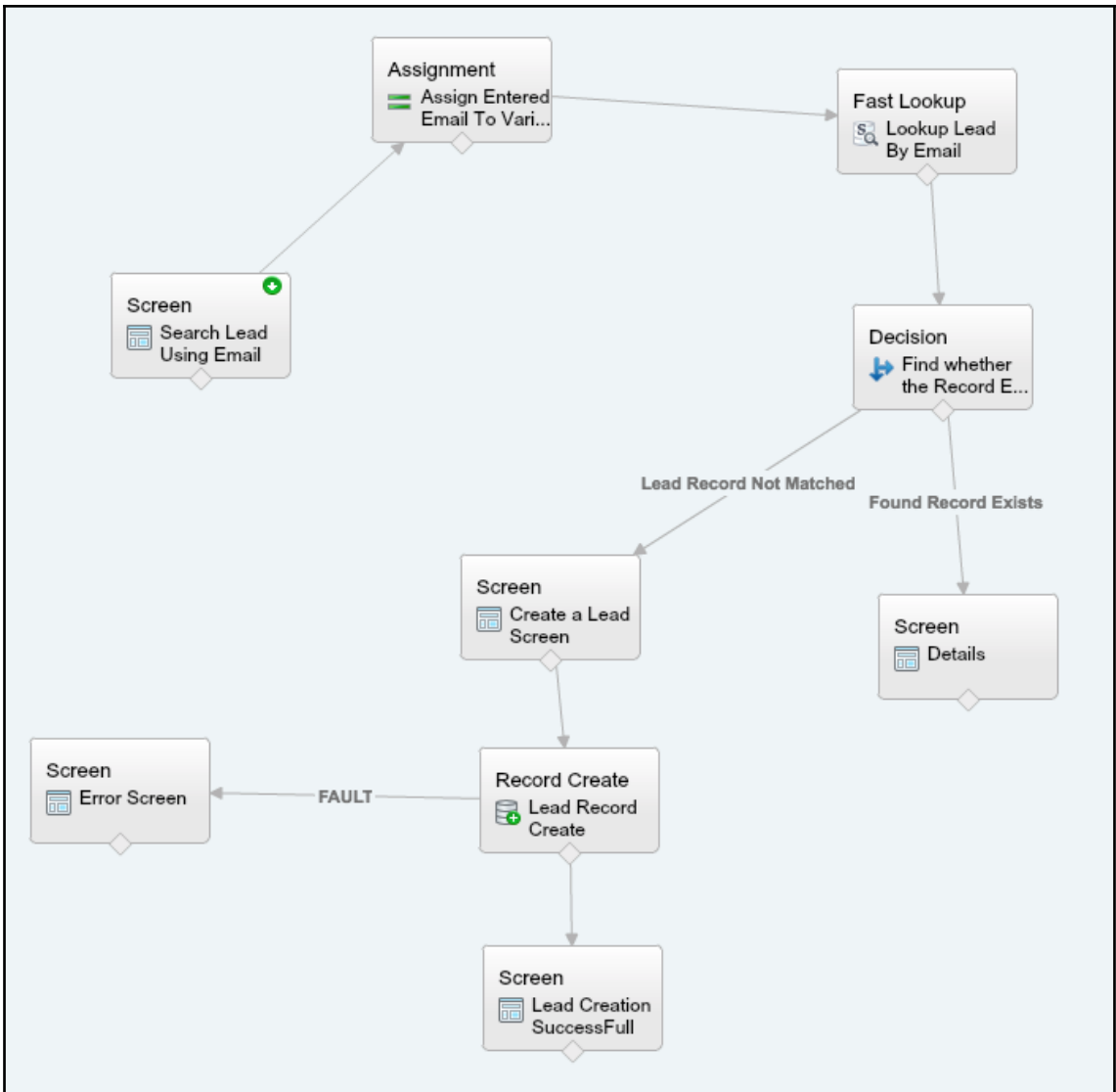
---

# Chapter 11: Lightning Flows









Screen✕

Use screens to collect user input or display output. Customize the screen by adding and configuring fields to display to the user.

General InfoAdd a FieldField SettingsSearch Lead Using Email

▼ General Info

Name \*

Unique Name \*  ⓘ

[Add Description](#)

▼ Header and Footer

If you hide the footer, none of the native navigation buttons appear at runtime. The screen's navigation actions and help text are available to Lightning components on this screen, even when the header or footer are hidden.

Show Header

Show Footer

▼ Navigation Actions

Control which navigation actions are available from this screen. For example, prevent users from navigating backwards after the flow creates records. By default, the actions appear as buttons in the footer at runtime. They're available to Lightning components on this screen, even when the footer is hidden.

**Assignment** ✕

Set or change the values of variables and adjust the order of the assignments. Drag assignments in the list to reorder them.

▼ **General Settings**

Name \*

Unique Name \*  i

[Add Description](#)

▼ **Assignments:**

Variable	Operator	Value
<input type="text" value="{!LeadEmail}"/> ▼	<input type="text" value="equals"/> ▼	<input type="text" value="{!Enter_Email}"/> ▼

[Add Assignment](#)

### Fast Lookup x

Use filters to look up Salesforce records. Assign fields from a single record to an sObject variable or fields from multiple records to an sObject collection variable.

**General Settings**

Name \*

Unique Name \*  i

Add Description

**Filters and Assignments**

Look up \*  that meets the following criteria:

Field	Operator	Value	
<input type="text" value="Email"/>	<input type="text" value="equals"/>	<input type="text" value="{!LeadEmail}"/>	🗑

Add Row

---

Sort results by:

---

Variable \*

### Decision ✕

Configure how users move through the flow by setting up conditions for each decision outcome.

**General Settings**

Name \*

Unique Name \*  i

[Add Description](#)

**Outcomes**

Drag to reorder outcome execution

**EDITABLE OUTCOMES**  
 Found Record Exists  
[Add Outcome](#)

Create an outcome. You can then select it when you draw a connector out from this decision.

Name \*

Unique Name \*  i

Resource	Operator	Value
<input type="text" value="{!Lookup_Lead_By_Email}"/>	<input type="text" value="equals"/>	<input type="text" value="{!\$GlobalConstant.True}"/>

Add Condition |

### Screen ✕

Use screens to collect user input or display output. Customize the screen by adding and configuring fields to display to the user.

General Info   **Add a Field**   Field Settings

even when the router is hidden.

Allow Finish

Allow Previous

Allow Pause i

Paused Confirmation Message i

i

Create a Lead Screen

First Name

Last Name

Email

Company

Phone

Lightning App Builder | Pages | Home Page Default | Back | Help

Desktop | Shrink To View | Refresh | Save | Activation...

Lightning Components

Search components... [Search Icon]

Standard (22)

- App Launcher
- Assistant
- Chatter Feed
- Chatter Publisher
- Dashboard
- Flow
- Items to Approve
- Key Deals
- List View
- Paused Flow Interviews
- Performance
- Quip
- Recent Items
- Recent Records
- Recommendations
- Report Chart
- Rich Text

Flow Component: Lead Finder App

This is a placeholder. Please don't run in the canvas.

Assistant

New lead assigned to you today  
Mohit Shrivastava

Page > Flow

Flows don't run in the canvas so that they don't accidentally do something in your org, like create or delete records.

\* Flow

Lead Finder App

Layout

One Column

Set Component Visibility

Filters

+ Add Filter

Quarterly Performance

CLOSED 50 OPEN (>70%) 50 GOAL --

As of Today 11:13:31 PM

Add the opportunities you're working on, then come back here to view your performance.

Today's Events

Looks like you're free and clear the rest of the day.

View Calendar

Today's Tasks

Nothing due today. Be a go-getter, and check back soon.

View All

Recent Records

Key Deals - Recent Opportunities

No deals yet. Select another filter or check back later.

All | Search Salesforce

Sales | Home | Chatter | Opportunities | Leads | Tasks | Files | Accounts | Contacts | Campaigns | Dashboards | Reports | Groups | More

Lead Finder App

\* Enter Lead Email

[Input Field]

Next

Assistant

New lead assigned to you today  
Mohit Shrivastava

Quarterly Performance

CLOSED 50 OPEN (>70%) 50 GOAL --

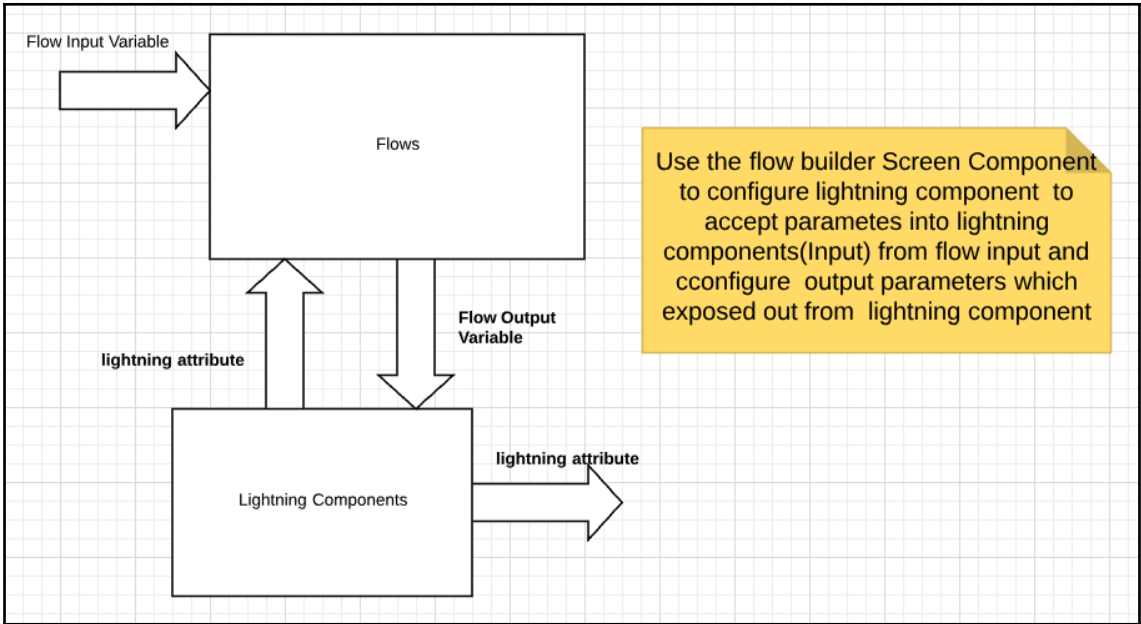
As of Today 11:14:56 PM

50k  
40k  
30k  
20k  
10k  
0

Apr May Jun

Closed Goal Closed + Open (>70%)

Add the opportunities you're working on, then come back here to view your performance.



