* Welcome to PROGRAMMING Salesforce LIGHTNING COMPONENTS
* (DEV 601) Session

What you will Learn

- YO U W IL L B E A B L E TO:
- • Efficiently create custom, reusable Lightning components and applications.
- • Surface Lightning components and applications throughout the Salesforce ecosystem.
- • Define input forms with client-side data validation.
- • Build apps that enable a user to create, read, and update data from a Salesforce org.
- • Make components available to other developers through AppExchange and unmanaged packages.
- • Theme your application by using SLDS and Lightning Tokens
- Note:Prior Knowledge of salesforce admin/configuration/Apex Classes/Triggers mandatory for this course

Lightning development Core Contents

- Lightning App Builder (Navigation .. Pages)
- Development topics
- Introduction to the Framework
- Components
- UI attributes
- JS controllers
- Style
- Helper Methods
- Invoking Aura(Apex controller methods in Components)
- Events :How components communicate-component and application
- How to communicate to nested components
- Embedding Components in apps
- Building Form s using SLDSX
- Using Sobjects attributes to save data using aura controllers and edit using has:recordid
- Override the default record detail page
- Misc topics – tags, How to override standard button with lightning component
- Data Sevice and similar frameworks for no aura apex sobject calls

Key Aside–Classic vs lightning

Model	Classic	Lightning
Model	Sobject	No change
View	VF pages/layouts	Lightning pages/Custom Components
Controller	Apex classes	Apex ClassesJS controllers

Lightning Navigation

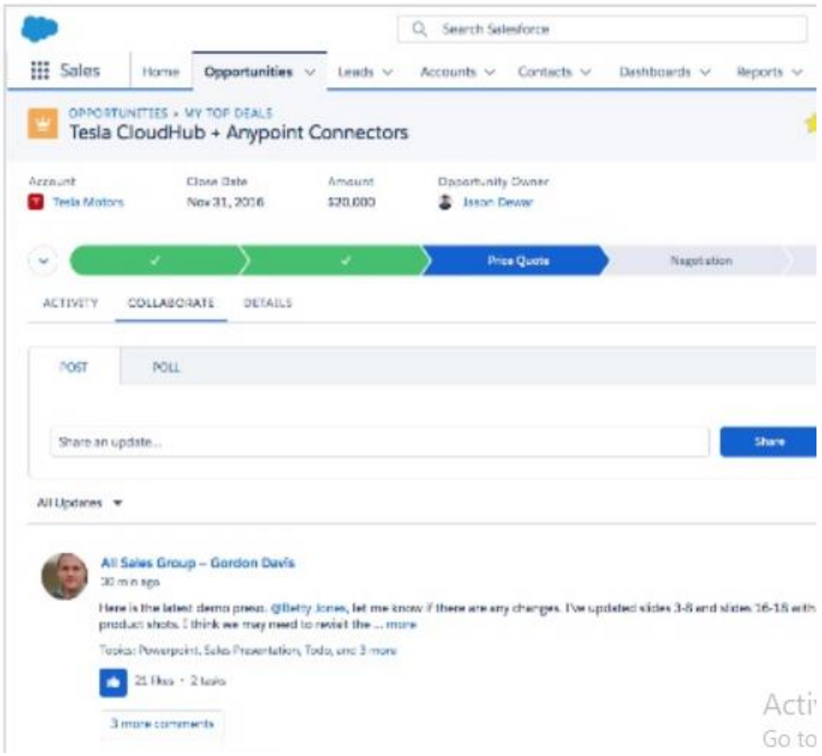
* Lighting Navigation experience
* Domain needs to be enabled before moving into lightning.
* Mandatory security requirement after winter 16 ,as domain ensures that components created by you are encapsulated in your domain

* Lab:
* Please enable domain in your developer org,deploy the same and start using lightning.

Updated Navigation UI

Winter ‘17 for all orgs

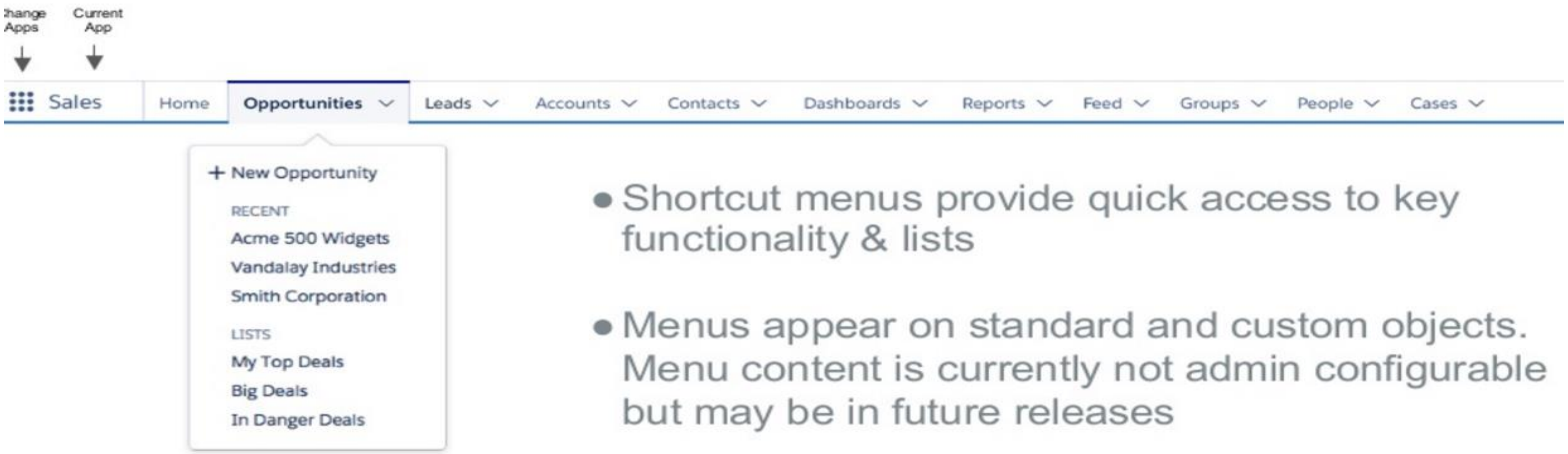
- Horizontal navigation bar
- Full screen width available for app content
- App switching via the App Launcher ⠿ (now located in nav bar)
- App branding



Account: Tesla Motors
Close Date: Nov 31, 2016
Amount: $20,000
Opportunity Owner: Jason Dewar

All Sales Group – Gordon Davis
30 min ago
Here is the latest demo preso. @Betty Jones, let me know if there are any changes. I've updated slides 3-8 and slides 16-18 with product shots. I think we may need to revisit the ... more
Topics: Powerpoint, Sales Presentation, Todo, and 3 more
21 likes · 2 tasks
3 more comments

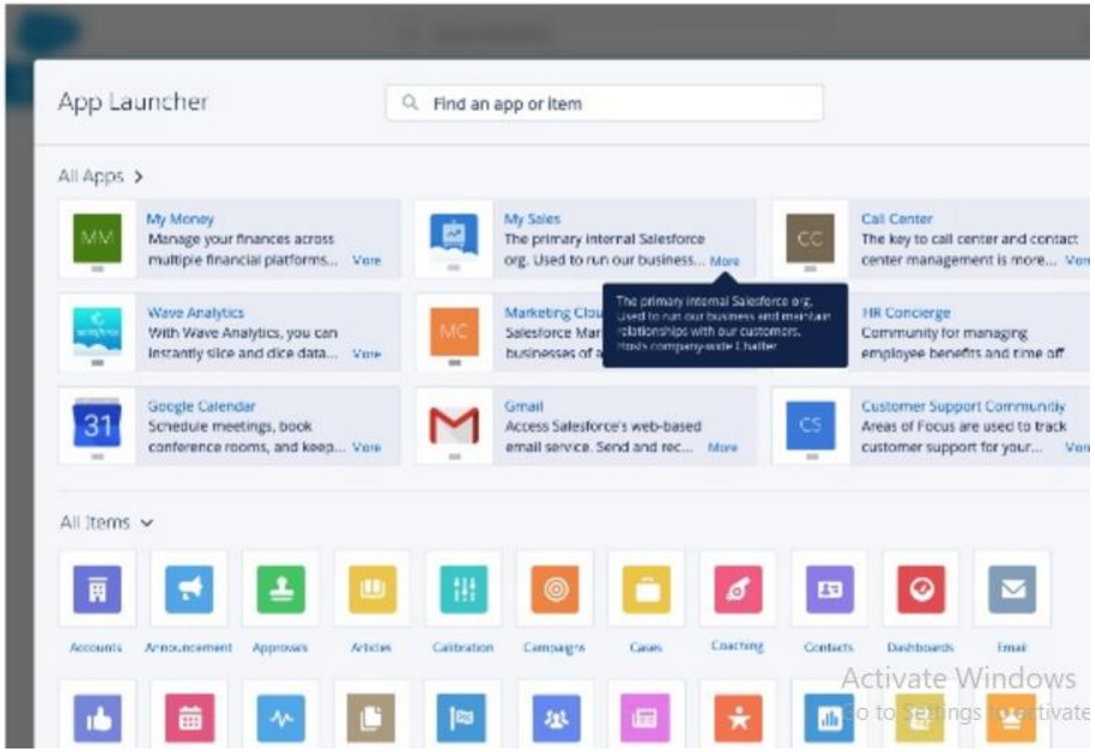
The Navigation Bar



- Shortcut menus provide quick access to key functionality & lists
- Menus appear on standard and custom objects. Menu content is currently not admin configurable but may be in future releases

Updated App Launcher

- Organized into two sections: apps and items
- Easily search across both sections
- All Items section is equivalent to the “+” tab in Classic


App Launcher

Find an app or item

All Apps >

My Money
Manage your finances across multiple financial platforms... More

My Sales
The primary internal Salesforce org. Used to run our business... More

Call Center
The key to call center and contact center management is more... More

Wave Analytics
With Wave Analytics, you can instantly slice and dice data... More

Marketing Clou
Salesforce Mar
businesses of a

The primary internal Salesforce org. Used to run our business and maintain relationships with our customers. Hosts company-wide Chatter

HR Concierge
Community for managing employee benefits and time off

Google Calendar
Schedule meetings, book conference rooms, and keep... More

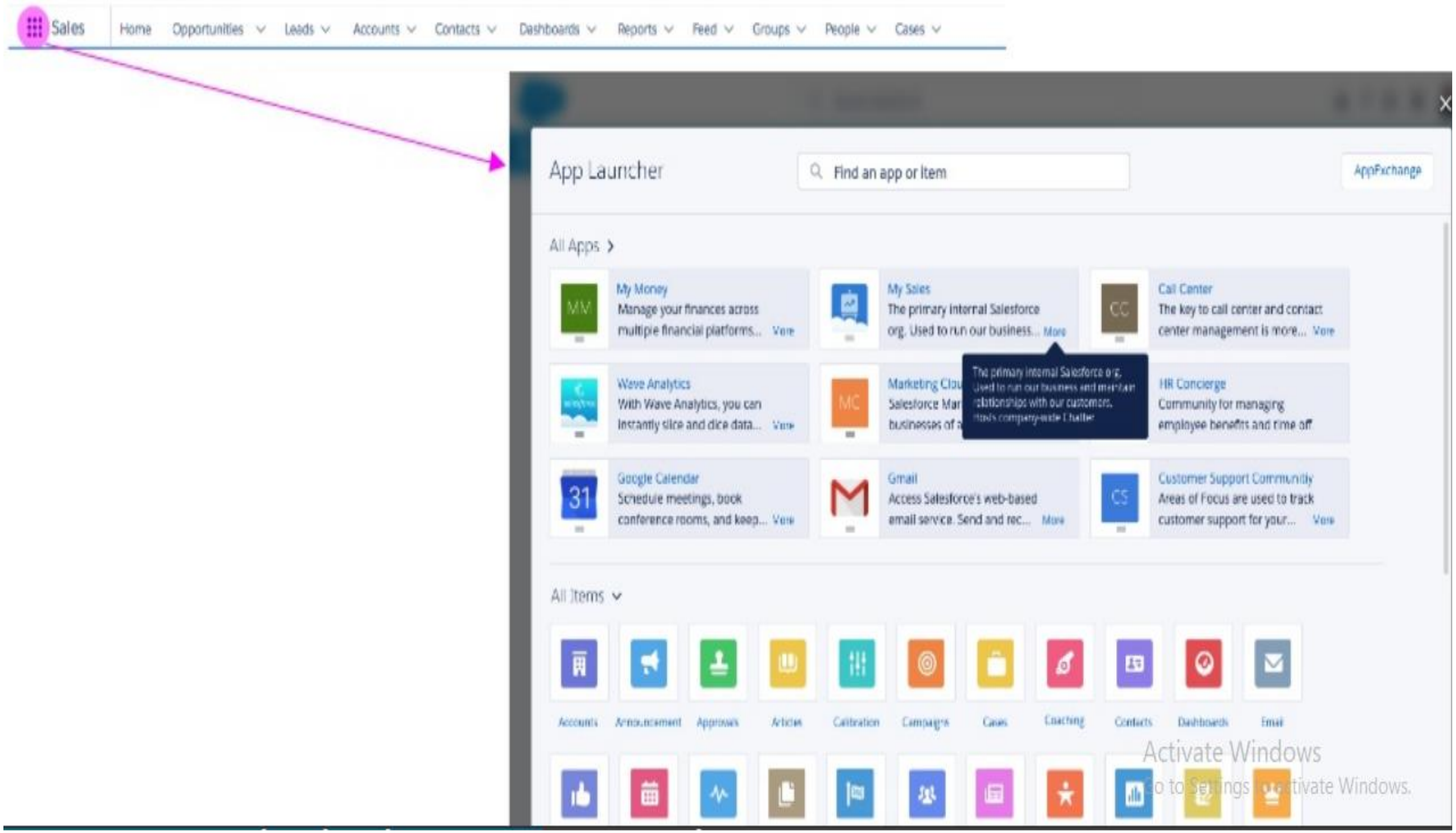
Gmail
Access Salesforce's web-based email service. Send and rec... More

Customer Support Community
Areas of Focus are used to track customer support for your... More

All Items

Changing Apps

via the App Launcher



My Money — Manage your finances across multiple financial platforms... More

My Sales — The primary internal Salesforce org. Used to run our business... More

Call Center — The key to call center and contact center management is more... More

Wave Analytics — With Wave Analytics, you can instantly slice and dice data... More

Marketing Clou[d] — Salesforce Mar[keting Cloud] businesses of a[...]

