Controllers of a Visualforce Page

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The Controllers of a Visualforce Page are the logical part that we must know to create and manage quality applications.

Controller Types

Standard Drivers

- Standard controllers are used to manage custom and default objects
- Contains the functionality and logic used by standard Salesforce pages
- They are included in the apex: page tag as follows: <apex: page standardController = "Account">
- Its values can be accessed via force.com API as {! Account.Name}

Custom Drivers

- They can be used to overwrite functionality, navigation and calls to web services.
- It uses its default **constructor**, without arguments, that is, **without parameters**
- The methods of a standard controller can be getters, setters, and actions

```
//MyCustom Controller
         public class MyCustomController {
             Account acc;
             public MyCustomController () {
               acc = [SELECT Id, Name FROM Account
                         WHERE Id =: ApexPages.currentPage().getParameters().get('id')];
    10
             public Account getAccount () {
eleven
               return acc;
    12
    13
         <!-- Visualforce page -->
         <apex:page controller="MyCustomController">
           <apex:pageBlock>
             <apex:pageBlockSection>
               <apex:pageBlockTable value="{! account }" var="acc">
                 <apex:column value="{! acc.Id }" />
<apex:column value="{! acc.Name }"/>
               </apex:pageBlockTable>
             </apex:pageBlockSection>
           </apex:pageBlock>
eleven </apex:page>
```

Getter methods

- Every value calculated and to be displayed in a visualforce page must have a getter method in the controller.
- The name of the getter methods should always be prefixed get at startup. For example: getAccounts .
- With the markup {! name_of_expression} you can automatically connect a visualforce page with the getter method . For Example: {! accounts} connects with the getter method getAccounts.
- The getter methods do not have parameters but they must return an object .
- They must have at least a Public access level.
- A getter method is **required** to **access the data** of an object from a controller to a visualforce page.
- A getter method can get data using SOQL queries .

```
//Getter example code
public class MyCustomController {
    Account acc;

public Account getAccount () {
    return acc;
    }
}
```

Setter methods

- They are used to **send data** from a visualforce page **to the controller**
- Setter methods are not required.
- These methods are executed automatically before of the methods actions
- Your name must start with the prefix set . For example: setVariable, the variable value must be obtained from a visualforce page.

- They must have at least one level of public access
- The setter method has one parameter and does not return a value .

```
//Setter example code
            public class MyCustomController {
      two
              Account acc;
              String accountName;
              public Account getAccount () {
                acc = [SELECT Id, Name FROM Account
                          WHERE Id =: ApexPages.currentPage().getParameters().get('id')];
                return acc;
        10
   eleven
       12
               public String getAccountName () {
       13
                return accountName;
       14
   fifteen
              //Setter Method
              public void setAccountName(String value) {
       16
       17
                accountName = value;
       18
       19
              public PageReference save () {
    twenty
twenty-one
                acc.Name = accountName;
       22
                update acc;
     2. 3
                return null;
       24
       25 }
     <!-- Setter visualforce page example -->
     <apex:page controller="MyCustomController">
         <apex:outputLabel value="Enter account: " />
          <apex:inputText value="{!accountName}" />
          <apex:commandButton value="Save" action="{!Save}" /> 
         <apex:outputText value="Account Name entered: {!accountName}" />
        </apex:form>
     </apex:page>
```

Properties for using Getter and Setter methods

- We can represent a method get and set the sentences get and September . For example: public dataType propertyName {get; set;}
- If a property has a single **get** statement, it is **read-only.**
- If a property has a single **set** statement , it is **write-only.**
- Properties with get and set statements are considered read and write.

```
public class MyCustomController {
    public Account acc {get; set;}

    public String accountName {get; set;}

    public String accountPhoneNumber {get;}

    public String accountFile {set;}

    public String accountFile {set;}
```

Driver Extensions

Controller extensions are classes in Apex that can **extend** the **functionality** of standard or custom controllers.

- We can call a controller extension using the **extension** keyword in the **<apex: page>** tag of our visualforce page.
- Multiple controller extensions can be used in a visualforce page by separating them with commas
- They must have a constructor with a single argument of type ApexPages.StandardController to initialize their values.

```
public class MyControllerExtension {
    private final Account acc;

public MyControllerExtension(ApexPages.StandardController stdController) {
    this.acc = (Account)stdController.getRecord();
}

public String getGreeting () {
    return 'This is a greeting message for: ' + this.acc.Name;
}

eleven
    }
}
```

Content Subscriptions Gian Test +

This is a greeting message for: Gian Account

Gian Account

Save