Screen

Use screens to collect user input or display output. Customize the screen by adding and configuring fields to display to the user.

General Info Add a Field Field Settings

Unique Name \* Lead\_Edit\_Component

Lightning Component c:LeadEditForm

Inputs Outputs

Set the component attributes using values from your flow.

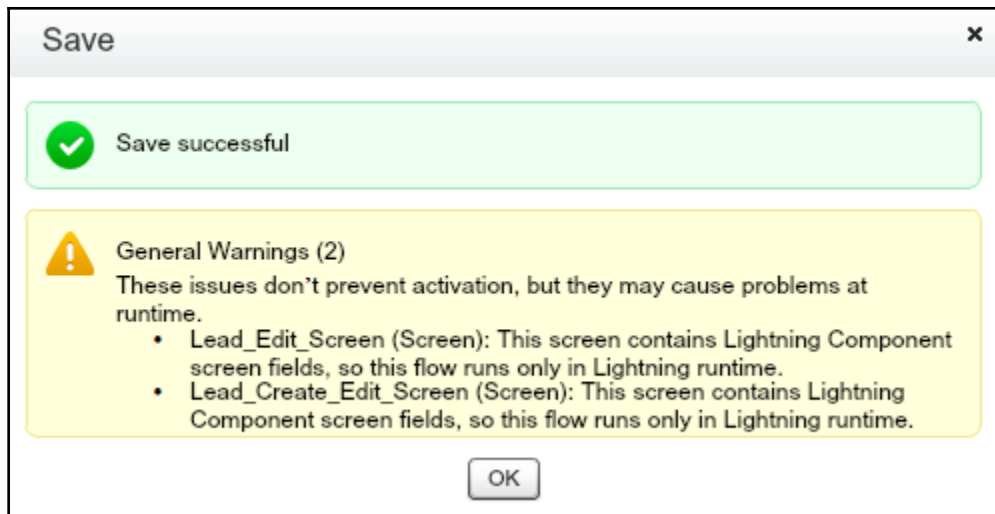
Attribute	Value
leadId	{!Id}
-- Select Attribute --	
leadId	

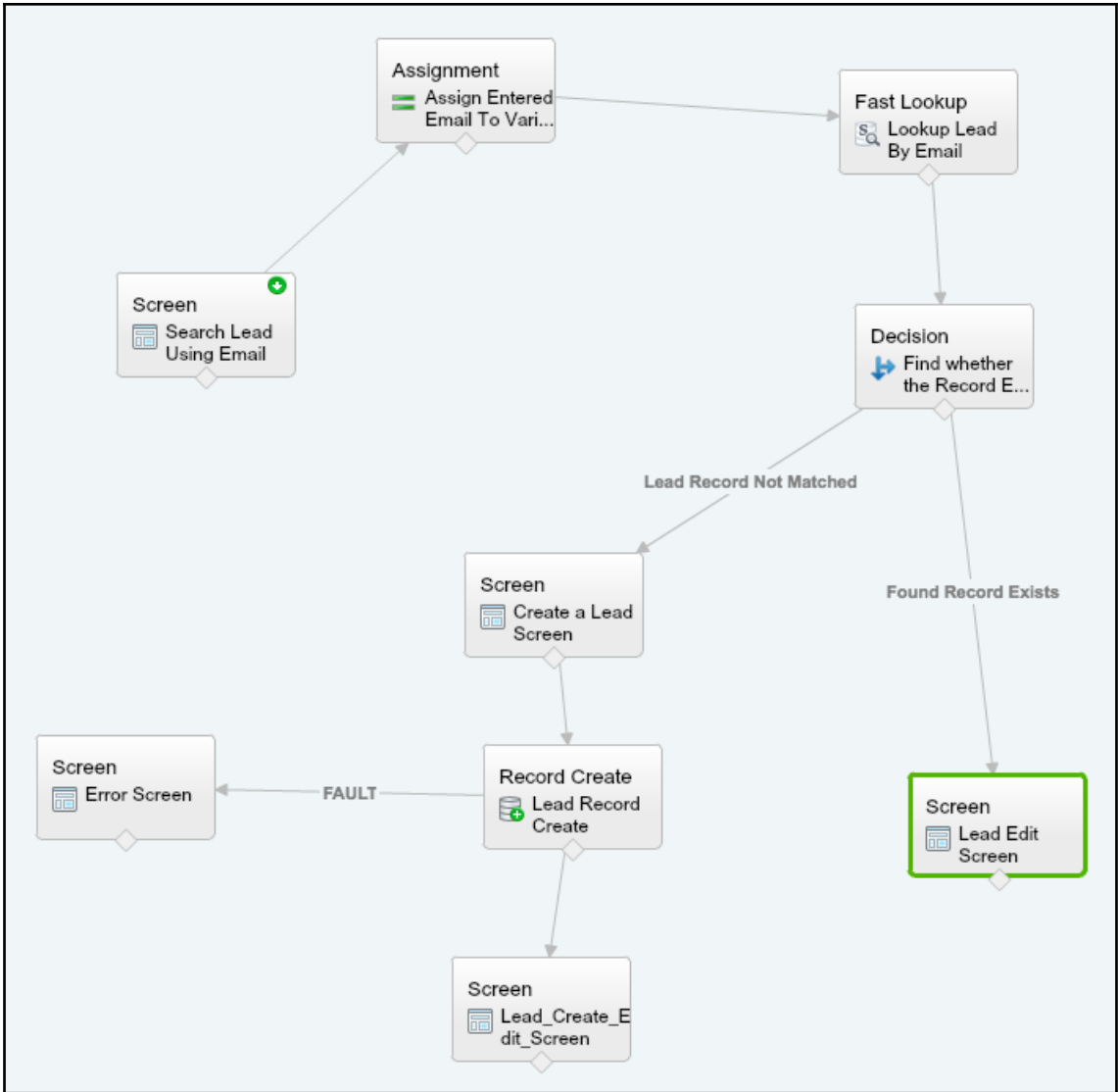
Lead Edit Screen

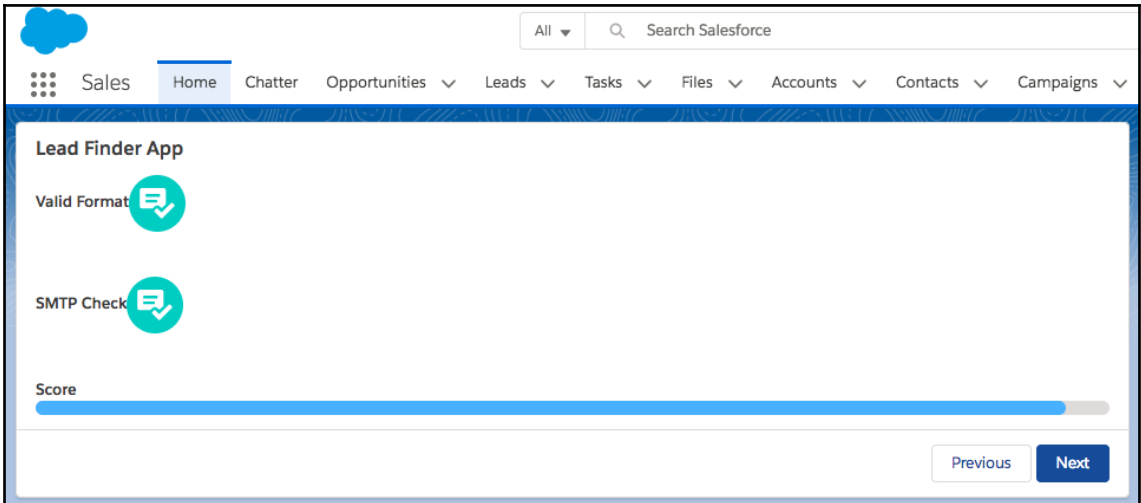
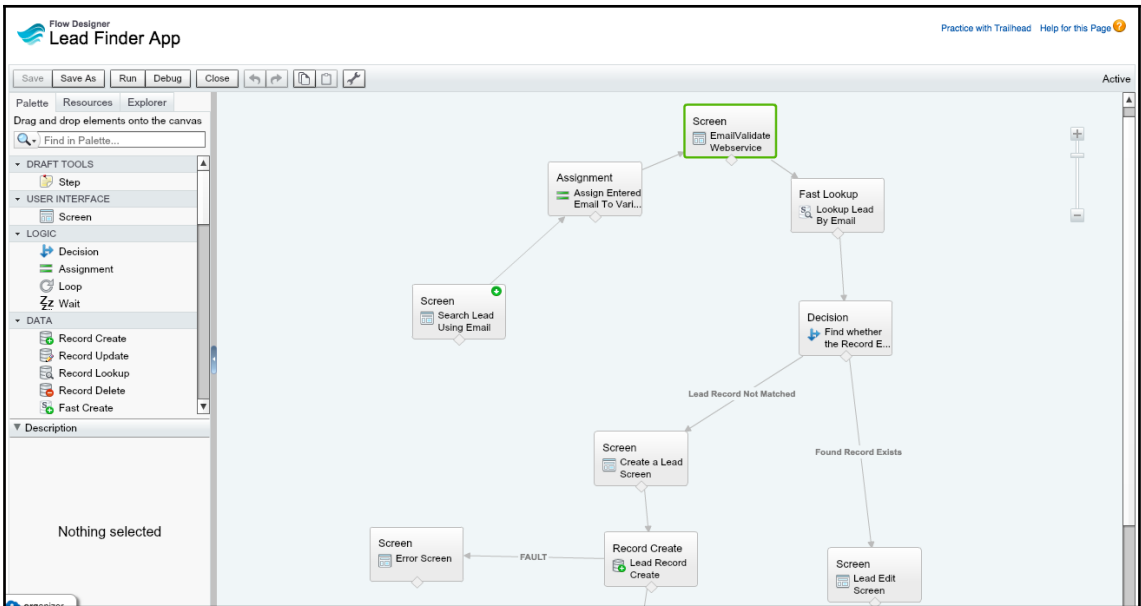
Lead\_Edit\_Component