The primary internal Salesforce org. Used to run our business and maintain relationships with our customers. Hosts company-wide Chatter

HR Concierge — Community for managing employee benefits and time off

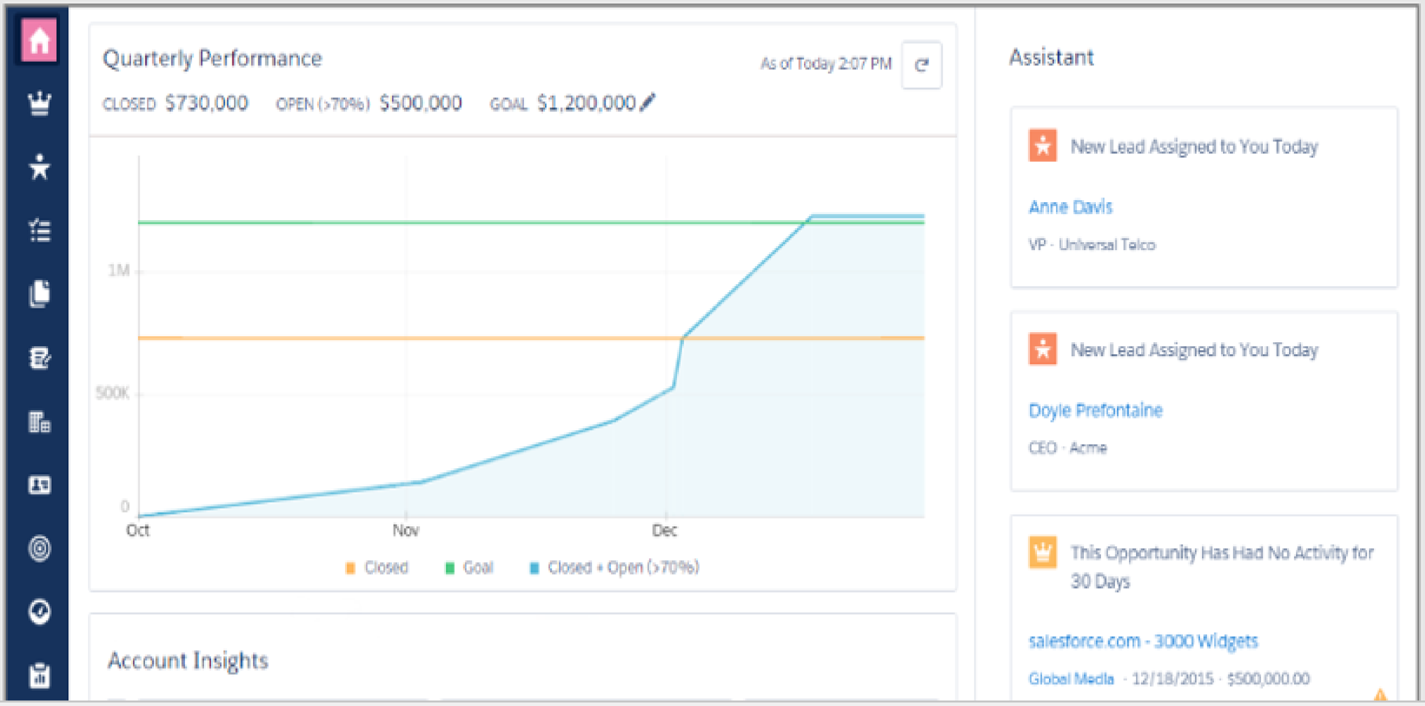
Google Calendar — Schedule meetings, book conference rooms, and keep... More

Gmail — Access Salesforce's web-based email service. Send and rec... More

Customer Support Community — Areas of Focus are used to track customer support for your... More

Lightning experience and App builder

- Start your day fast with a new, intelligent page.
- Use the Performance Chart to monitor how close you are to crushing your numbers.
- See relevant, timely news articles about customers, partners, and competitors with Account Insights.
- See upcoming meetings and tasks due today.
- Use the Assistant to identify key issues to work on today.
- Focus your selling activities on your Top Deals.



New Lead Assigned to You Today

Anne Davis

VP · Universal Telco

New Lead Assigned to You Today

Doyle Prefontaine

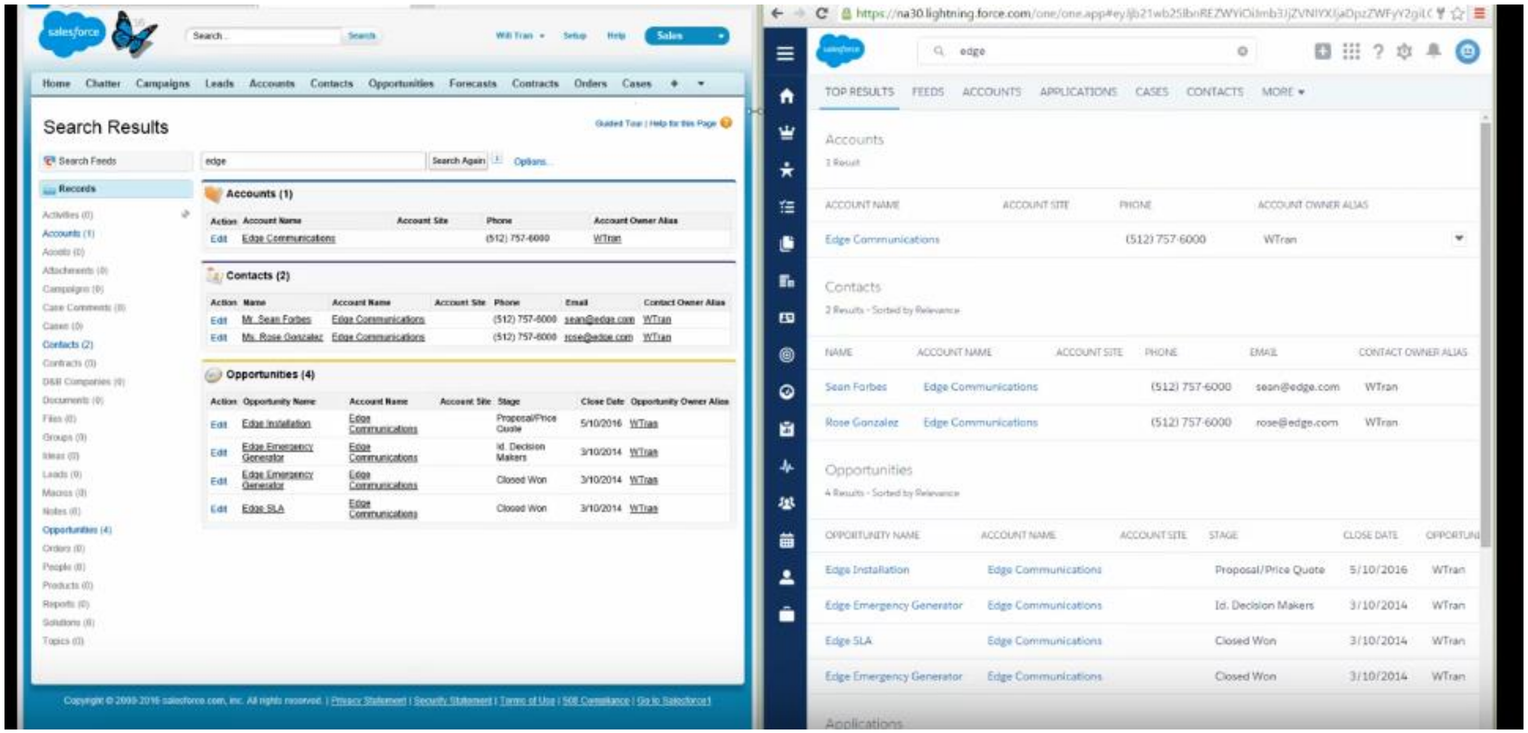
CEO · Acme

This Opportunity Has Had No Activity for 30 Days

salesforce.com - 3000 Widgets

Global Media · 12/18/2015 · $500,000.00

Classic vs Lighting Navigational Differences



Search Results

edge

Accounts (1)

Action	Account Name	Account Site	Phone	Account Owner Alias
Edit	Edge Communications		(512) 757-6000	WTran

Contacts (2)

Action	Name	Account Name	Account Site	Phone	Email	Contact Owner Alias
Edit	Mr. Sean Forbes	Edge Communications		(512) 757-6000	sean@edge.com	WTran
Edit	Ms. Rose Gonzalez	Edge Communications		(512) 757-6000	rose@edge.com	WTran

Opportunities (4)

Action	Opportunity Name	Account Name	Account Site	Stage	Close Date	Opportunity Owner Alias
Edit	Edge Installation	Edge Communications		Proposal/Price Quote	5/10/2016	WTran
Edit	Edge Emergency Generator	Edge Communications		Id. Decision Makers	3/10/2014	WTran
Edit	Edge Emergency Generator	Edge Communications		Closed Won	3/10/2014	WTran
Edit	Edge SLA	Edge Communications		Closed Won	3/10/2014	WTran

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https://na30.lightning.force.com/one/one.app#eyJjb21wb25lbnREZWYiOiJmb3JjZVNlYXJjaDpzZWFyY2giL

edge

Accounts

1 Result

ACCOUNT NAME	ACCOUNT SITE	PHONE	ACCOUNT OWNER ALIAS
Edge Communications		(512) 757-6000	WTran

Contacts

2 Results · Sorted by Relevance

NAME	ACCOUNT NAME	ACCOUNT SITE	PHONE	EMAIL	CONTACT OWNER ALIAS
Sean Forbes	Edge Communications		(512) 757-6000	sean@edge.com	WTran
Rose Gonzalez	Edge Communications		(512) 757-6000	rose@edge.com	WTran

Opportunities

4 Results · Sorted by Relevance

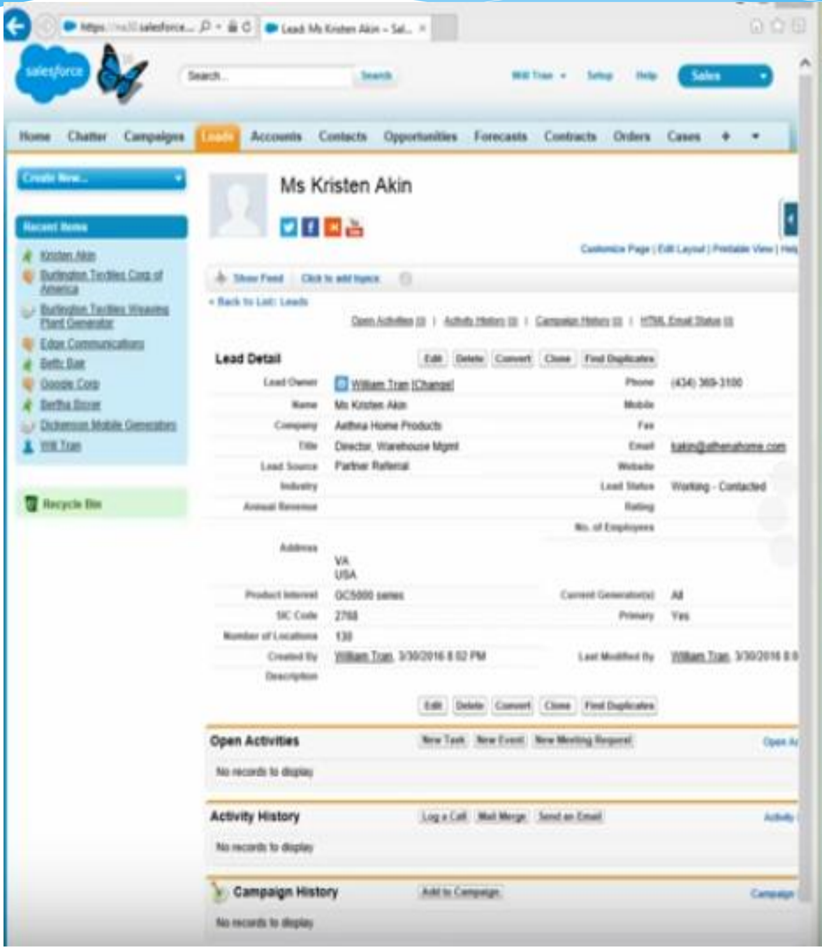
OPPORTUNITY NAME	ACCOUNT NAME	ACCOUNT SITE	STAGE	CLOSE DATE	OPPORTUNI
Edge Installation	Edge Communications		Proposal/Price Quote	5/10/2016	WTran
Edge Emergency Generator	Edge Communications		Id. Decision Makers	3/10/2014	WTran
Edge SLA	Edge Communications		Closed Won	3/10/2014	WTran
Edge Emergency Generator	Edge Communications		Closed Won	3/10/2014	WTran

Applications

Path settings

- Can be per record type
- For any picklist,but mainly for leads and sales process
- Best practise is lead status and opportunity stage
- Can have paths for any object
- Can expose fields for each path ,so as to guide sales team with best approach to close opportunities or convert leads.

