

Unit 1: Study Up on Visualforce

Learning Objectives

After completing this unit, you'll be able to:

- Display or modify Salesforce data using a Visualforce page and the appropriate controllers or extensions as needed.
- Describe the types of web content that can be incorporated into Visualforce pages.
- Incorporate Visualforce pages into Lightning Platform applications.

Key Topics

This module prepares you for the User Interface section of the Platform Developer I exam, which makes up 25% of the overall exam. This section of the exam tests these topics.

- Visualforce pages
- Visualforce controllers

This module includes a number of interactive, real-world, scenario-based questions that are a lot like the ones you can encounter as a Salesforce developer. Looking at these scenarios helps prepare you to take the user interface section of the Platform Developer I exam. As you tackle the practice questions, you get immediate feedback on your answers, along with detailed information on why your answers are correct (or incorrect).


The module includes two units on user interfaces. This unit focuses on Visualforce.

Download the Guide

Would you like a hard copy of the contents in these modules? Each module includes a link to a printable version you can download. Download the [Platform Developer I Certification Prep: User Interfaces guide](#).

Exam Practice Questions

Ready to jump in? The sample tool below is not scored—it's just an easy way to quiz yourself. To use it, read the scenario and click the answer you think is correct. Some questions may have more than one correct answer. Click **Submit** and you get a popup telling you whether the answer you chose is correct or incorrect,

and why; if there's a longer explanation, click  and then click anywhere in the window to close it. When you reach the end, you can review the answers or retake the questions.

Scenario 1

The Review__c object has a lookup relationship up to the Job_Application__c object. The Job_Application__c object has a master-detail relationship up to the Position__c object. The relationship field names are based on the auto-populated defaults. What is the recommended way to display field data from the related Review__c records on a Visualforce page for a single Position__c record?

ANSWER

FEEDBACK

A. UTILIZE THE STANDARD CONTROLLER FOR POSITION__C AND EXPRESSION SYNTAX IN THE PAGE TO DISPLAY RELATED REVIEW__C DATA THROUGH THE JOB_APPLICATION__C OBJECT.

Incorrect. You cannot access child record information using only a standard controller. You need to use a controller extension.

B. UTILIZE THE STANDARD CONTROLLER FOR POSITION__C AND CROSS-OBJECT FORMULA FIELDS ON THE JOB_APPLICATION__C OBJECT TO DISPLAY REVIEW__C DATA.

Incorrect. Cross-object formula fields cannot access child records, only the parent fields.

C. UTILIZE THE STANDARD CONTROLLER FOR POSITION__C AND CROSS-OBJECT FORMULA FIELDS ON THE REVIEW__C OBJECT TO DISPLAY REVIEW__C DATA.

Incorrect. Cross-object formula fields cannot access child records, only the parent fields.

D. UTILIZE THE STANDARD CONTROLLER FOR POSITION__C AND A CONTROLLER EXTENSION TO QUERY FOR REVIEW__C DATA.

Correct. A controller extension is the way to query the Review child records while keeping the standard controller functionality.

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Scenario 2

What are two capabilities of a StandardSetController? (Select two answers.)

ANSWER	FEEDBACK
A. IT ALLOWS PAGES TO PERFORM MASS UPDATES OF RECORDS.	Correct. The StandardSetController class also contains a prototype object. This is a single sObject contained within the StandardSetController class. If the prototype object's fields are set, those values are used during the save action, meaning that the values are applied to every record in the set controller's collection. This is useful for writing pages that perform mass updates
B. IT ALLOWS PAGES TO PERFORM PAGINATION WITH LARGE RECORD SETS.	Correct. StandardSetControllers have built-in pagination that helps reduce the number of records displayed on the page.
C. IT EXTENDS THE FUNCTIONALITY OF A STANDARD OR CUSTOM CONTROLLER.	Incorrect. Controller extension classes are the ones that extend the functionality of a standard or custom controller.
D. IT ENFORCES FIELD-LEVEL SECURITY WHEN READING LARGE RECORD SETS.	Incorrect. The StandardSetController does not enforce field-level security.

Scenario 3

A Visualforce page has a standard controller for an object that has a lookup relationship to a parent object. How can a developer display data from the parent record on the page?

ANSWER	FEEDBACK
A. USE SOQL ON THE VISUALFORCE PAGE TO QUERY FOR DATA FROM THE PARENT RECORD.	Incorrect. You would need a controller extension to query for the parent data. It is unnecessary since you can use merge field syntax.
B. ADD A SECOND STANDARD CONTROLLER TO THE PAGE FOR THE PARENT RECORD.	Incorrect. ou cannot have two standard controllers on a page.
C. USE A ROLL-UP FORMULA FIELD ON THE CHILD RECORD TO INCLUDE DATA FROM THE PARENT RECORD.	Incorrect. Roll-up formula fields are used to retrieve summarized data from child records when the relationship is master detail. In this case we need the parent record's information.
D. USE MERGE FIELD SYNTAX TO RETRIEVE DATA FROM THE PARENT RECORD.	Correct. ou can use related merged fields to get the data from the parent record. The relative fields are prepended to __r.

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Scenario 4

What are two reasons that a developer should use a custom Visualforce page in a Lightning Platform application? (Select two answers.)

ANSWER	FEEDBACK
A. TO GENERATE A PDF DOCUMENT WITH APPLICATION DATA	Correct. Currently a Visualforce page is required to render a PDF document.
B. TO CREATE COMPONENTS FOR DASHBOARDS AND LAYOUTS	Correct. You can embed a Visualforce page anywhere in your Salesforce dashboard as a standard component.
C. TO DEPLOY COMPONENTS BETWEEN TWO ORGANIZATIONS	Incorrect. You can do this using the standard Salesforce UI.
D. TO MODIFY THE PAGE LAYOUT SETTINGS FOR A CUSTOM OBJECT	Incorrect. You can do this using the standard Salesforce UI.