OK Cancel





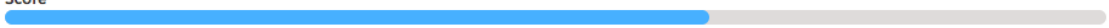


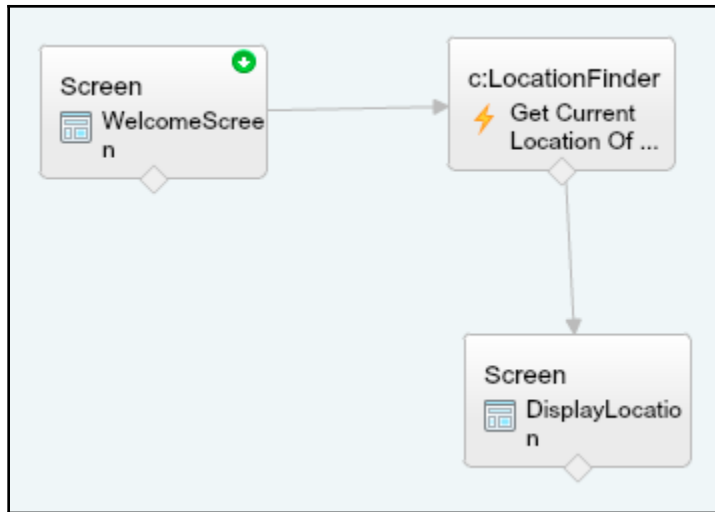




---

General Info	Add a Field	Field Settings
Name * <input type="text" value="EmailValidateWebservice"/>		
Unique Name * <input type="text" value="EmailValidateWebservice"/> <a href="#">i</a>		
<a href="#">Add Description</a>		
<b>▼ Header and Footer</b>		
<p>If you hide the footer, none of the native navigation buttons appear at runtime. The screen's navigation actions and help text are available to Lightning components on this screen, even when the header or footer are hidden.</p>		
<input checked="" type="checkbox"/> Show Header		
<input type="checkbox"/> Show Footer		

<b>Lead Finder App</b>	
Valid Format	
SMTP Check	
Score	
<a href="#">Previous</a>	<a href="#">Next</a>



c:LocationFinder x

Action name: c:LocationFinder

Description:

▼ General Settings

Name \*

Unique Name \*  i

[Add Description](#)

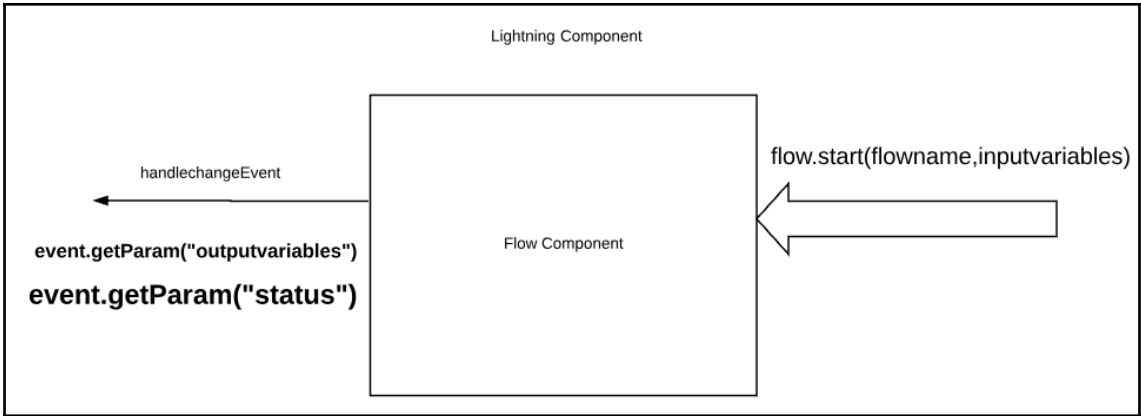
▼ Inputs/Outputs

**Inputs** **Outputs**

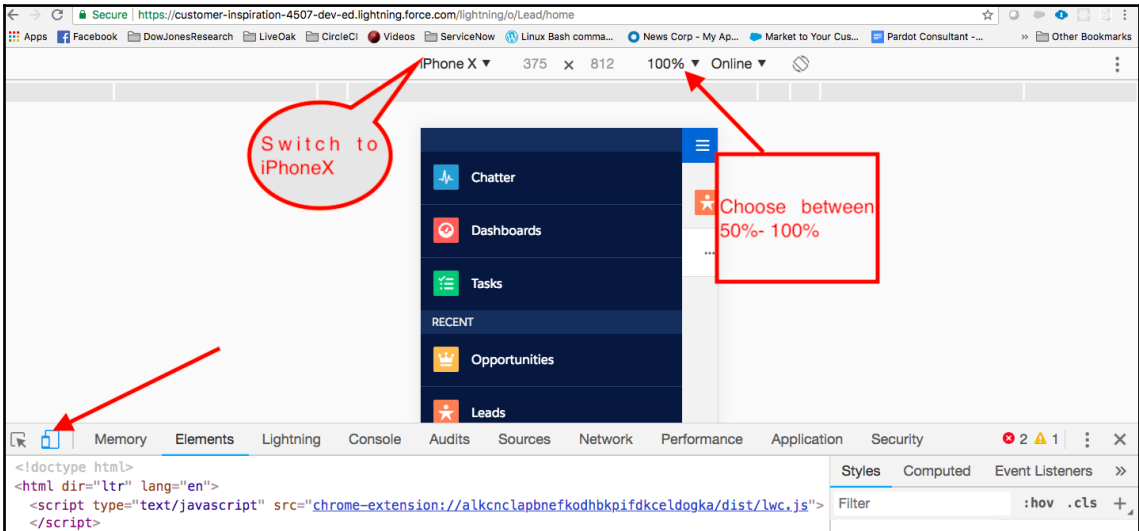
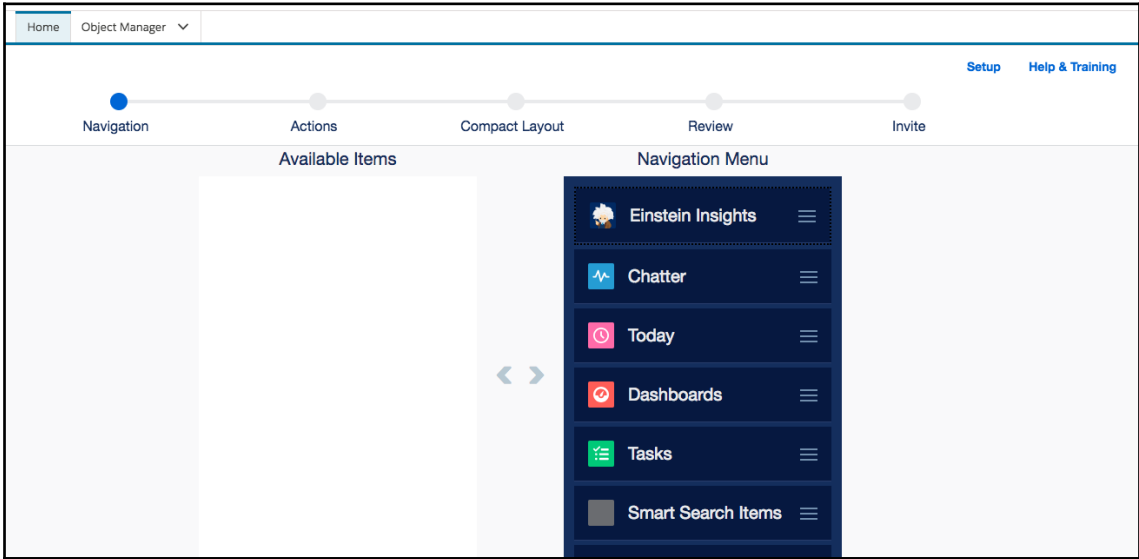
Assign the action's outputs to variables to reference them in your flow

Source	Target	
<input type="text" value="Latitude"/>	<input type="text" value="{!Latitude}"/>	
<input type="text" value="Longitude"/>	<input type="text" value="{!Longitude}"/>	

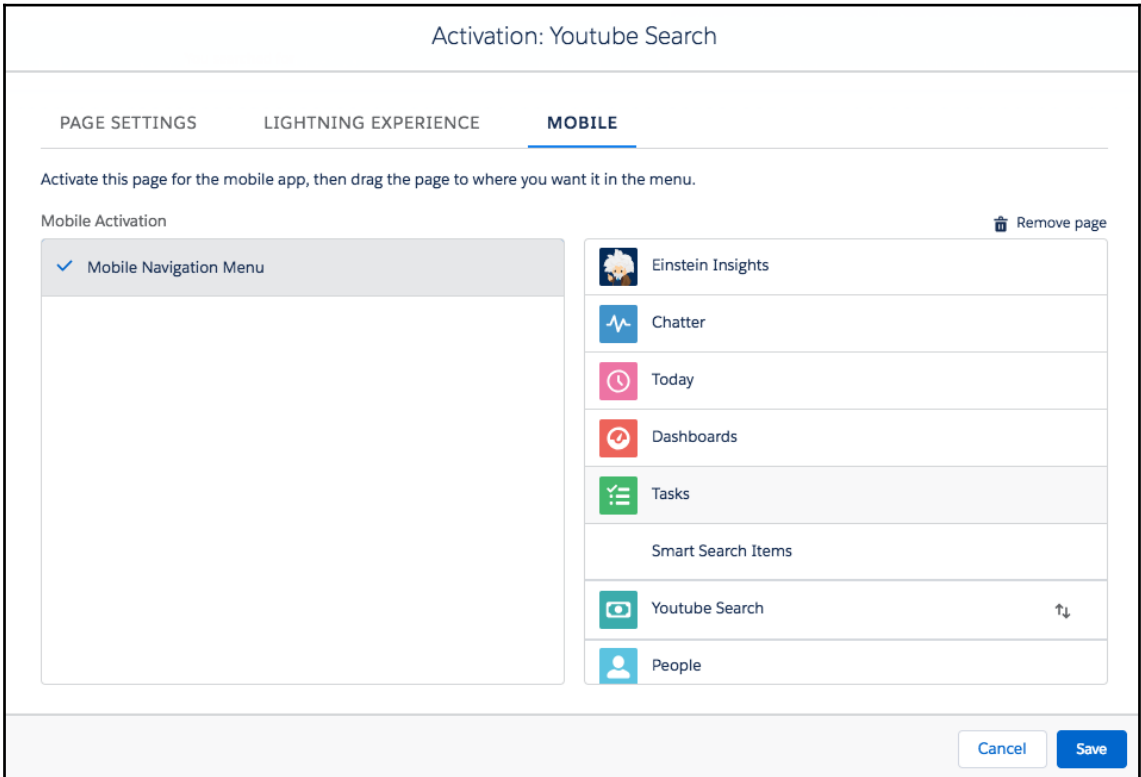
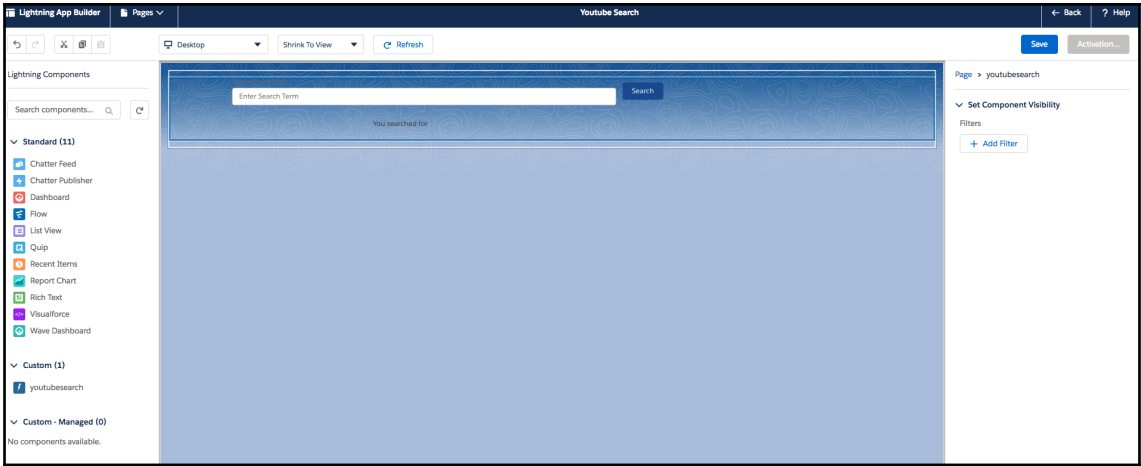
[Add Row](#)