SalesPath features for leads



Ms Kristen Akin

Lead Detail

Lead Owner	William Tran [Change]	Phone	(434) 369-3100
Name	Ms Kristen Akin	Mobile	
Company	Aethna Home Products	Fax	
Title	Director, Warehouse Mgmt	Email	kakin@athenahome.com
Lead Source	Partner Referral	Website	
Industry		Lead Status	Working - Contacted
Annual Revenue		Rating	
		No. of Employees	
Address	VA USA		
Product Interest	GC5000 series	Current Generator(s)	All
SIC Code	2768	Primary	Yes
Number of Locations	130		
Created By	William Tran, 3/30/2016 8:02 PM	Last Modified By	William Tran, 3/30/2016 8:0
Description			

Open Activities

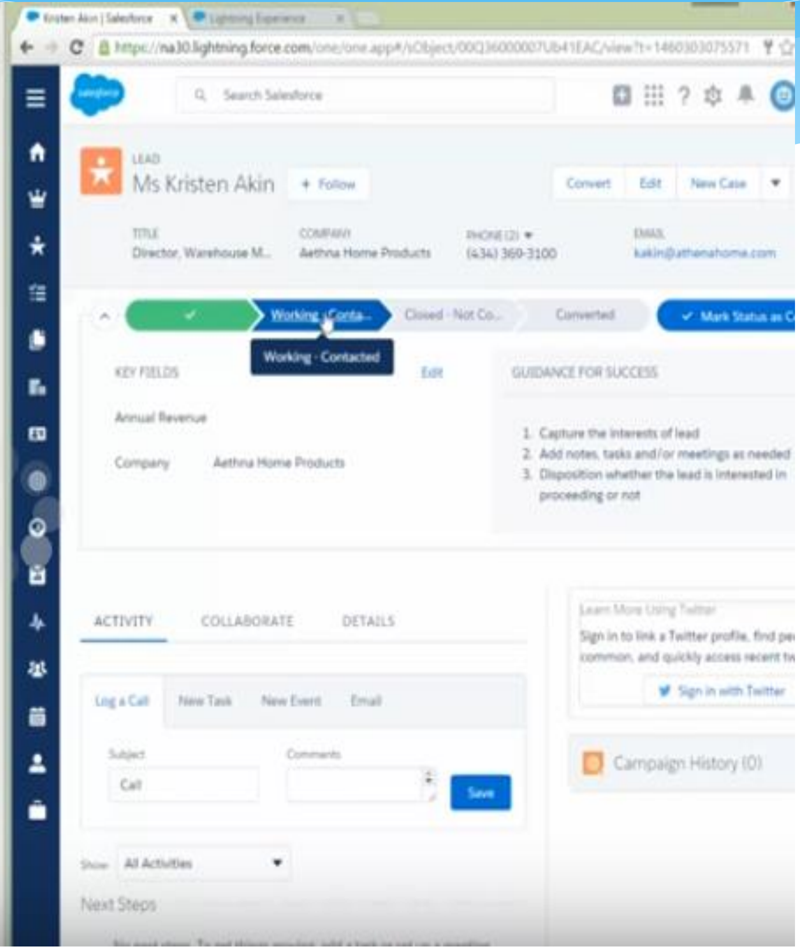
No records to display

Activity History

No records to display

Campaign History

No records to display



LEAD

Ms Kristen Akin

TITLE	COMPANY	PHONE (2)	EMAIL
Director, Warehouse M...	Aethna Home Products	(434) 369-3100	kakin@athenahome.com

Working - Contacted

KEY FIELDS

Annual Revenue

Company Aethna Home Products

GUIDANCE FOR SUCCESS

1. Capture the interests of lead
2. Add notes, tasks and/or meetings as needed
3. Disposition whether the lead is interested in proceeding or not

Subject: Call

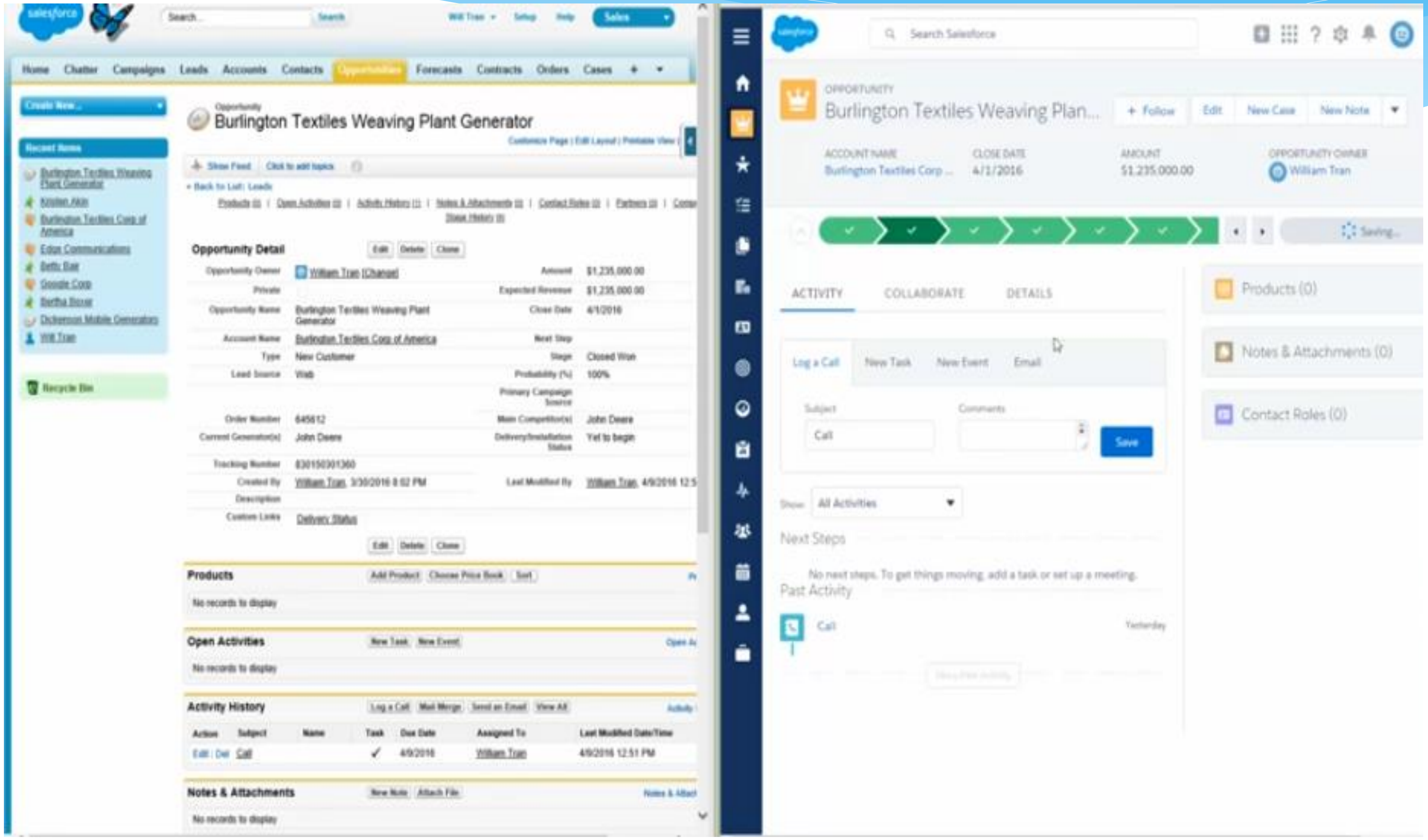
Show: All Activities

Next Steps

Sign in to link a Twitter profile, find pe common, and quickly access recent tw

Campaign History (0)

Opportunity Progress



Burlington Textiles Weaving Plant Generator

Opportunity Detail

Opportunity Owner	William Tran [Change]	Amount	$1,235,000.00
Private		Expected Revenue	$1,235,000.00
Opportunity Name	Burlington Textiles Weaving Plant Generator	Close Date	4/1/2016
Account Name	Burlington Textiles Corp of America	Next Step	
Type	New Customer	Stage	Closed Won
Lead Source	Web	Probability (%)	100%
		Primary Campaign Source	
Order Number	645612	Main Competitor(s)	John Deere
Current Generator(s)	John Deere	Delivery/Installation Status	Yet to begin
Tracking Number	830150301360		
Created By	William Tran, 3/30/2016 8:02 PM	Last Modified By	William Tran, 4/9/2016 12:5
Description			
Custom Links	Delivery Status		

Products

No records to display

Open Activities

No records to display

Activity History

Action	Subject	Name	Task	Due Date	Assigned To	Last Modified Date/Time
Edit | Del	Call		✓	4/9/2016	William Tran	4/9/2016 12:51 PM

Notes & Attachments

No records to display

OPPORTUNITY
Burlington Textiles Weaving Plan...

ACCOUNT NAME	CLOSE DATE	AMOUNT	OPPORTUNITY OWNER
Burlington Textiles Corp ...	4/1/2016	$1,235,000.00	William Tran

ACTIVITY · COLLABORATE · DETAILS

Log a Call · New Task · New Event · Email

Subject: Call

Next Steps

No next steps. To get things moving, add a task or set up a meeting.

Past Activity

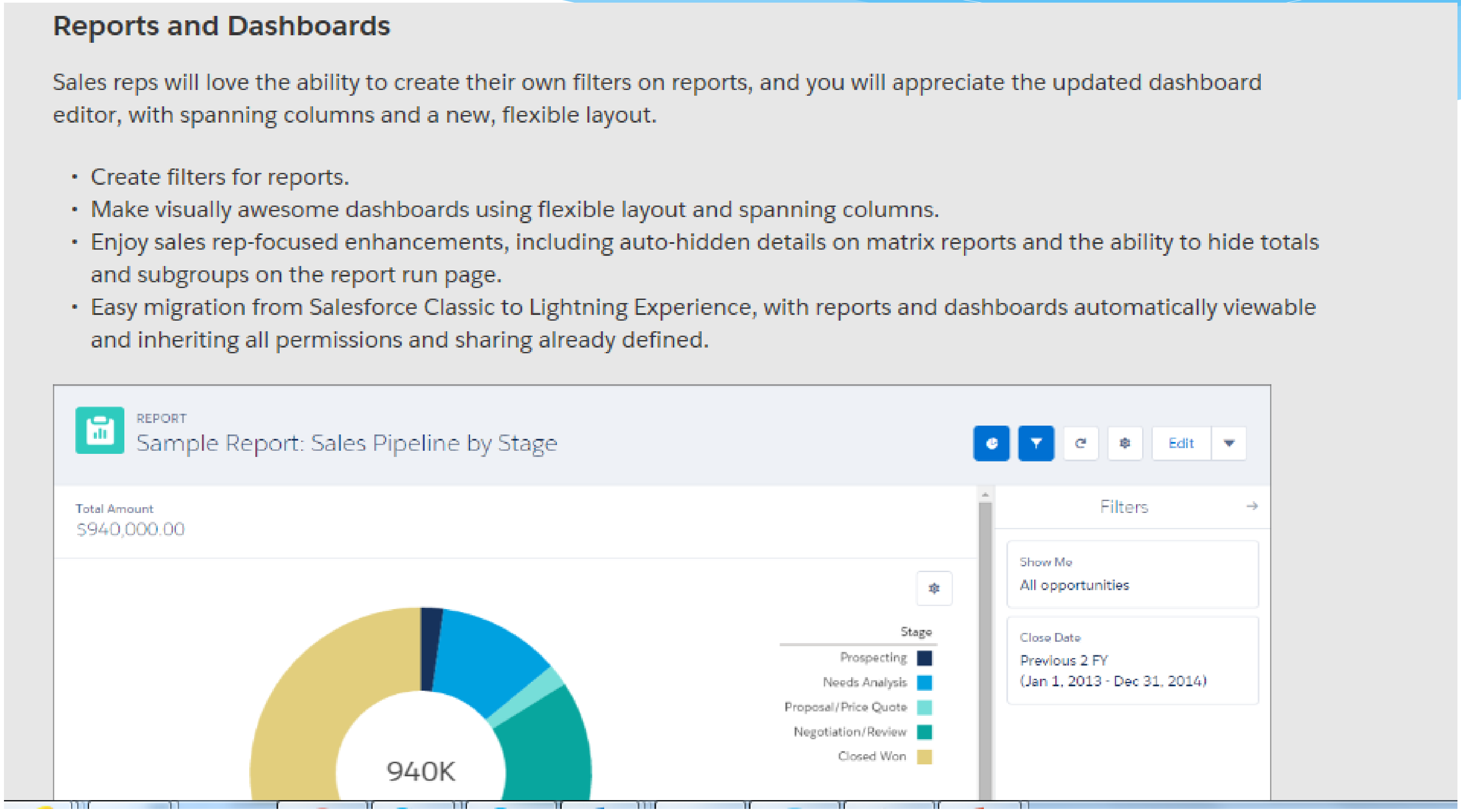
Call — Yesterday

Products (0)

Notes & Attachments (0)

Contact Roles (0)

Reports and Dashboards



Reports and Dashboards

Sales reps will love the ability to create their own filters on reports, and you will appreciate the updated dashboard editor, with spanning columns and a new, flexible layout.