Scenario 5

A developer needs to create records for the object Property__c. The developer creates the following code block.

```
01 List<Property__c> propertiesToCreate = helperClass.createProperties();  
02 try {  
03  
04 } catch (Exception exp) {  
05 //Exception handling 06 }
```

Which line of code should the developer insert at line 03 to ensure that at least some records are created, even if a few records have errors and fail to be created?

ANSWER	FEEDBACK
A. INSERT PROPERTIESTOCREATE;	Incorrect. If there are errors while inserting any of the records, the insert will fail. Correct. This stems from the method Database.insert(recordToInsert, allOrNone) where 'allOrNone' is a Boolean value. If the Boolean value is set to false and a record fails, the remainder of the DML operation will succeed. If it's set to true an exception is thrown if the method is not completely successful.
B. DATABASE.INSERT(PROPERTIESTOCREATE,FALSE);	
C. DATABASE.INSERT(PROPERTIESTOCREATE,SYSTEM.ALLOW_PARTIAL);	Incorrect. System.ALLOW_PARTIAL is not a valid parameter inside this method.
D. DATABASE.INSERT(PROPERTIESTOCREATE);	Incorrect. If there are errors while inserting any of the records the insert will fail.

Exam Topic Flashcards

Each unit also includes interactive flashcards to help you to brush up on some of the key topics you'll find on this part of the exam.



Read the question or term on each card, then click the card to reveal the correct answer. Click the right-facing arrow to move to the next card, and the left-facing arrow to return to the previous card.

Question/Term	Answer/Definition
What is the preferred way to reference web content such as images, stylesheets, JavaScript, and other libraries that are used in Visualforce pages?	Upload the content as a static resource.
What is the name of the controller for a Visualforce page that is used to override the standard Opportunity view button?	The Opportunity StandardController for pre-built functionality
Which two tags do you use to load external JavaScript files into a Visualforce page?	<code><apex:includeScript></code> tag and <code><script></code> tag
Name the type that the Boolean will inherit from? Boolean b = true;	Object

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Related Badges

Looking for more information? Explore these related badges.

Badge	Content Type
 Lightning Experience Development	Module
 Visualforce Basics	Module

Next, let's review the Lightning Component framework.

Unit 2: Review the Lightning Component Framework


Learning Objectives

After completing this unit, you'll be able to:

- Describe the benefits of the Lightning Component framework.
- Describe the types of content that can be contained in a Lightning component.

Exam Practice Questions

This unit focuses on the Lightning Component framework. If you are ready to test your knowledge check out the sample tool below.

Ready to jump in? The sample tool below is not scored—it's just an easy way to quiz yourself. To use it, read the scenario and click the answer you think is correct. Some questions may have more than one correct answer. Click **Submit** and you get a popup telling you whether the answer you chose is correct or incorrect, and why; if there's a longer explanation, click  and then click anywhere in the window to close it. When you reach the end you can review the answers or retake the questions.

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Scenario 1

Which two resources can you include in a Lightning component bundle? (Select two answers.)

ANSWER	FEEDBACK
A. ADOBE FLASH	Incorrect. This is not part of the Lightning component bundle.
B. HELPER	Correct. A component bundle contains a component or an app and all its related resources, including helpers.
C. APEX CLASS	Incorrect. This is not part of the Lightning component bundle.
D. DOCUMENTATION	Correct. A component bundle contains a component or an app and all its related resources, including documentation.

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Scenario 2

What is a benefit of the Lightning Component framework?

ANSWER	FEEDBACK
A. IT AUTOMATICALLY REPLICATES THE CLASSIC SALESFORCE LOOK AND FEEL	Incorrect. The Lightning Component framework has a different look and feel called Salesforce Lightning Design System (SLDS).
B. BETTER INTEGRATION WITH SALESFORCE SITES	Incorrect. The Lightning Component framework does not provide a better integration with Sites.
C. MORE CENTRALIZED CONTROL VIA SERVER-SIDE LOGIC	Incorrect. In the Lightning Component framework, most of the logic is performed in the front end.
D. BETTER PERFORMANCE FOR CUSTOM SALESFORCE MOBILE APPS	Correct. The Lightning Component framework has out-of-the-box components that function seamlessly with mobile devices.

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Exam Topic Flashcards

Use these interactive flashcards to review some key topics that you'll find on the Lightning Component framework part of the exam.


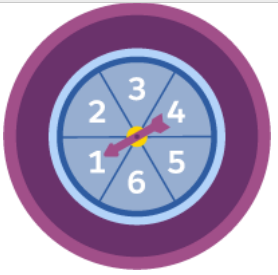
Read the question or term on each card, then click the card to reveal the correct answer. Click the right-facing arrow to move to the next card, and the left-facing arrow to return to the previous card.

Question/Term	Answer/Definition
Which tag do you use to display individual fields from a record?	<lightning:outputField>
Lightning components are available in what three products?	Salesforce Mobile App, Communities, and Lightning Experience
What is the suffix for a Lightning Component resource?	cmp
Name three data types or collection of data types that SOQL statements populate or evaluate to.	An integer, a single sObject, or a list of sObjects
True or false: Lightning Components provide an auto-subscription mechanism for platform events.	False

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Related Badges

Looking for more information? Explore these related badges.

Badge	Content Type
 Aura Components Core Concepts	Module
 Aura Components Skills & Tools	Module

Great work! That's a wrap for the user interface section of the Platform Developer I exam. Happy studying.