**Visual force page**

What is visual force?

Visual force is frame work that helps developers to build sophisticated .it helps better ui .visual force is a Tag-Based markup language similar like HTML

**They two types**

1 visual force markup-means it consist of markup tags and html tags

2 visual force controller –two controller’s 1-standard controller 2-custom controller

**Where can visual face pages used?**

Override the standard buttons like new and edit buttons

Override tab overview pages like account and home tab

**What are the benefits of the visual force?**

User friendly development

Integration with other user web based technologies

Model-view-controller

Concise syntax

Data driven syntax

Hosted platform

Automatically upgradable

**Visual force page consist two primary elements**

1-visualforce markup

2-visualforce controller

**Visual force markup:**

Visual force markup consist of visual force tags and HTML java script or any other web-enabled code with in a single **<apex: page>** the **markup defines** the **user interface component** that should be included on the page and the way it should be appeared

**Visual force controller:**

A visual force controller is set of instructions that specifies what happens when the user is interfaces with the component

Controller also provide access to the data that should be displayed in a page

Developer can use standard controller developed by the FORCE.COM or add a custom controller logic written in a apex class

**Standard Pages**

Standard controller having same functionality and logic that is used for a standard salesforce pages

If we use a standard page controller on a page if user doesn’t have a permission on that page, the page will be displayed **insufficient privilege**. We can avoid this error message by checking user accessibility

1-Associating a standard controller with a visual force page

2-Accessing the data with standard controller

3-Using standard controller actions

4-Validations rules and standard controller

4-Styling pages that we use standard controller

5-Checking the Object Accessibility

6-Custom Controller and Controller Extension

1. **Associating the standard controller with visual force page:**

To associate a standard controller with a visual force page use the standard controller attribute on the **<apex: page>** tag and assign it the name of any salesforce object that can be queried

When you are using standard controller attribute on the tag you cannot use the controller attribute at same time

2**. Accessing the data with standard controller.**

Every standard controller includes a getter method that returns the record specified by the **id**

This method associated with page markup to reference field on the contest of record by using

{! object. Fieldname} ex: {! account. Phone}

When standard controller have getter method, the record specified by the ID query string parameter in the URL must be the same type of the standard controller

Ex: **Page using the Account standard controller it should only return account record if a contact record specified by the ID query string parameter and it doesn’t return anything**

**You can traverse up to five levels of child to parent relationship**. If you are using contact standard controller you can use **{!.Contact. Account. Owner. First name}**

**You can traverse one level of parent to child relationship**. If we are using account standard controller you can use **{! account. Contact**} to return an array of contact which is linked to the account record

3. **Using standard controller actions**

Action method performs logic or navigate when a page event occurs (when user clicks the button or hover over the page**). Action method can be called from the page by markup by using {!}**

<Apex: command button> create button on the page that calls action

<Apex: command link> create link on the page that calls action

<Apex: action poller> periodically calls an action

<Apex: action support> makes an event (like on click or mouse over) on another, calls an action

<Apex: action function> define a JavaScript function that calls an action

<Apex: page> calls an action when a page is loading

**Save**

**Quick Save**

**Edit**

**Delete**

**Cancel**

**List**

**Validation rule and standard controller:**

If a user enters the data into the visual force page that uses a standard controller and that data causes a validation rule error the error can be displayed on the visual force page if the validation rule error located is a field associated with an <Apex: input field > component the error displays their if the validation rule error located is set to the top of the page use the <apex: page message> or <apex: message>

**Styling pages that uses standard controller:**

Any page that uses the standard controller automatically inherit the style that uses the standard salesforce page

We can override the styling of a page that uses the standard controller with the **tab style attribute**

**Checking for object accessibility**

If a user have insufficient user privileges to view an object any visual force pages that uses a controller to render the object will be inaccessible to avoid this error you should ensure that your visual force component will only render if a user has a access to to object associated the controller

You can the check the accessibility by this

{! $object type. Object name .accessibility}

**Standard list controller:**

Standard list controller allow you to create visual force pages that can display or act on a set of records

Examples of predefine salesforce list pages:

**•** Account

**•** Asset

**•** Campaign

**•** Case

**•** Contact

**•** Contract

**•** Idea

**•** Lead

**•** Opportunity

**•** Order

**•** Product2

**•** Solution

**•** User

**•** Custom objects

**Associating the standard list controller with visual force pages**

Standard list controller is very similar to standard controller attribute on the <apex: page> component then you set the **recordsetvar** on the same component

The **recordsetvar** attribute not only indicates that the page uses the list controller it sets the variable name of the record collection the variable can be used to access data in the record collection

No more than 10000 records queried by standard list controller

**Using standard list controller actions**

Action method performs logic

**Save**

**Quick save**

**List**

**Cancel**

**First**

**Last**

**Next**

**Previous**

**Custom controller and controller extension:**

Standard controller provide all the functionalities you need for visual force

**However if you want to override the standard functionalities customize the navigation through an application use the callouts or web service if you want to control for how information is accessing In your page you can write custom controller or controller extension**

**What are the custom controller and custom controller extensions?**

A custom controller is an apex class that implement all of the logic for a page without leveraging the standard controller use custom controller when you want to run your visual force page to run entirely system mode

If we want to leverage the build in functionalities of the standard controller but override the one or more functionalities such as edit view save delete

You want to add new actions

If you to create a visual force page that respects user permissions although controller extension class executes in system mode