- Create filters for reports.
- Make visually awesome dashboards using flexible layout and spanning columns.
- Enjoy sales rep-focused enhancements, including auto-hidden details on matrix reports and the ability to hide totals and subgroups on the report run page.
- Easy migration from Salesforce Classic to Lightning Experience, with reports and dashboards automatically viewable and inheriting all permissions and sharing already defined.

REPORT
Sample Report: Sales Pipeline by Stage

Edit

Total Amount
$940,000.00

940K

Stage	
Prospecting	■
Needs Analysis	■
Proposal/Price Quote	■
Negotiation/Review	■
Closed Won	■

Filters

Show Me
All opportunities

Close Date
Previous 2 FY
(Jan 1, 2013 - Dec 31, 2014)

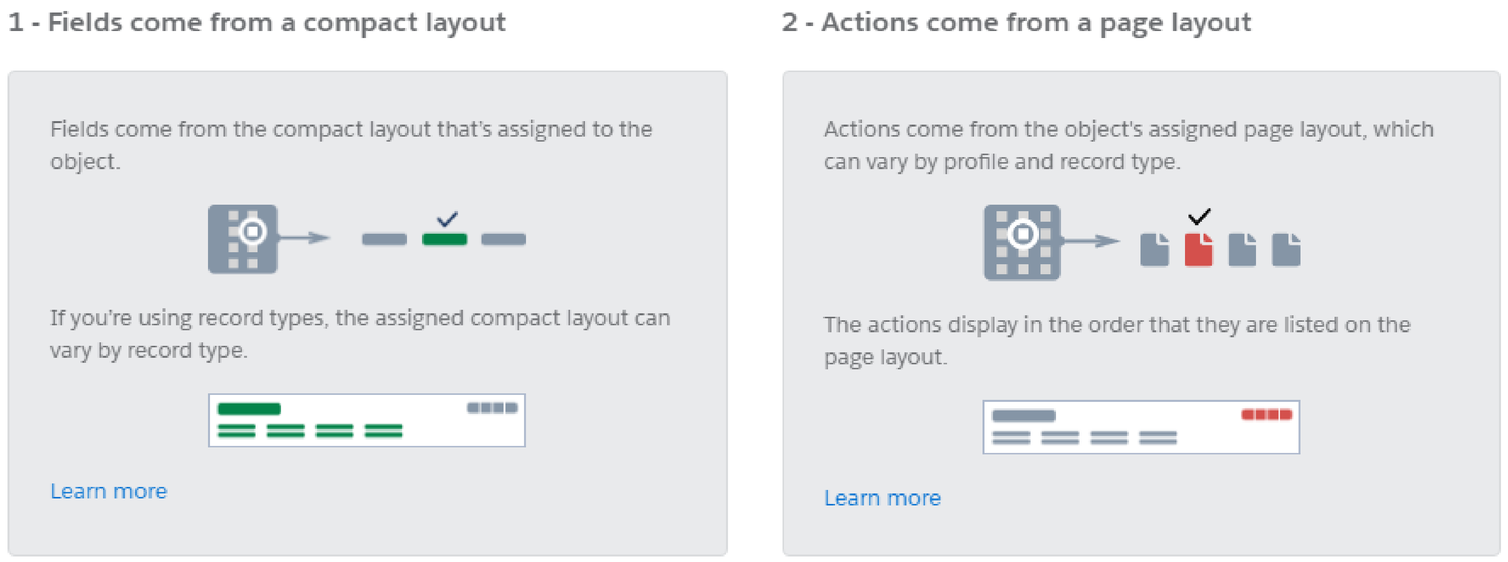
Use cases for lightning

Lightning Experience might be right for some or all of your organization if:	Salesforce Classic might be right for you if:
Your sales team does business-to-business sales using accounts, contacts, leads, opportunities, custom objects, and the other sales features supported in the new user interface.	Your sales team makes regular use of features that aren't yet available in Lightning Experiences, such as quotes, forecasting, or territory management.
You want to pilot the new user interface with a group of sales reps.	You primarily use customer service tools or other non-sales features.
You're looking to reboot your Salesforce implementation.	You want a single experience for your sales and service teams.

Lab session -Lightning App Builder

* Create a App page
* Create a record detail page
* Create a home page
* Explore OOB components usage .
* Expose All three in Lightning using navigation menus
* Expose All three in Salesforce1 using Lightning menu

Highlights Panel



1 - Fields come from a compact layout

Fields come from the compact layout that's assigned to the object.

If you're using record types, the assigned compact layout can vary by record type.

Learn more

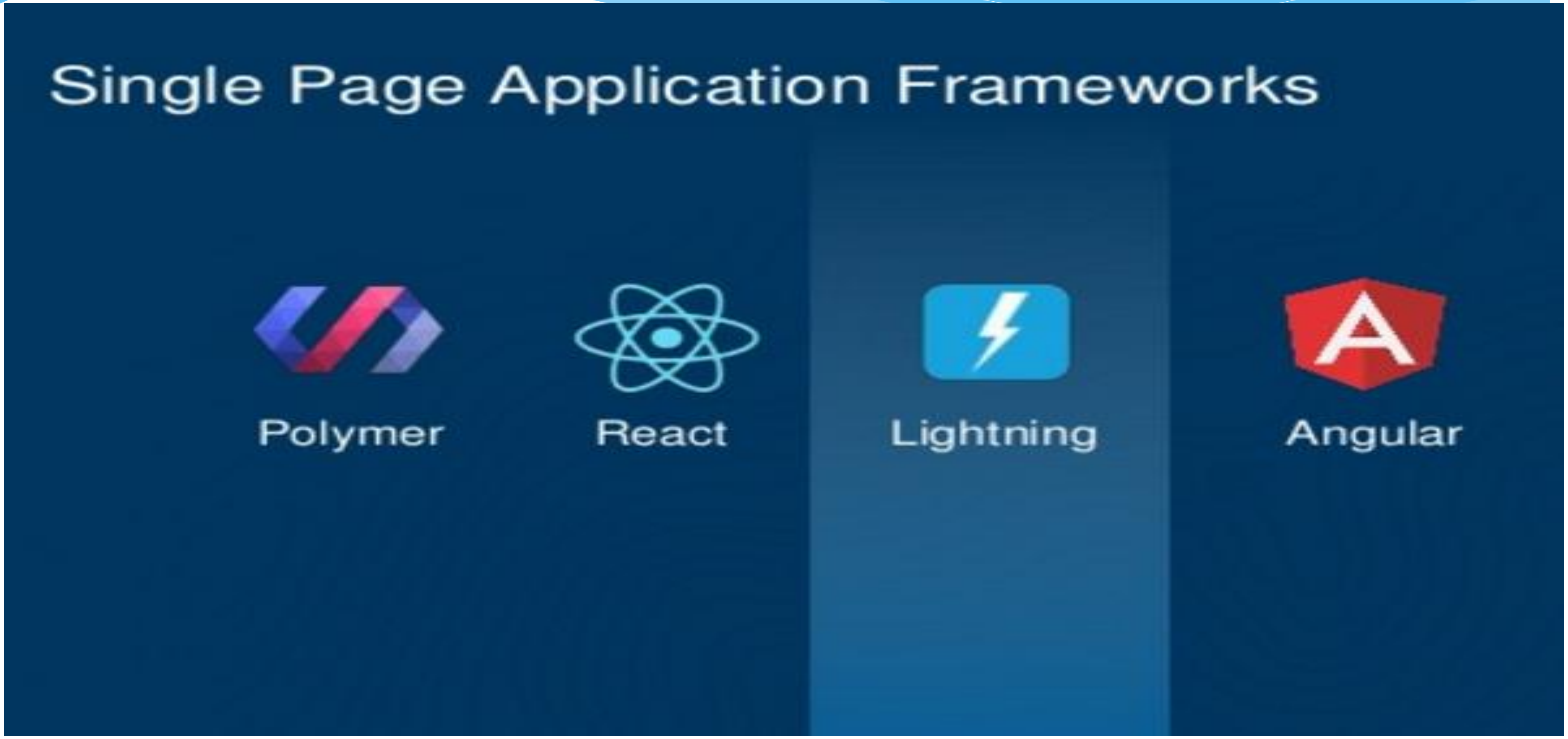
2 - Actions come from a page layout

Actions come from the object's assigned page layout, which can vary by profile and record type.

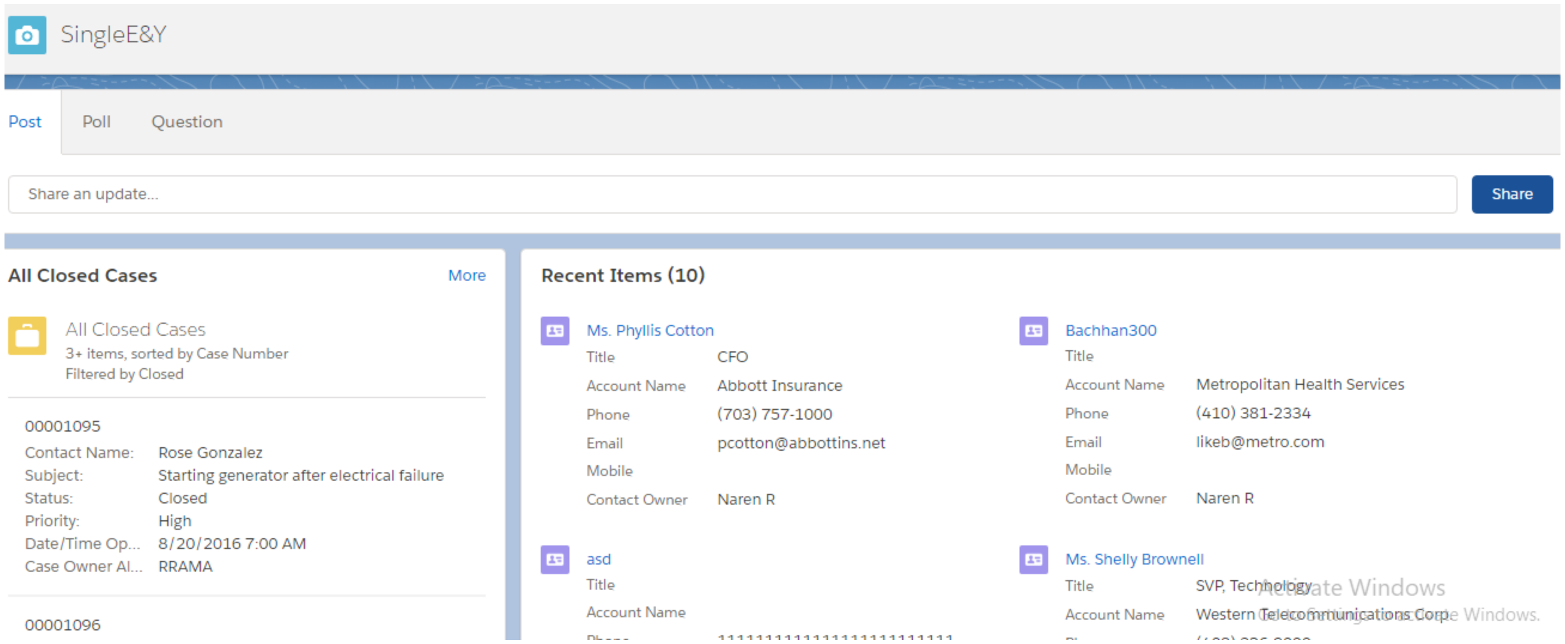
The actions display in the order that they are listed on the page layout.