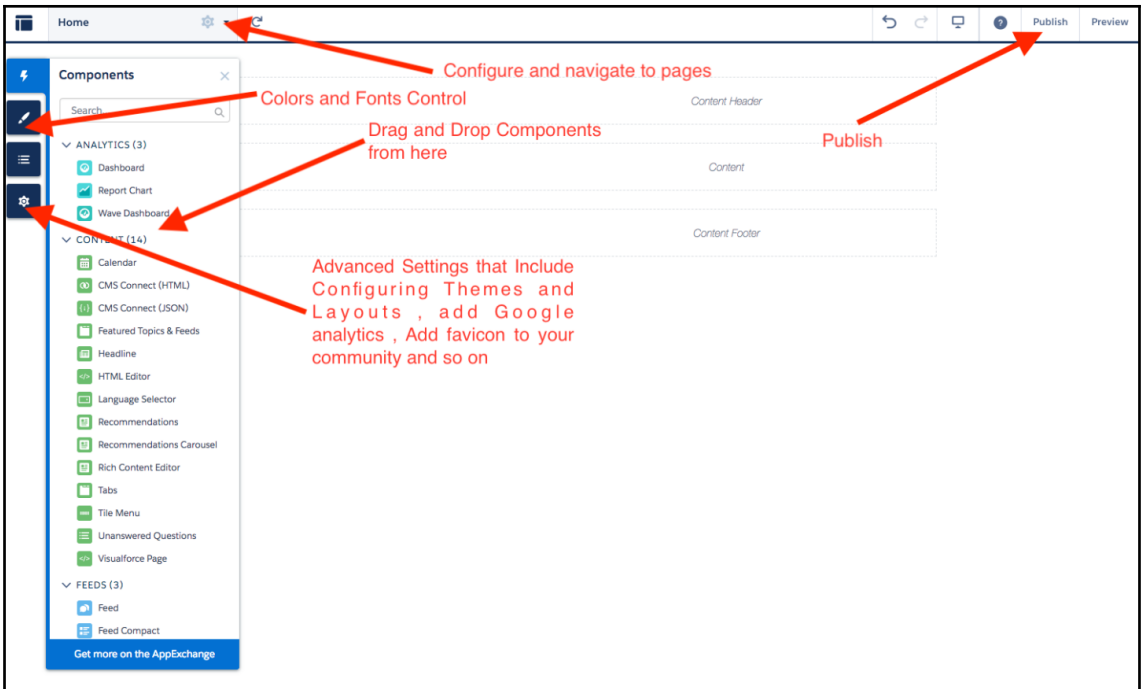


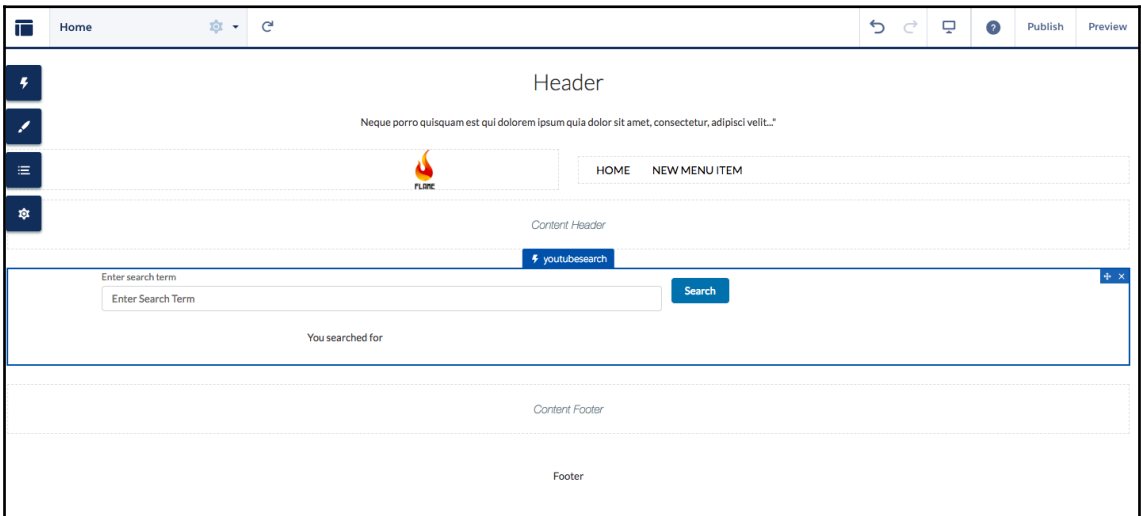
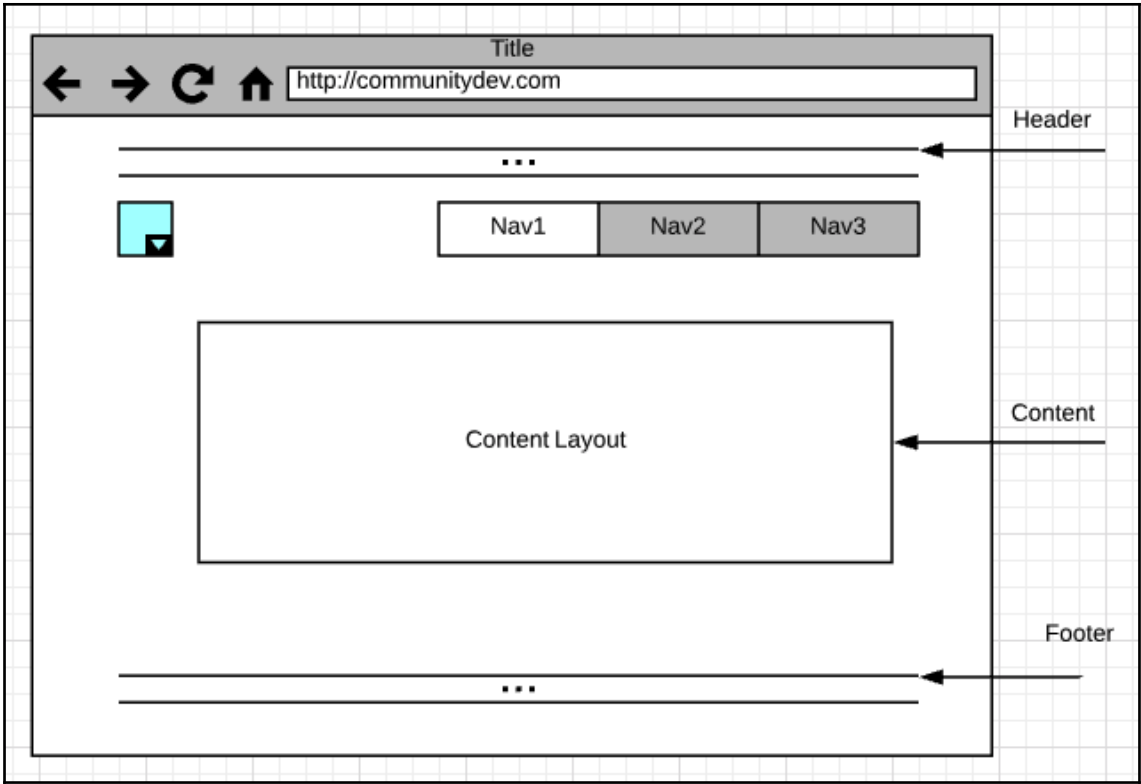
# Chapter 12: Making Components Available for Salesforce Mobile and Communities