Learn more

SPA Framework



App Page



SingleE&Y

Post Poll Question

Share an update... Share

All Closed Cases More

All Closed Cases
3+ items, sorted by Case Number
Filtered by Closed

00001095

Contact Name:	Rose Gonzalez
Subject:	Starting generator after electrical failure
Status:	Closed
Priority:	High
Date/Time Op...	8/20/2016 7:00 AM
Case Owner Al...	RRAMA

00001096

Recent Items (10)

Ms. Phyllis Cotton

Title	CFO
Account Name	Abbott Insurance
Phone	(703) 757-1000
Email	pcotton@abbottins.net
Mobile	
Contact Owner	Naren R

Bachhan300

Title	
Account Name	Metropolitan Health Services
Phone	(410) 381-2334
Email	likeb@metro.com
Mobile	
Contact Owner	Naren R

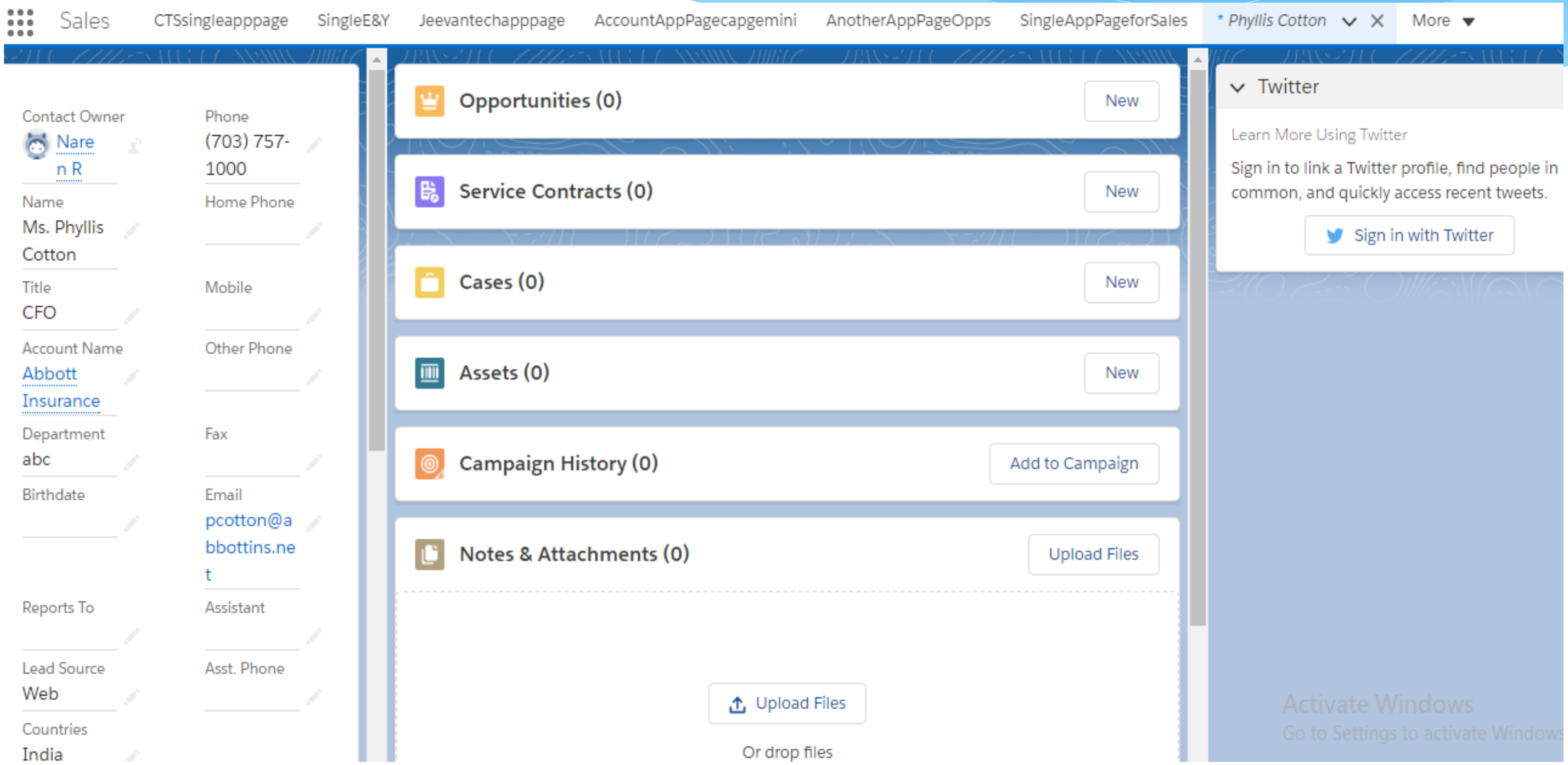
asd

Title	
Account Name	

Ms. Shelly Brownell

Title	SVP, Technology
Account Name	Western Telecommunications Corp.

Record Detail Page



Sales | CTSsingleapppage | SingleE&Y | Jeevantechapppage | AccountAppPagecapgemini | AnotherAppPageOpps | SingleAppPageforSales | * Phyllis Cotton | More

Contact Owner: Naren R	Phone: (703) 757-1000
Name: Ms. Phyllis Cotton	Home Phone:
Title: CFO	Mobile:
Account Name: Abbott Insurance	Other Phone:
Department: abc	Fax:
Birthdate:	Email: pcotton@abbottins.net
Reports To:	Assistant:
Lead Source: Web	Asst. Phone:
Countries: India	

Opportunities (0) — New

Service Contracts (0) — New

Cases (0) — New

Assets (0) — New

Campaign History (0) — Add to Campaign

Notes & Attachments (0) — Upload Files

Upload Files

Or drop files

Twitter

Learn More Using Twitter

Sign in to link a Twitter profile, find people in common, and quickly access recent tweets.

Sign in with Twitter

Activate Windows
Go to Settings to activate Windows

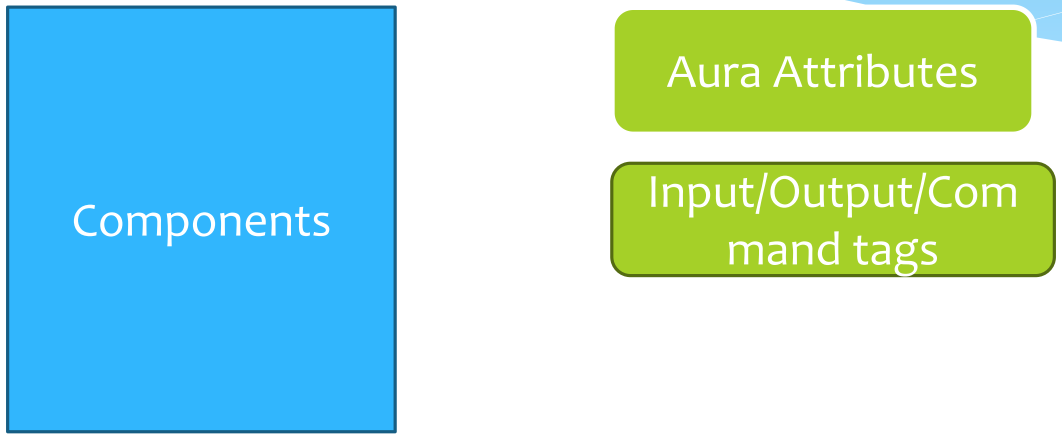
Lightning or Aura ? Framework

- First off: "Lightning" is a larger (marketing) effort to rebrand existing and new Salesforce1 platform services under one shiny new umbrella. "Salesforce1 Lightning" consists of the following pieces, among others:
- Lightning Process Builder (rebrand of Visual Workflow)
- Lightning Components (new - port of open source Aura Framework onto Salesforce1 platform)
- Lightning App Builder (new - drag and drop assembly of Lightning Components into a page)
- Lightning Connect (rebrand of "External Data Objects", which allows you to interact with external data sources that implement the OData spec as if they were regular Salesforce SObjects)

Lightning or Aura ? Framework

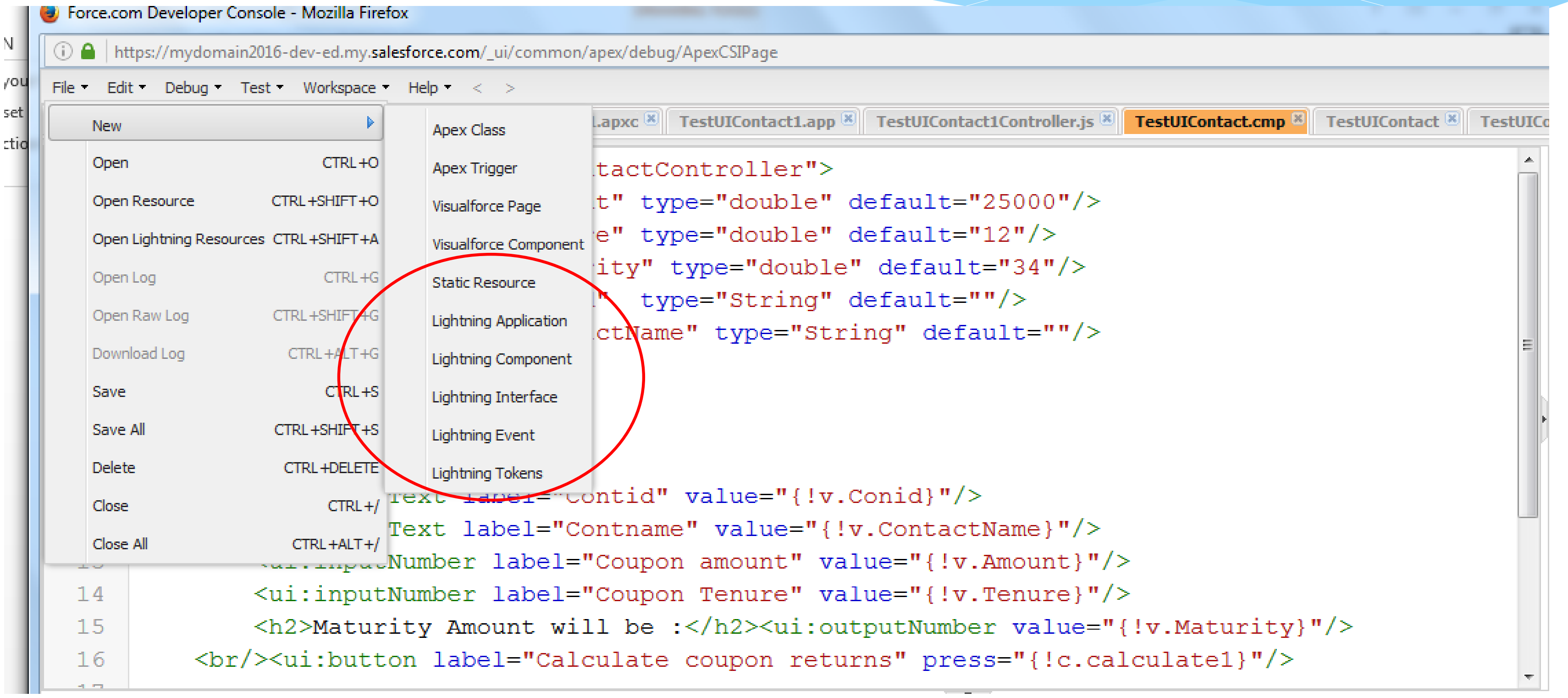
- As you've surmised, Lightning Components are essentially a rebranding of "Aura on the Platform" (AOTP), an initiative that's been going on within Salesforce for several years. Aura began as an internal initiative at Salesforce to build a scalable, component-based user interface framework, and earlier this year, Salesforce open-sourced the Aura Framework (available at http://documentation.auraframework.org/auradocs# and https://github.com/forcedotcom/aura
- Lightning Components *are* Aura Components --- if you go to create a new "Lightning Component", the actual markup you use is <aura:component>, and a lot of the core XML tags available from Aura, e.g. <aura:iteration>, <aura:if>, etc. are prefixed with aura and will remain that way.
- Key Benefits
- Event Driven Framework
- Lots of OOB components
- Optimised for performance if lightning tags are used
- Provides secure encapsulation by hiding dom model.

Lightning Components –View architecture



Attributes define variables inside a component and Data types
UI tags specify Input/output tags similar as in html,can also invoke methods
Methods and aura controller coupling view will be shown in an upcoming slide

How to create Lightning Components

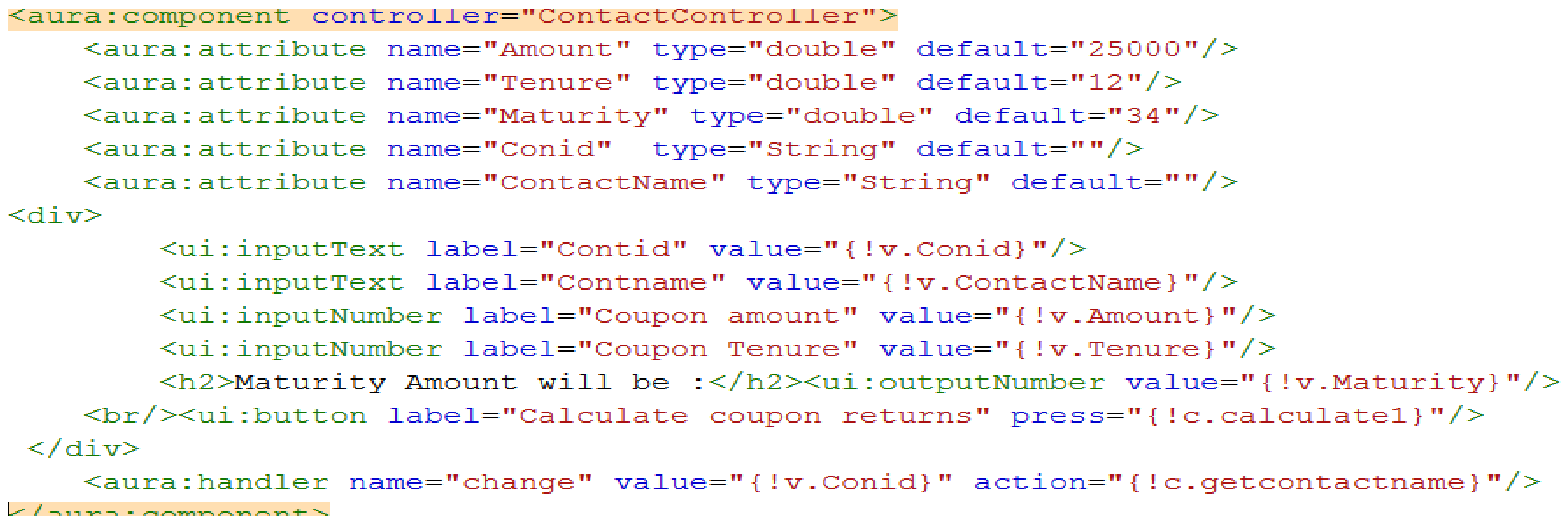


```
tactController">
t" type="double" default="25000"/>
e" type="double" default="12"/>
ity" type="double" default="34"/>
" type="String" default=""/>
ctName" type="String" default=""/>

Text label="Contid" value="{!v.Conid}"/>
Text label="Contname" value="{!v.ContactName}"/>
Number label="Coupon amount" value="{!v.Amount}"/>
        <ui:inputNumber label="Coupon Tenure" value="{!v.Tenure}"/>
        <h2>Maturity Amount will be :</h2><ui:outputNumber value="{!v.Maturity}"/>
    <br/><ui:button label="Calculate coupon returns" press="{!c.calculate1}"/>
```

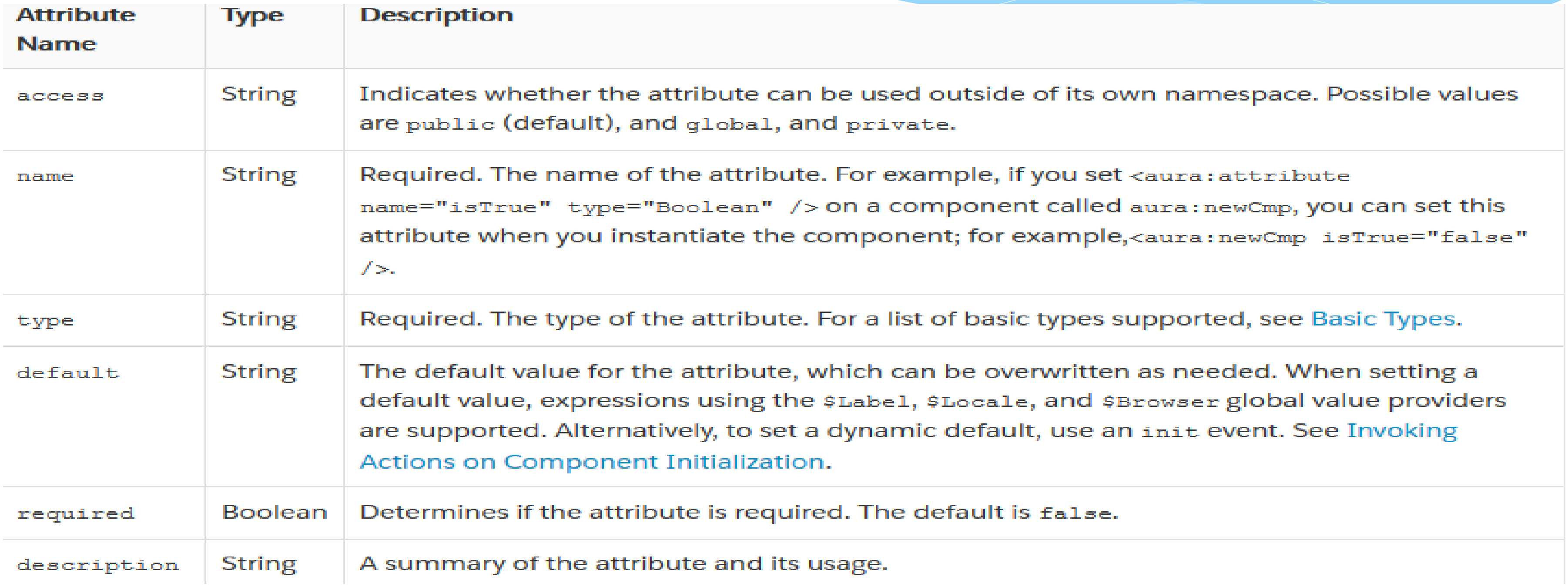
Building the basic component

* Add Attributes and Tags to you component
* Define the attributes(variables)
* Call methods created in Component controller
* Warning :attributes name are case sensitive ,so reference in value attribute inside ui tags should have same case



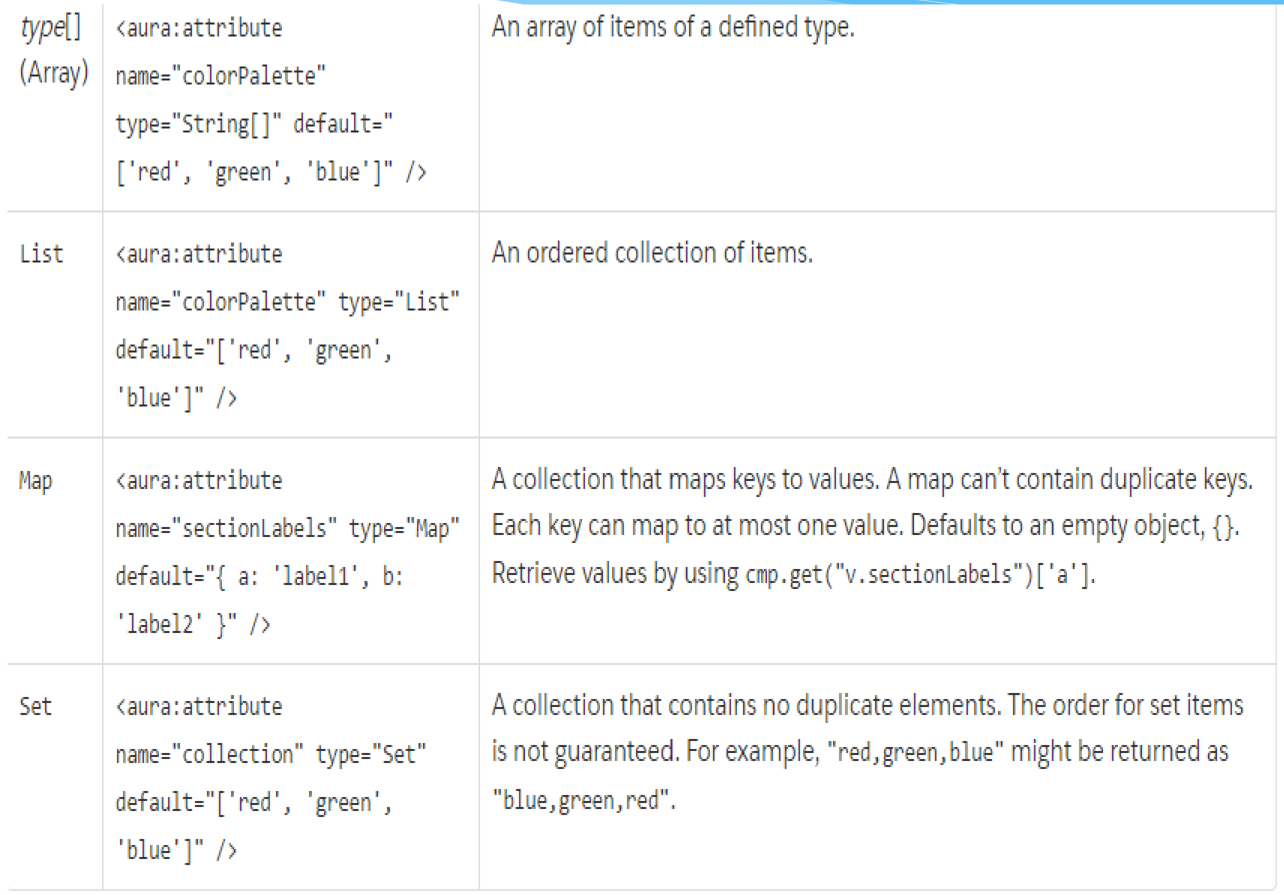
```
<aura:component controller="ContactController">
    <aura:attribute name="Amount" type="double" default="25000"/>
    <aura:attribute name="Tenure" type="double" default="12"/>
    <aura:attribute name="Maturity" type="double" default="34"/>
    <aura:attribute name="Conid"  type="String" default=""/>
    <aura:attribute name="ContactName" type="String" default=""/>
<div>
        <ui:inputText label="Contid" value="{!v.Conid}"/>
        <ui:inputText label="Contname" value="{!v.ContactName}"/>
        <ui:inputNumber label="Coupon amount" value="{!v.Amount}"/>
        <ui:inputNumber label="Coupon Tenure" value="{!v.Tenure}"/>
        <h2>Maturity Amount will be :</h2><ui:outputNumber value="{!v.Maturity}"/>
    <br/><ui:button label="Calculate coupon returns" press="{!c.calculate1}"/>
 </div>
    <aura:handler name="change" value="{!v.Conid}" action="{!c.getcontactname}"/>
</aura:component>
```

What are Aura attributes? :Variables !!