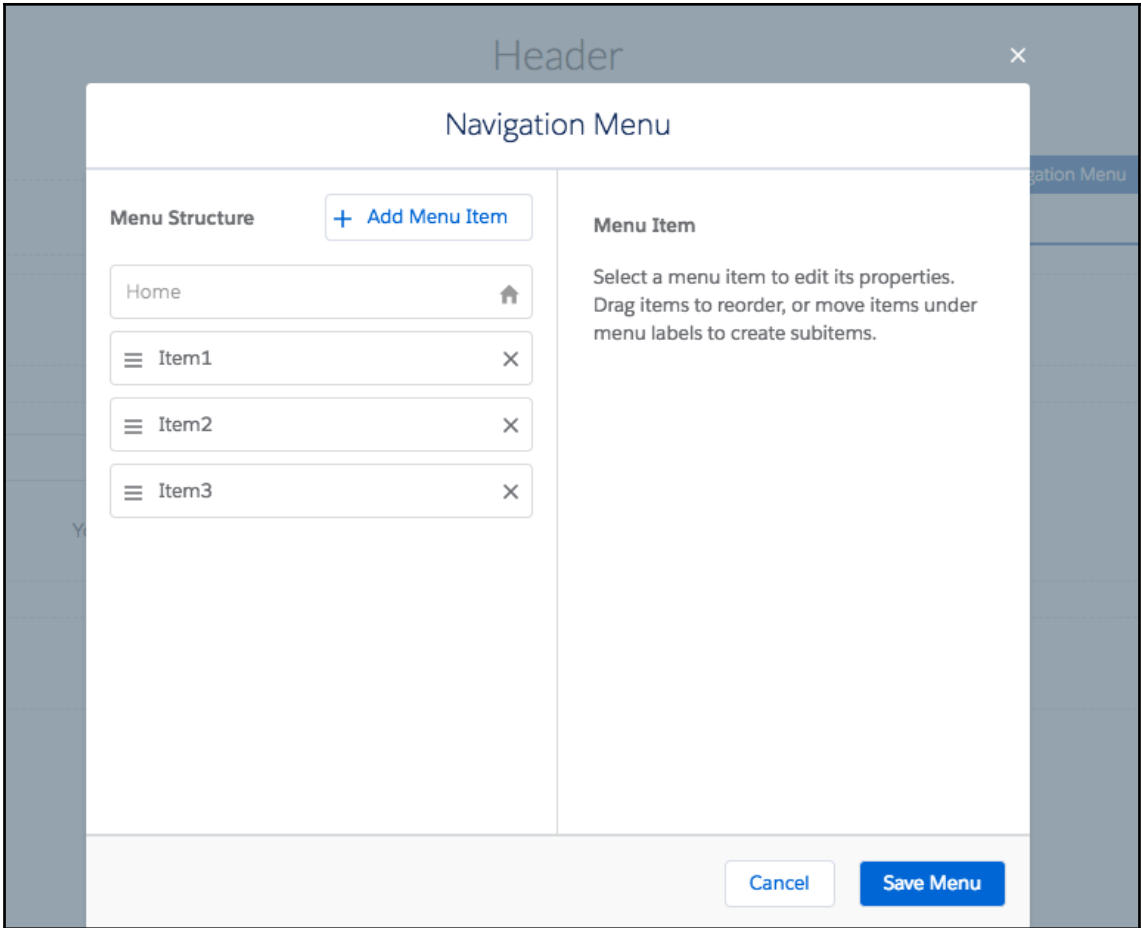












---

# Header

Neque porro quisquam est qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit..."



[HOME](#)   [ITEM1](#)   [ITEM2](#)   [ITEM3](#)

Enter search term

Search

You searched for Dreamforce

## Dreamforce '17 Product Keynotes



## Dreamforce 2017 Opening Film

Every Industrial Revolution has been defined by Trailblazers. As we enter this Fourth Industrial Revolution Salesforce is committed to helping a new age of ...



## Dreamforce Video

Dreamforce '16 - October 4-7, 2016.



## New Page

Choose a blank content layout that defines the regions of your page.

1 full-width column

2 columns, 1:2 ratio

2 columns, 1:1 ratio

2 columns, 2:1 ratio

2 columns, 2:1 ratio, split sidebar

3 columns, 1:1:2 ratio

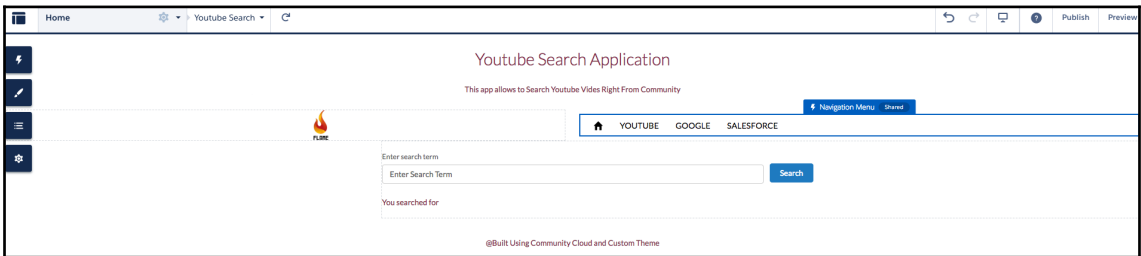
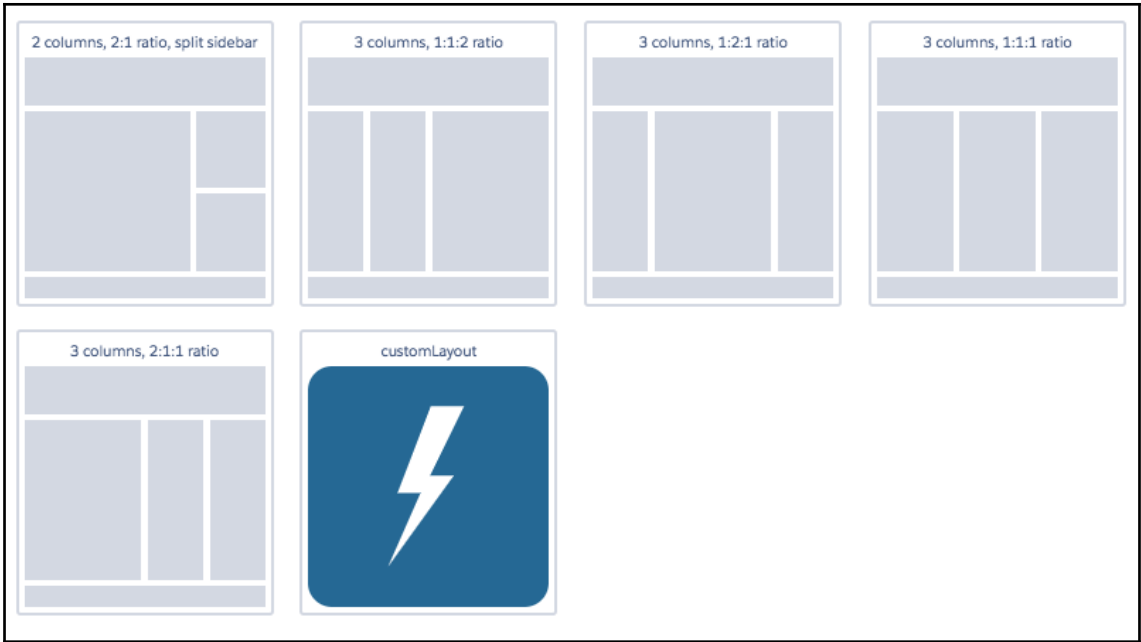
3 columns, 1:2:1 ratio

3 columns, 1:1:1 ratio

3 columns, 2:1:1 ratio

[← Back](#) [Next](#)

Layout



# Settings

- General
- Theme
- Languages
- SEO
- Advanced
- CMS Connect
- Updates
- Developer

## Theme

Manage your themes or select a new one.

MANAGE **CONFIGURE**

### Theme Layouts

NAME	THEME LAYOUT COMPONENT	PAGES ASSIGNED
Default	Starter Template	8
Search Component		
	Global Search Box	
User Profile Component		
	User Profile Menu	
Login	Login Body Layout	5

New Theme Layout Navigation Menu



---

## Chapter 13: Lightning Navigation and Lightning Console APIs

LIGHTNING NAVIGATION COMPONENT DEMO

[Navigate to Account Home](#)

[Navigate to Demo Component](#)

Enter AccountId Here

[Navigate To Record Detail](#)

Enter CaseId Linked To RecordId Here

[Navigate To Related Detail](#)

# New Lightning App

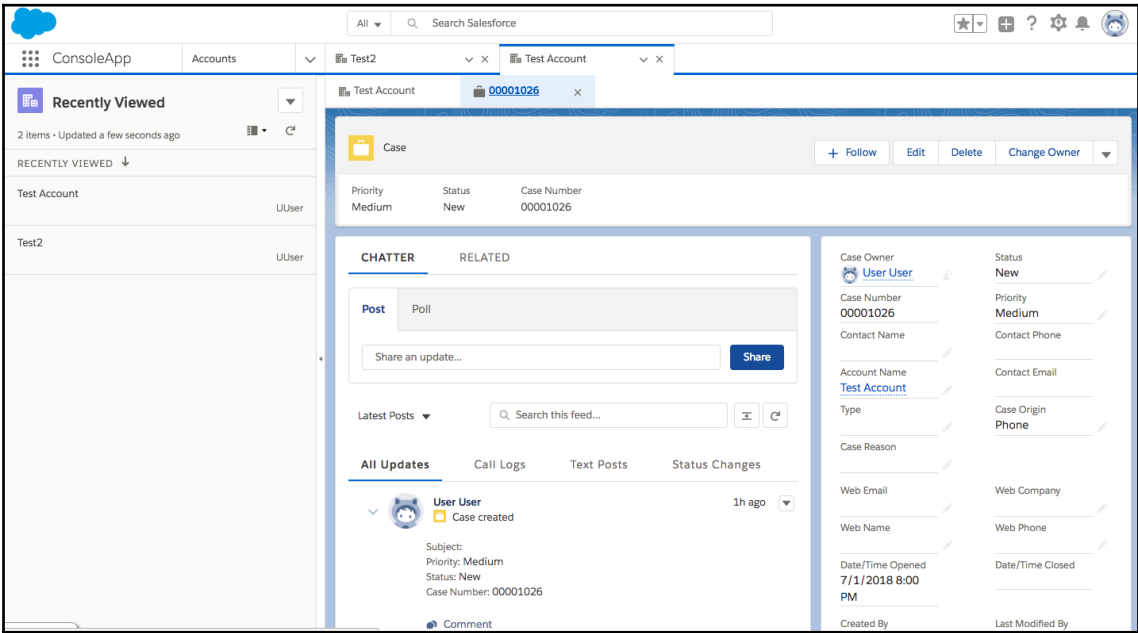
## App Options

### App Navigation

Standard navigation shows items in a navigation bar at the top of the page. Console navigation shows a list of records in a sidebar and opens each record in a new workspace tab.

#### Navigation Style

- Standard navigation
- Console navigation



Lightning App Builder | App Settings | Pages | ConsoleApp

APP SETTINGS

- App Details & Branding
- App Options
- Utility Bar**
- Select Items
- Navigation Rules
- Assign to User Profiles
- App Performance (BETA)

### Utility Bar

Give your users quick access to common productivity tools.

Utility Bar Items Add

Search...