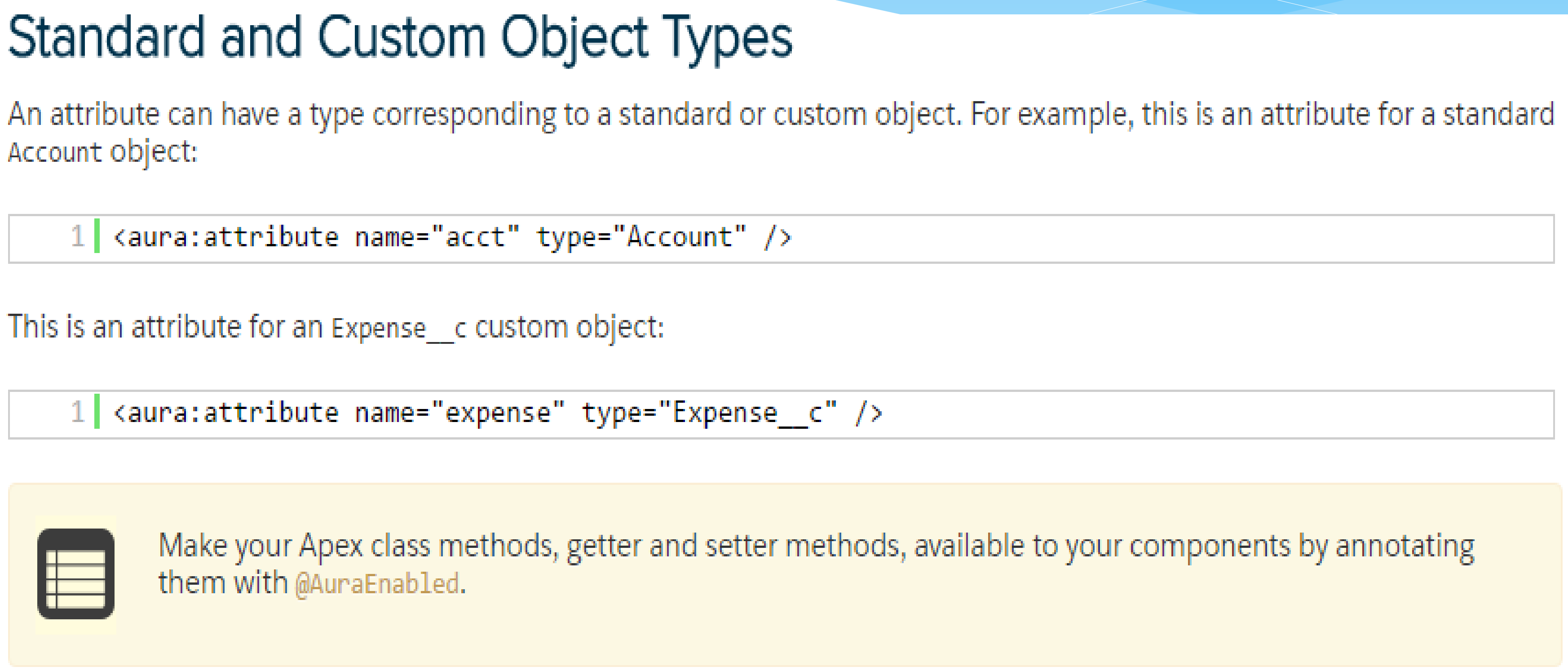
Attribute Name	Type	Description
`access`	String	Indicates whether the attribute can be used outside of its own namespace. Possible values are `public` (default), and `global`, and `private`.
`name`	String	Required. The name of the attribute. For example, if you set `<aura:attribute name="isTrue" type="Boolean" />` on a component called `aura:newCmp`, you can set this attribute when you instantiate the component; for example,`<aura:newCmp isTrue="false" />`.
`type`	String	Required. The type of the attribute. For a list of basic types supported, see Basic Types.
`default`	String	The default value for the attribute, which can be overwritten as needed. When setting a default value, expressions using the `$Label`, `$Locale`, and `$Browser` global value providers are supported. Alternatively, to set a dynamic default, use an `init` event. See Invoking Actions on Component Initialization.
`required`	Boolean	Determines if the attribute is required. The default is `false`.
`description`	String	A summary of the attribute and its usage.

Aura attributes



type[] (Array)	`<aura:attribute name="colorPalette" type="String[]" default="['red', 'green', 'blue']" />`	An array of items of a defined type.
`List`	`<aura:attribute name="colorPalette" type="List" default="['red', 'green', 'blue']" />`	An ordered collection of items.
`Map`	`<aura:attribute name="sectionLabels" type="Map" default="{ a: 'label1', b: 'label2' }" />`	A collection that maps keys to values. A map can't contain duplicate keys. Each key can map to at most one value. Defaults to an empty object, {}. Retrieve values by using `cmp.get("v.sectionLabels")['a']`.
`Set`	`<aura:attribute name="collection" type="Set" default="['red', 'green', 'blue']" />`	A collection that contains no duplicate elements. The order for set items is not guaranteed. For example, `"red,green,blue"` might be returned as `"blue,green,red"`.

Aura Attributes



Standard and Custom Object Types

An attribute can have a type corresponding to a standard or custom object. For example, this is an attribute for a standard `Account` object:

```
<aura:attribute name="acct" type="Account" />
```

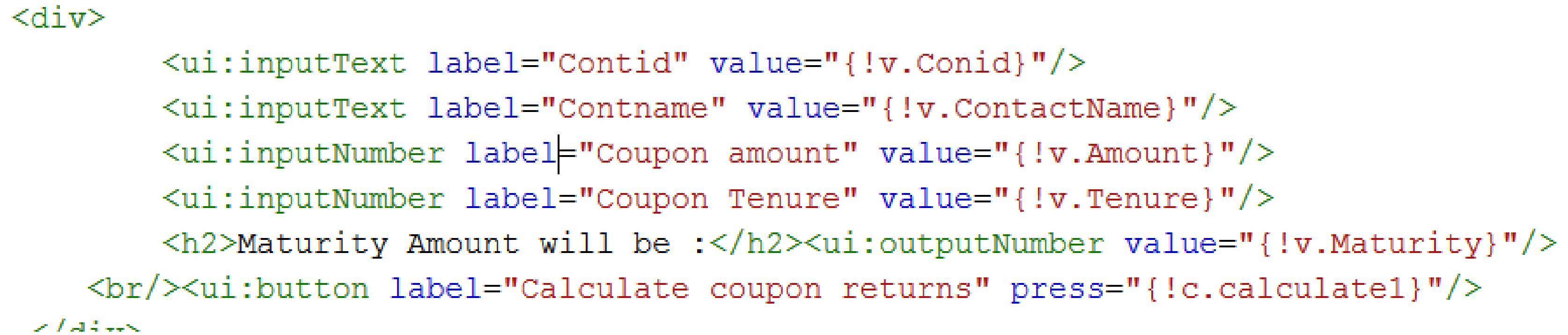
This is an attribute for an `Expense__c` custom object:

```
<aura:attribute name="expense" type="Expense__c" />
```

Make your Apex class methods, getter and setter methods, available to your components by annotating them with `@AuraEnabled`.

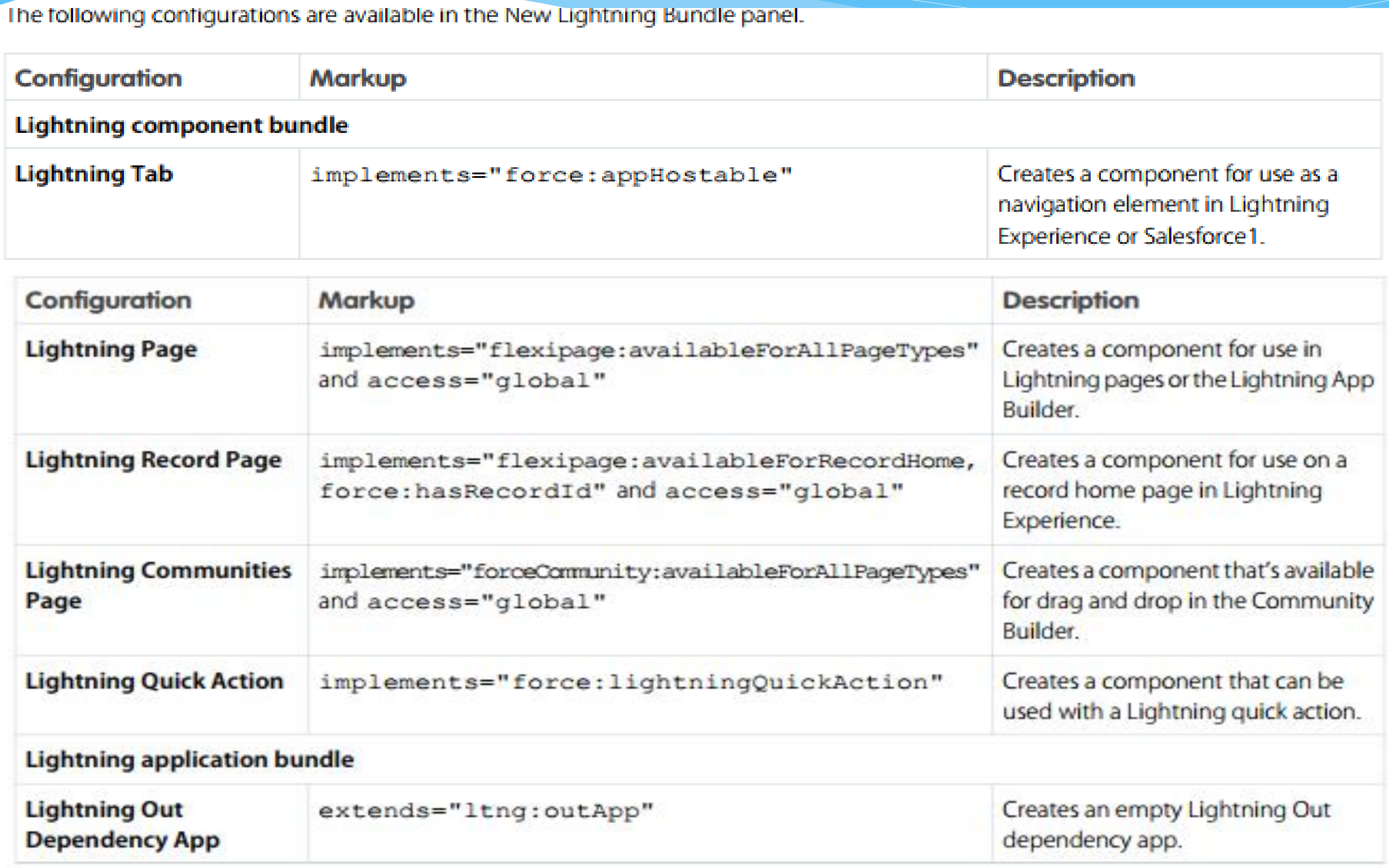
Tags

* For example : Tag Input text accepts text values and are stored in the variable defined in “value” parameter
* <ui:inputText label="Contid" value="{!v.Conid}"/> v.Conid means variable reference
* <br/><ui:button label="Calculate coupon returns" press="{!c.calculate1}"/> invokes component controller method



```
<div>
        <ui:inputText label="Contid" value="{!v.Conid}"/>
        <ui:inputText label="Contname" value="{!v.ContactName}"/>
        <ui:inputNumber label="Coupon amount" value="{!v.Amount}"/>
        <ui:inputNumber label="Coupon Tenure" value="{!v.Tenure}"/>
        <h2>Maturity Amount will be :</h2><ui:outputNumber value="{!v.Maturity}"/>
    <br/><ui:button label="Calculate coupon returns" press="{!c.calculate1}"/>
 </div>
```

Implement tag – affects your component visibility



The following configurations are available in the New Lightning Bundle panel.

Configuration	Markup	Description
Lightning component bundle		
Lightning Tab	`implements="force:appHostable"`	Creates a component for use as a navigation element in Lightning Experience or Salesforce1.
Lightning Page	`implements="flexipage:availableForAllPageTypes"` and `access="global"`	Creates a component for use in Lightning pages or the Lightning App Builder.
Lightning Record Page	`implements="flexipage:availableForRecordHome, force:hasRecordId"` and `access="global"`	Creates a component for use on a record home page in Lightning Experience.
Lightning Communities Page	`implements="forceCommunity:availableForAllPageTypes"` and `access="global"`	Creates a component that's available for drag and drop in the Community Builder.
Lightning Quick Action	`implements="force:lightningQuickAction"`	Creates a component that can be used with a Lightning quick action.
Lightning application bundle		
Lightning Out Dependency App	`extends="ltng:outApp"`	Creates an empty Lightning Out dependency app.

Tags -Miscellaneous

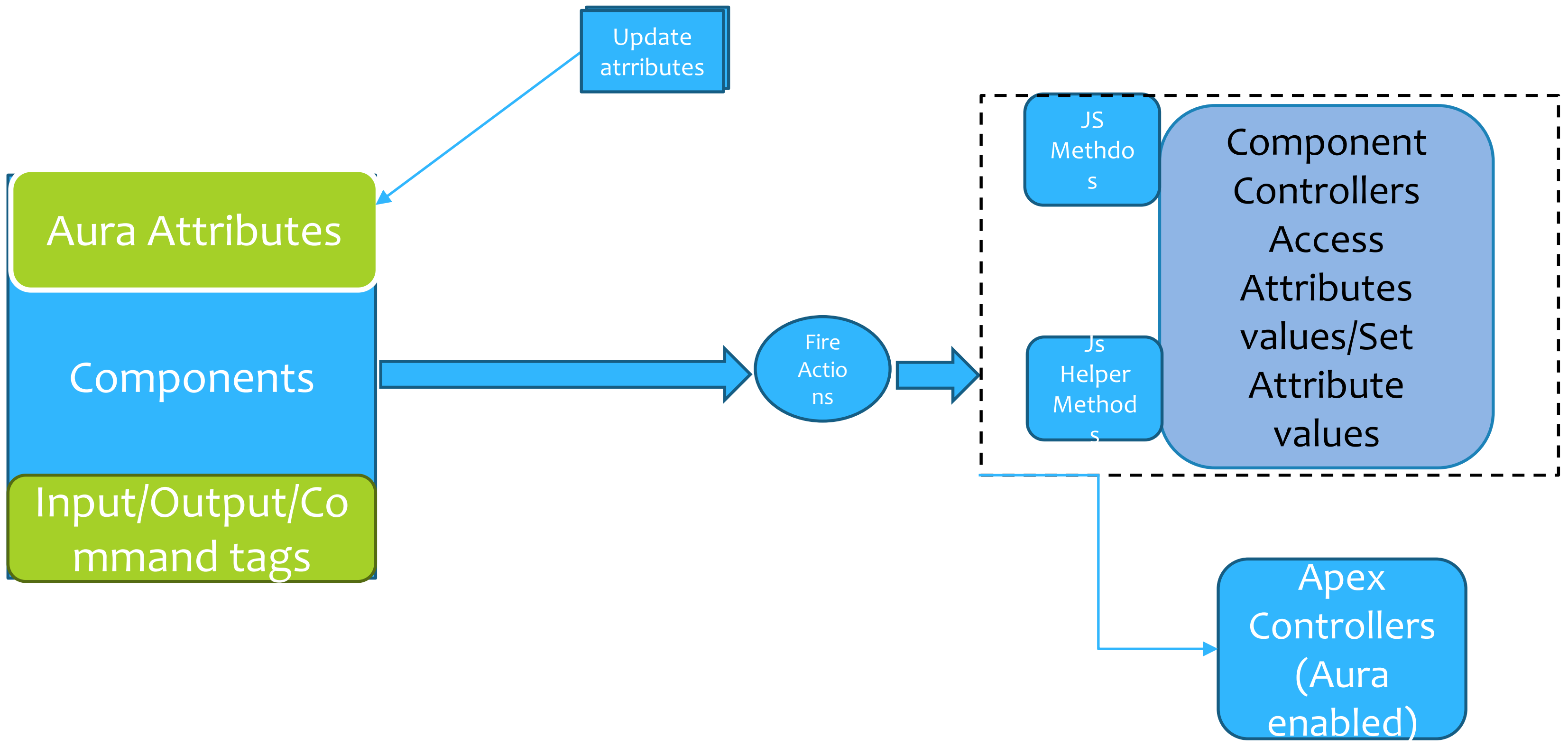
- <aura:html tag="div" /> Html tag We recommend that you use components in preference to HTML tags. For example, use lightning:button or ui:button instead of <button>.

- <aura:set > is used set attributes of inherited components
- Inherited components –example inheritance
- Embedded components –example testuicontact header

- <aura:component extends=c:component> can extend component

Adding transaction Logic using Component Controllers

* How components become Interactive

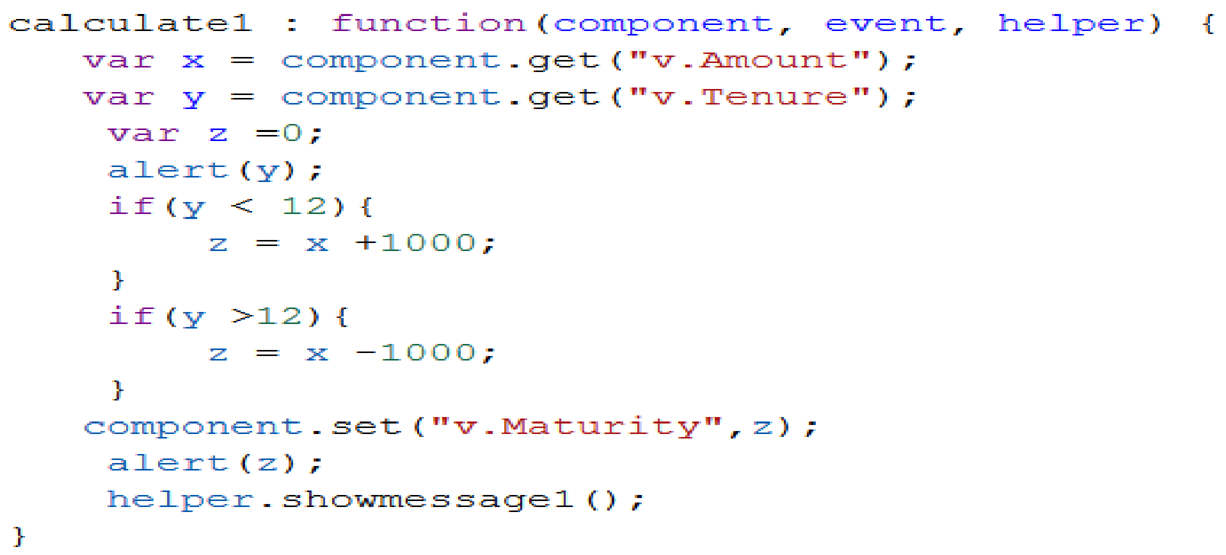

Update atrributes
Aura Attributes
Components
Input/Output/Command tags
Fire Actions
JS Methods
JS Helper Methods
Component Controllers Access Attributes values/Set Attribute values
Apex Controllers (Aura enabled)

Adding Logic using component Controllers

- This section can hold multiple methods,enclose by ({method1},{method2}) and separate methods by “,”
- Lets understand the method signature
- Component parameter is reference to the same component
- Component attributes can be accessed using this param
- var x = component.get("v.Amount"); or they can also be set
- Helper parameter are addition javascript libraries you can access

Adding Logic using component Controllers

- Click on the Controller option in the menu in lightning
- This will open you javascript controller window
- Enter your code here



```
calculate1 : function(component, event, helper) {
   var x = component.get("v.Amount");
   var y = component.get("v.Tenure");
    var z =0;
    alert(y);
    if(y < 12){
        z = x +1000;
    }
    if(y >12){
        z = x -1000;
    }
   component.set("v.Maturity",z);
    alert(z);
    helper.showmessage1();
}
```

Concept of Helper methods

- Click on the Helper component within developer console to open workbench window
- Put functions that you want to reuse in the component’s helper. Helper functions also enable specialization of tasks, such as processing data and firing server-side actions.
- A helper function can be called/shared from any JavaScript code in a component’s bundle, such as from a client-side controller or renderer Sharing

```
({
        showmessage1 : function() {
                alert('hi helper method 1 is working');
        },
        showmessage2 : function() {
                alert('hi helper method 2 is working')
        }
})
```

Aura:handler

- Important tag at ui level
- Used to detect field value changes in fields in UI aura: markups,similar to action support
- Used to handle lightning events
- Used to fire actions at component initialisation

Storing Data temporarily

- sessionStorage.removeItem("lastvalue");
- sessionStorage.setItem("lastvalue", x);
- var z=
        parseInt(sessionStorage.getItem("lastvalue")) +
  +parseInt(component.get("v.firstvalue"));

Field Validations

- Use aura id to designate an id to a field.
- <ui:inputNumber aura:id="tenure" label="Coupon Tenure" value="{!v.Tenure}"/>
- Find component using var inputcmp component.find(“tenure”); and store in variable
- Access values using var val =inputcmp.get("v.value")
- Set errors using inputcmp.set("v.errors",[{message :'Value cant be greater than 21 using compset'}]);
- If we use component.find,lightning provides us with variable v.errors against the component specifically to show errors

Changing classes dynamically,Showing and hiding markup

- { applyCSS: function(cmp, event)
- { var cmpTarget = cmp.find('changeIt');
- $A.util.addClass(cmpTarget, 'changeMe'); },
- removeCSS: function(cmp, event)
- { var cmpTarget = cmp.find('changeIt');
- $A.util.removeClass(cmpTarget, 'changeMe'); } }

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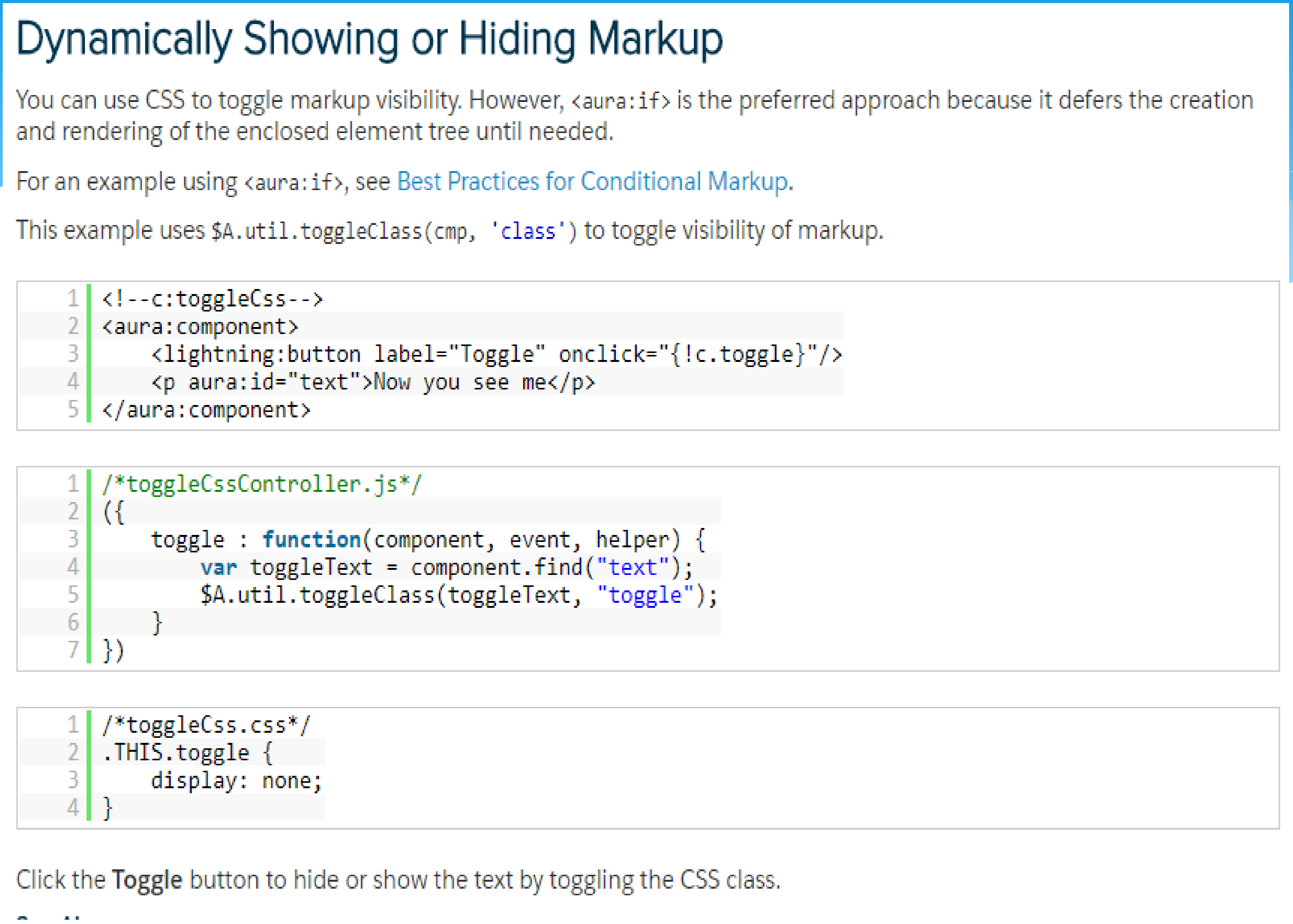
Conditional rendering of tags

* Showing and hiding tags and divs based on critiera
* <aura:if isTrue="{!v.edit}">
* Any section within this will be conditional displayed based on attribute value
* Render Div based on renderred tags
* Enable disable buttons using disabled="true“ tag



Dynamically Showing or Hiding Markup

You can use CSS to toggle markup visibility. However, `<aura:if>` is the preferred approach because it defers the creation and rendering of the enclosed element tree until needed.

For an example using `<aura:if>`, see Best Practices for Conditional Markup.

This example uses `$A.util.toggleClass(cmp, 'class')` to toggle visibility of markup.

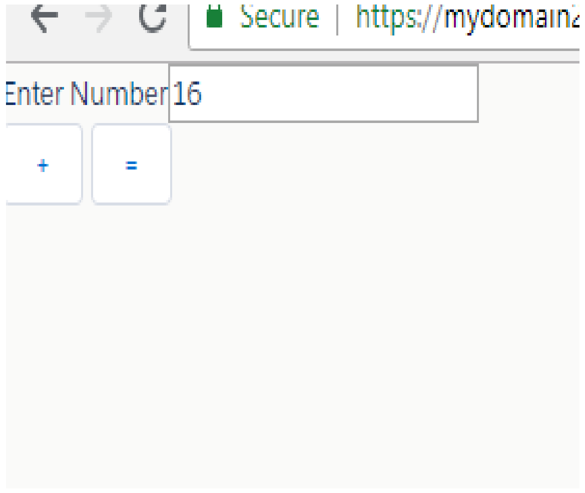
```
<!--c:toggleCss-->
<aura:component>
    <lightning:button label="Toggle" onclick="{!c.toggle}"/>
    <p aura:id="text">Now you see me</p>
</aura:component>
```

```
/*toggleCssController.js*/
({
    toggle : function(component, event, helper) {
        var toggleText = component.find("text");
        $A.util.toggleClass(toggleText, "toggle");
    }
})
```

```
/*toggleCss.css*/
.THIS.toggle {
    display: none;
}
```

Click the **Toggle** button to hide or show the text by toggling the CSS class.

Labs:Create Calculator App



How are components rendered

- Components can be embedded in an Lightning application
- Expose them as lightning tabs or Apps
- Expose them as standard button overrides
- Within Developer console you can only preview application containing components
- Redirection may not happen within developer console
- Practise: Create the component and show it in app/tab