- Visualforce
- Wave Dashboard
- Custom (3)**
  - demoComponent
  - navigationComponentDemo
  - utilityBarComponentDemo
- Custom - Managed (0)**

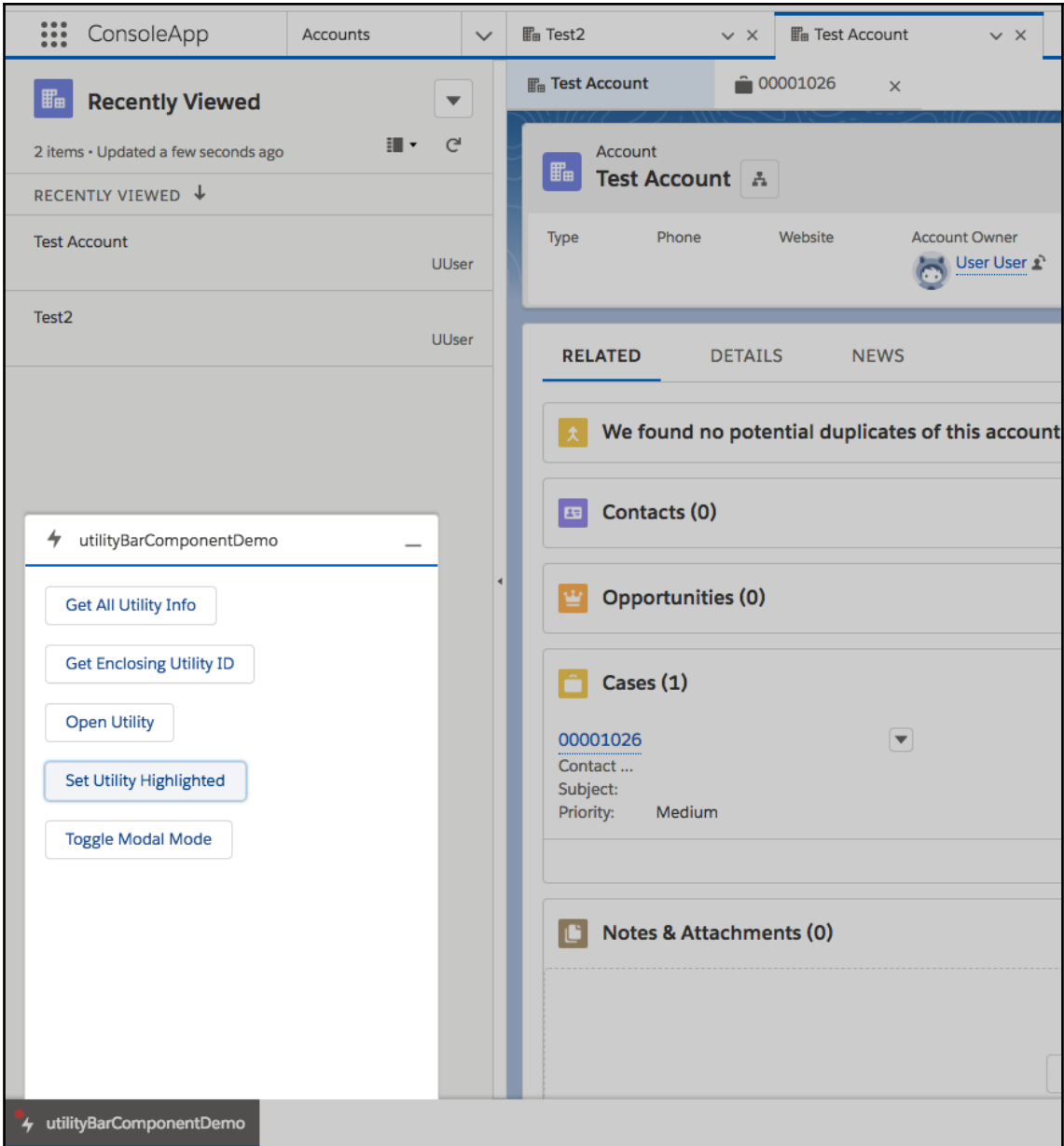
No components available.

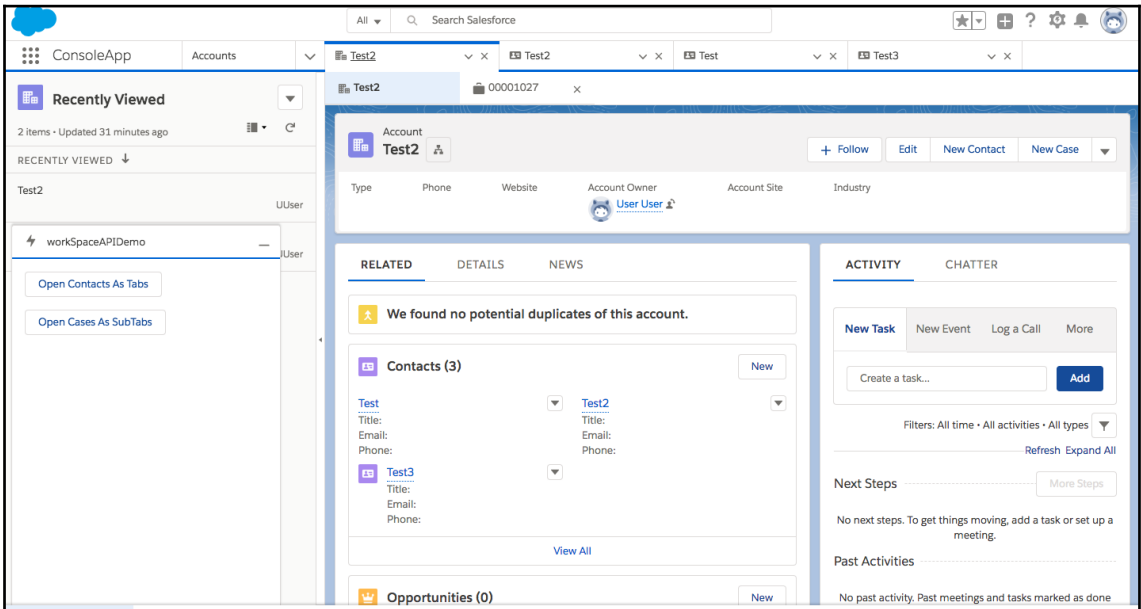
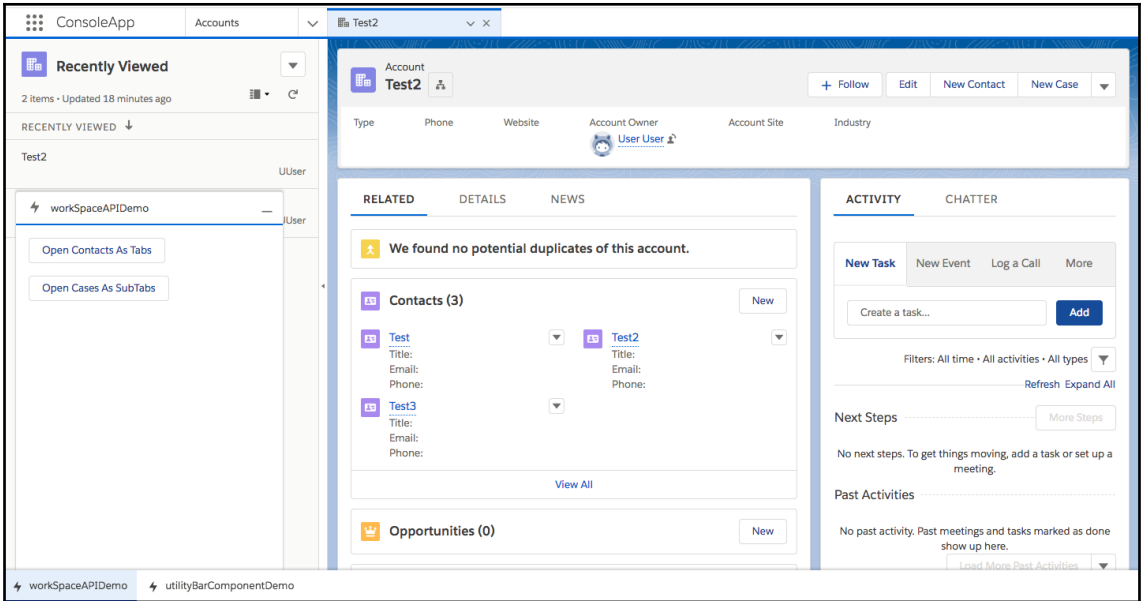
PROPERTIES

utilityBarComponentDemo ↑ ↓ Remove

**Utility Item Properties**

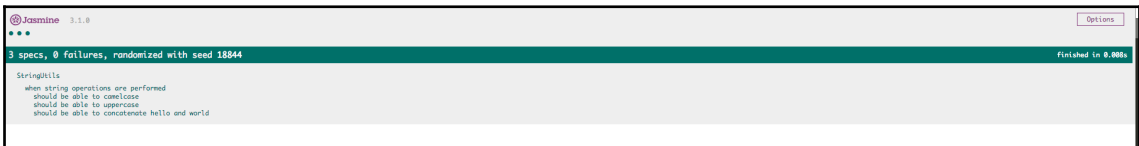
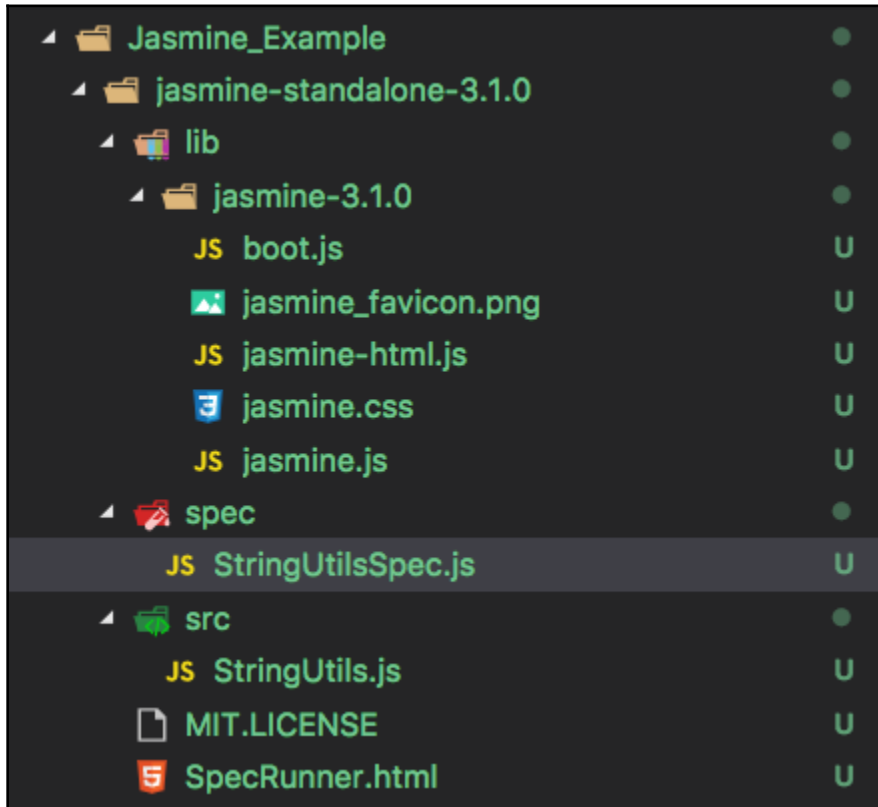
- Label**  
utilityBarComponentDemo
- Icon**  
⚡ fallback ×
- Panel Width**  
340
- Panel Height**  
480
- Load in background when app opens**





---

# Chapter 14: Unit Testing Lightning Components



```
Jasmine 3.1.0
3 specs, 1 failure, randomized with seed 85133
Spec List | Failures
StringUtils > when string operations are performed > should be able to uppercase
Expected Function to equal 'HELLO'.
Error: Expected Function to equal 'HELLO'.
    at <Jasmine>
    at UserContext.<anonymous> (file:///Users/mohith/Desktop/ForceProjects/Learning-Salesforce-Lightning-Application-Development/Chapter14/Jasmine_Example/jasmine-standalone-3.1.0/spec/StringUtilsSpec.js:23:41)
    at <Jasmine>
```

```
=== Test Summary
NAME                               VALUE
-----
Outcome                            Passed
Tests Ran                          18
Passing                             17
Failing                             0
Skipped                             1
Pass Rate                          100%
Fail Rate                           0%
Test Start Time                     Jul 5, 2018 12:00 AM
Test Execution Time                  5873 ms
Test Total Time                      5873 ms
Command Time                        17389 ms
Hostname                            https://velocity-dream-7831-dev-ed.cs40.my.salesforce.com
Org Id                              00D540000009LcgEAE
Username                            test-gn92qttmj826@example.com

Test run complete
```

```
Jasmine 2.6.1
1 spec, 0 failures
Finished in 0.227s
YoutubeSearchAppTest
A suite that tests youtube search component functionality
  @youtubeSearch
  verify component rendering for search test
```

---

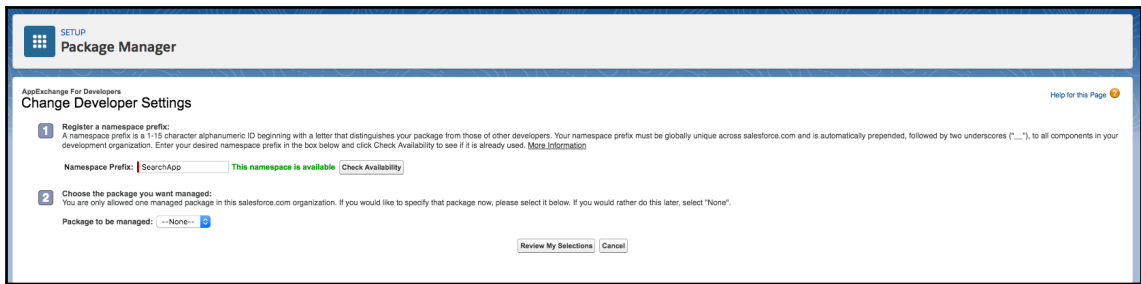
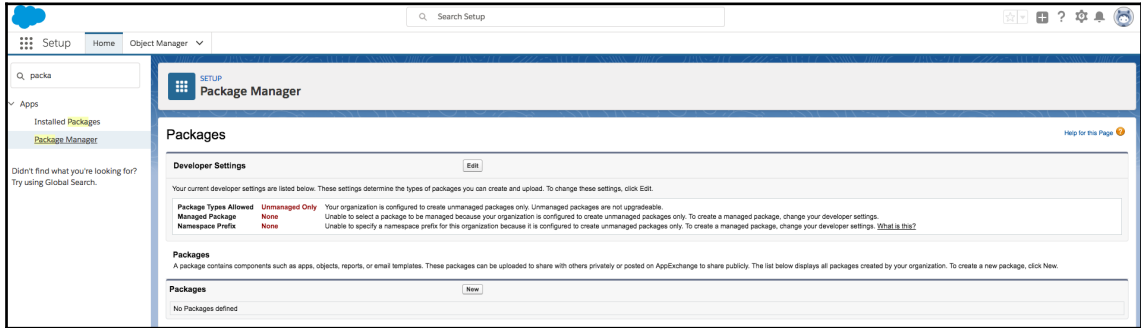
=== Test Summary


NAME	VALUE
Outcome	Passed
Tests Ran	2
Passing	2
Failing	0
Skipped	0
Pass Rate	100%
Fail Rate	0%
Test Start Time	Jul 5, 2018 11:07 PM
Test Execution Time	223 ms
Test Total Time	223 ms
Command Time	10675 ms
Hostname	https://velocity-dream-7831-dev-ed.cs40.my.salesforce.com
Org Id	00D540000009LcgEAE
Username	test-gn92qttmj826@example.com

Test run complete




# Chapter 15: Publishing Lightning Components on AppExchange





salesforce  '18

Home Environment Hub Scratch Org Infos Active Scratch Orgs **Namespace Registries** +

Create New...  All Namespace Registries


Shortcut

 [Unresolved Items](#)




Number ↑ Namespace


No records to display.


salesforce  '18   [Switch to Lightning Experience](#) Mohith Shrivastava ▾

Home Environment Hub Scratch Org Infos Active Scratch Orgs **Namespace Registries** +

Create New...  All Namespace Registries

Shortcut

 [Unresolved Items](#)



Action	Number ↑	Namespace Prefix	Created Date	Created By
<input type="checkbox"/> Edit   Del	00000001	SearchApp	7/7/2018 4:35 PM	msahi

Apex Class

### Test

[Back to List: Apex Classes](#)

**Apex Class Detail**

Name	Namespace Prefix	Status
Test	SearchApp	Active

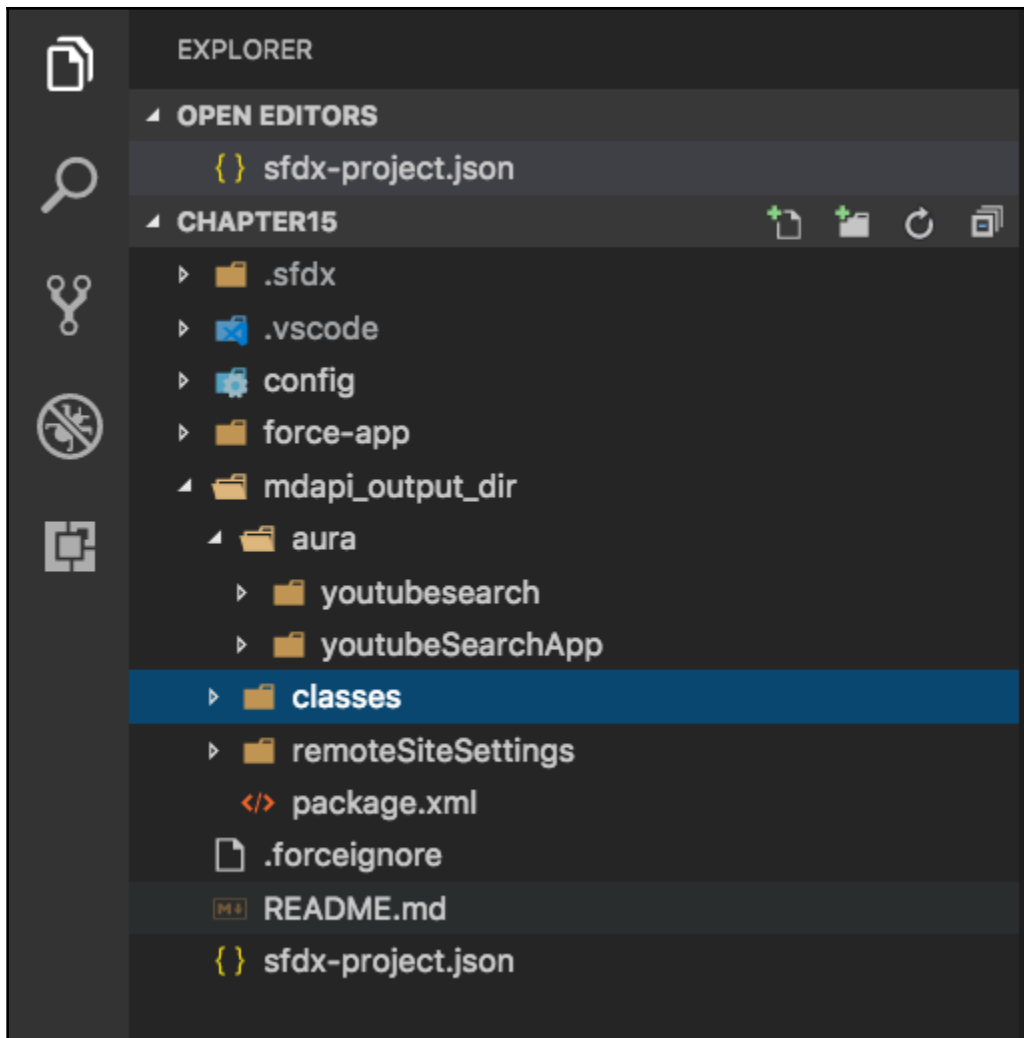
Created By	Code Coverage	Last Modified By
User User , 7/7/2018 1:55 PM	0% (No coverage data)	User User , 7/7/2018 1:55 PM

**Class Body**

```

1 public class Test {
2
3 }

```



```
Deployment finished in 1000ms
```

```
=== Result
```

```
Status: Succeeded
```

```
jobid: 0Aff20000082rdJCAQ
```

```
Completed: 2018-07-07T21:39:09.000Z
```

```
Component errors: 0
```

```
Components deployed: 5
```

```
Components total: 5
```

```
Tests errors: 0
```

```
Tests completed: 0
```

```
Tests total: 0
```

```
Check only: false
```

Package  
YouTube Search Application Help for this Page

[Back to Package List](#)

---

**ORGanizer Change Set Helper** Close Plugin

**Download components** Download the content of this package / change set in a zip file.

**Create Template** Create a template from current package / change set to be used to create new changesets. When the template is ready, you are requested for a viable name and save it.

**Metadata Templates** -- No template saved --

**Compare Templates** Compare the selected template with the current package / changeset to create a template with the components not yet included. **Do this if you are not sure if all the components of the template have already been added.** If differences are found a new template will be automatically created.

**Remove Template** Remove currently selected template from above templates list.

**Extract Template CSV** Download a CSV containing all the components of the currently selected template.

ORGanizer Change Set Helper Plugin

---

**Package Detail** Edit Delete Upload

Package Name	YouTube Search Application	Type	Managed
Language	English		
Notify on Apex Error		Post Install Script	
Namespace	SearchApp	Uninstall Script	
Created By	Mohith Shrivastava, 7/6/2018 10:13 PM	Last Modified By	Mohith Shrivastava, 7/7/2018 2:39 PM
Description			

---

**Components** Versions Remote Access

Add View Dependencies View Deleted Components

Action	Name	Parent Object	Type	Included By	Available in Versions	Owned By
Remove	YouTube		Remote Site	User Selected		
Remove	YouTubeDataParser		Apex Class	User Selected		
Remove	YouTubeSearch		Apex Class	User Selected		
Remove	youtubeSearchApp		Lightning Component Bundle	User Selected		
Remove	youtubeSearch		Lightning Component Bundle	User Selected		

```

Mohiths-MacBook-Air:chapter15 mohith$ sfdx force:package1:version:create -i 033f2000000PcNg -n 'Youtube Search Application' -u Devorg -w 4
Package upload is enqueued. Waiting 5 more seconds
Package upload in progress. Waiting 5 more seconds
Package upload in progress. Waiting 5 more seconds
Successfully uploaded package [04tf2000000SucXAAS]
Mohiths-MacBook-Air:chapter15 mohith$ sfdx force:package1:version:create -i 033f2000000PcNg -n 'Youtube Search Application' -u Devorg -w 4 -m
Package upload is enqueued. Waiting 5 more seconds
Package upload in progress. Waiting 5 more seconds
Successfully uploaded package [04tf2000000T1A9AAK]

```

Package Version Help for this Page

## Youtube Search Application, Version 1.0

[← Back to Package](#)

**Tip: Publishing to AppExchange**  
You can make your package publicly available to other salesforce.com users on AppExchange. [Tell me more!](#)

**Version Detail** [Deprecate](#)

Package Name	<a href="#">Youtube Search Application</a>	Uploaded By	<a href="#">Mohith Shrivastava</a> , 7/7/2018 9:50 PM
Version Name	Youtube Search Application	Post Install Script	
Version Number	1.0 (Released)	Uninstall Script	
Description		Password Protected	<input type="checkbox"/> <a href="#">[Change Password]</a>
Installation URL	<a href="https://login.salesforce.com/package1/installPackage.apex?po=04tf2000000T1A9">https://login.salesforce.com/package1/installPackage.apex?po=04tf2000000T1A9</a>		

**Package Components**

▼ **Pages (3)**

Component Name	Parent Object	Component Type
youtubesearchExample		Lightning Component Bundle
youtubesearch		Lightning Component Bundle
youtubesearchApp		Lightning Component Bundle

▼ **Code (3)**

Component Name	Parent Object	Component Type
YoutubesearchTest		Apex Class
Youtubesearch		Apex Class
MockHttpResponseGenerator		Apex Class

▼ **Resources (1)**

Component Name	Parent Object	Component Type
Youtube		Remote Site

Lightning Component Library Search Lightning Component Library...

Components Interfaces Events Resources

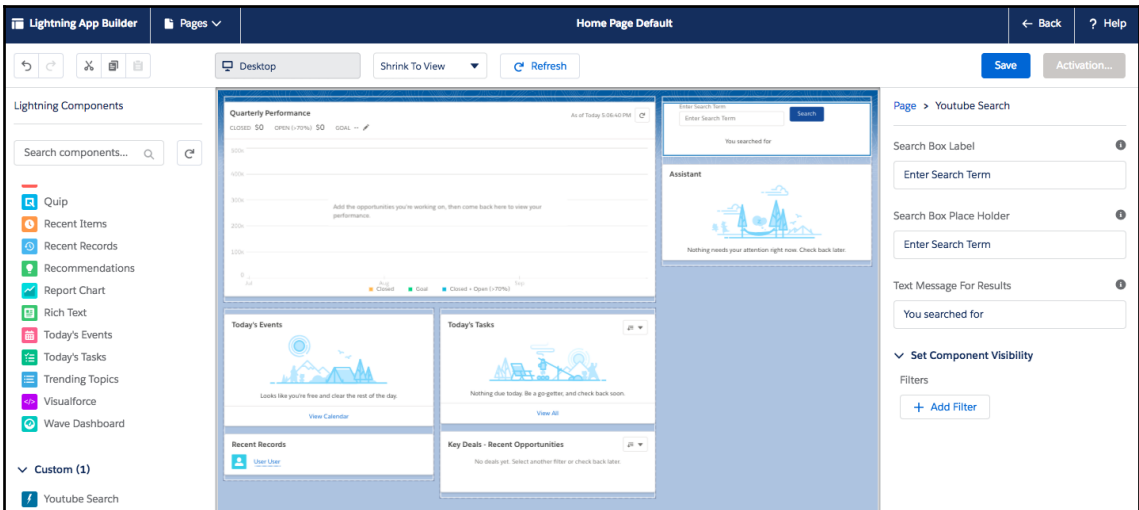
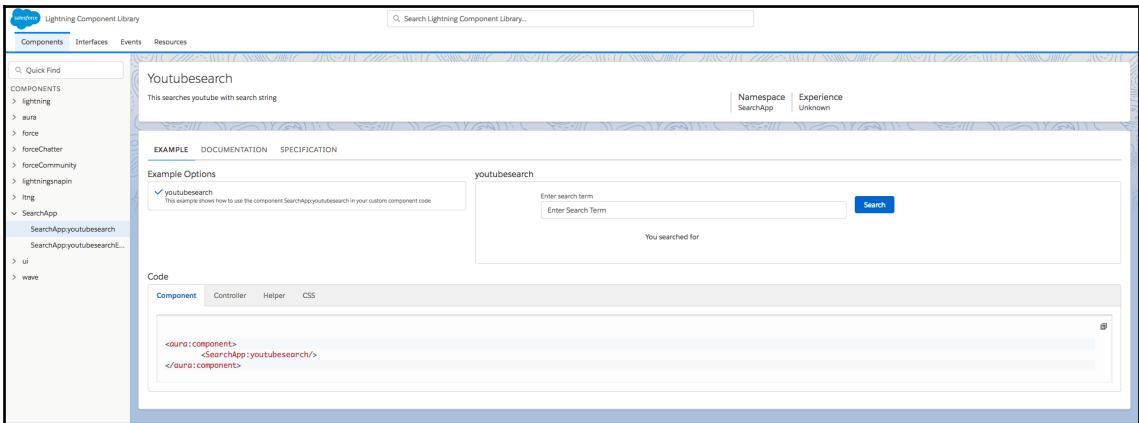
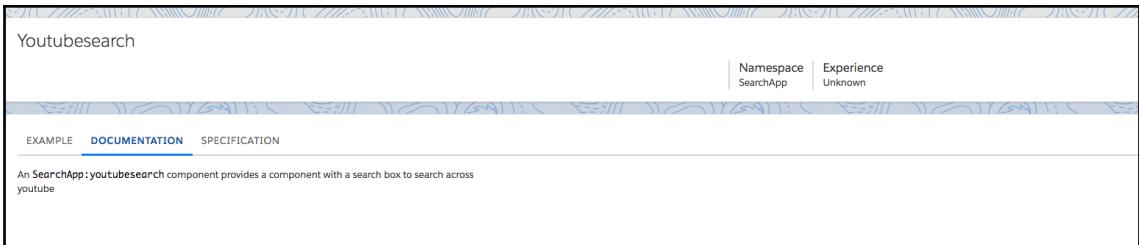
Quick Find









Youtubesearch

Namespace: SearchApp Experience: Unknown

[EXAMPLE](#) [DOCUMENTATION](#) [SPECIFICATION](#)

- COMPONENTS
- > lightning
- > aura
- > force
- > forceChatter
- > forceCommunity
- ▼ lightningnapin
  - lightningnapin.minimizedAPI
  - lightningnapin.prechatAPI
  - lightningnapin.settingsAPI
- ▼ Itng
  - Itngrequire
- ▼ SearchApp
  - SearchAppyoutubesearch



-  Report Chart
-  Rich Text
-  Today's Events
-  Today's Tasks
-  Trending Topics
-  Visualforce
-  Wave Dashboard
  
- ▼ **Custom (1)**
-  Youtube Search

LISTINGS   PACKAGES   TRIAL TEMPLATES   **ORGANIZATIONS**   COMPANY INFO   ANALYTICS

To use packages or trial templates in your listings, connect the organizations where the packages or trial templates were created. If you need to create a new organization, use the [Environment Hub](#).

Organizations that contain packages Connect Organization

Organization Name	Organization ID	Salesforce Edition	Packages	Trial Templates
Administrator	00D90000000aRKL	Developer Edition	4	0
Cloudy Worlds	00D28000000e0Wc	Developer Edition	3	0

LISTINGS **PACKAGES** TRIAL TEMPLATES ORGANIZATIONS COMPANY INFO ANALYTICS

Packages are containers that hold the code and metadata associated with apps or components. There are two types of packages: Managed and Unmanaged. [Learn More...](#)

To add a package, link the organization that contains the package on the [Organizations](#) tab. Be sure to [upload the package](#).

Search...  Q All Packages ▾  Versions that passed security review

Not Listed **LightningSummation**  
 Package Type: Unmanaged Package ID: 033280000001PzPAAU Organization ID: 00D28000000e0WcEAI Create Listing

Version	Version Id	Licenses	Security Review	Installs
1.0 (1.0.0)	04t28000000B4ngAAC	Unmanaged - can't be licensed	<a href="#">Start Review</a>	0

**CommunityCustomButton (lightnksdn)**  
 Package Type: Managed Package ID: 033280000001YozAAE Organization ID: 00D28000000e0WcEAI Edit Listing

Version	Version Id	Licenses	Security Review	Installs
1.9 (1.9.0) LISTED	04t0I000000yGEWQA2	<a href="#">Manage Licenses</a>	Passed (5/18/2016)	254

[Show more versions >](#)

Listings · New Listing

Listing Title \*

What type of listing is this?  
 App  
 Lightning Component  
 Consulting Service  
 Bolt Solution  
 Lightning Data

Marketplace

[Cancel](#) [Save & Next](#)

**Prepare to List Your App**

An app is a self-contained program designed for a particular purpose. Salesforce apps can take many forms, from a group of custom tabs to an external service that integrates with our API. To list on the AppExchange, you must distribute an app as a managed package, unmanaged package, or use one of the Salesforce APIs.

Before you start an app listing, be sure to:

- [Create logo, tile, and banner images](#)
- [Create media, like videos, to show off your work](#)
- [Review the Salesforce Branding Guidelines](#)
- [Submit your app for security review](#)
- [Set up and configure Trialforce \(if offering a trial or demo\)](#)
- [Set up and configure Web-to-Lead \(if you want to collect leads\)](#)