



Visualforce UI - APEX Controller and Apex TEST-WORKSHOP

Create a UI with Visualforce the same as in the Shared file. You should use the following **visualforce** tags. **<apex: with**

- page
- tabPanel
- tab
- form
- pageBlock
- pageBlockSection
- outputText
- input
- inputText
- commandButton
-
- pageBlockTable
- column

Then you need to write **Apex Controller (Not Standard Controller)** Then you need to create **APEX Test class** for this apex controller. Eliminate the errors such as

- below 0 values
- over values
- above the limit values etc.

If this is easy for you you can continue like that.

- Call future methods from your apex controller and write test for them.
- Create more UI tab for other salesforce objects.
- -----

Bu workshop için 3 göreviniz var.

1ncisi Sizinle paylaşılan dokümandaki ekran görüntüsünü visualforce ile oluşturmak.

2ncisi bu visualforce ekranındaki işlevlerin çalışabilmesi için APEX controller.

3ncüsü yazmış olduğunuz APEX Controller için bir TEST APEX kodu.

Workshop için 2 object kullanabilirsiniz. Account ve Contact.

Account tab'ı tıklandığında sizi Account ile ilgili test verisi oluşturmaya götüren bir ekrana ulaşıyorsunuz.

Name prefix alanına account isminde yer alması gereken ifadeyi yazıyorsunuz. how many kısmına ise kaç adet account oluşturulacağını yazıyorsunuz. create dediğinizde bu accountlar oluşmalı ve show data sekmesinin en altında oluşan dataların da görüntülenmesi gerekiyor.

Ayrıca Search name kısmına bir arama kelimesi yazdığınızda bu kelimeyi account isimlerinde aramalı ve aşağıda listelemeli. (search butonuna basıldığında.) Delete butonuna bastığınızda ise bu hesapların silinmesi gerekiyor.

Aynı işlemler contact için de geçerli. contact objesinde isim yada soy isime göre arama ve silme işlemi yapılacak. ekleme işleminde de isim ve soy isim yazılması gerekiyor.

Kodlarınızın düzgün çalışması ve hata almaması için de test apex methodlarınızın da yazılmasını istiyorum.

The screenshot shows a web application interface with two tabs: 'Account' and 'Contact'. The 'Account' tab is selected. Under the 'Account' tab, there are two sections: 'Create Test Data' and 'Show Data'. The 'Create Test Data' section has two input fields: 'Name Prefix' and 'How Many', followed by a 'Create' button. The 'Show Data' section has a 'Search Name' input field, a 'Search' button, and a 'Delete' button. Below the 'Show Data' section, there is a table with two columns: 'First Name' and 'Last Name'. The table contains 19 rows of data, with 'First Name' values ranging from 'alex 1' to 'alex 19' and 'Last Name' values ranging from 'victor 1' to 'victor 19'.

The screenshot shows the 'Contact' tab in the web application. The 'Create Test Data' section has 'First Name' set to 'alex' and 'Last Name' set to 'victor', with 'How Many' set to '22'. The 'Show Data' section has a 'Search Name' input field and 'Search' and 'Delete' buttons. Below the 'Show Data' section, there is a table with two columns: 'First Name' and 'Last Name'. The table contains 19 rows of data, with 'First Name' values ranging from 'alex 1' to 'alex 19' and 'Last Name' values ranging from 'victor 1' to 'victor 19'.

The screenshot shows the Salesforce IDE interface. The 'testDataControllerTestMethod.apxc' file is open. The 'Tests' tab is active, displaying a list of test runs and their results. The 'Overall Code Coverage' table is also visible, showing 100% coverage for the 'testDataController' class.

Status	Test Run	Enqueued Time	Duration	Failures	Total
✓	TestRun @ 12:24:45 am			1	7
✓	TestRun @ 12:26:21 am			0	7
✓	TestRun @ 12:29:03 am			0	8
✓	TestRun @ 12:30:57 am			0	9
✗	TestRun @ 12:32:04 am			1	10
✓	TestRun @ 12:35:44 am			0	10
✓	TestRun @ 12:36:50 am			0	11
✗	TestRun @ 12:39:27 am			1	11
✓	TestRun @ 12:40:13 am			0	11
✓	testDataControllerTestMethod			0	11
✓	Search1	0:00			
✓	createContactTest1	0:00			
✓	createContactTest2	0:00			
✓	createTest1	0:00			
✓	createTest2	0:00			
✓	createTest3	0:00			
✓	createTest4	0:00			
✓	delete1	0:00			
✓	deleteContactTest1	0:00			
✓	searchContactTest1	0:00			
✓	testDataControllerConstructorTest1	0:00			

Class	Percent	Lines
AccountController	100%	0/12
Calc	50%	4/8
clarusway	0%	0/46
ContactController	0%	0/11
devconsoController	0%	0/8
LeadAsync	0%	0/5
LeadBatch	0%	0/7
LeadQueueable	0%	0/5
LeadSchedulable	0%	0/5
LeadTrigger	0%	0/6
LeadTriggerHandler	0%	0/6
msg	0%	0/9
MyController	0%	0/13
OpportunityLineItems	0%	0/36
ProductAddController	0%	0/11
sampleCon	0%	0/13
simpleMathController	0%	0/19
SObjectBatch	0%	0/5
testDataController	100%	59/59

```

<apex:page controller="testDataController" docType="html-5.0">

    <apex:tabPanel >

        <apex:tab label="Account" name="account" id="account">
            <apex:form>

                <apex:pageBlock title="Account">

                    <apex:pageBlockSection title="Create Test Data" columns="5">

                        <apex:pageBlockSectionItem >
                            <apex:outputText > Name Prefix </apex:outputText>
                        </apex:pageBlockSectionItem>

                        <apex:pageBlockSectionItem >
                            <apex:inputText value="{!namePrefix}" label="NamePref" id="NamePref" />
                        </apex:pageBlockSectionItem>

                        <apex:pageBlockSectionItem >
                            <apex:outputText > How Many </apex:outputText>
                        </apex:pageBlockSectionItem>

                        <apex:pageBlockSectionItem >
                            <apex:input value="{!totalCount}" label="How Many" id="totalCount" />
                        </apex:pageBlockSectionItem>

                        <apex:pageBlockSectionItem >
                            <apex:commandButton value="Create" action="{!create}" />
                        </apex:pageBlockSectionItem>

                    </apex:pageBlockSection>

                    <apex:pageBlockSection title="Show Data" columns="3">

                        <apex:pageBlockSectionItem >
                            <apex:outputText > Search Name </apex:outputText>
                        </apex:pageBlockSectionItem>

                        <apex:pageBlockSectionItem >
                            <apex:inputText value="{!containName}" label="containName" id="containName" />
                        </apex:pageBlockSectionItem>

                        <apex:pageBlockSectionItem >
                            <apex:commandButton value="Search" action="{!searchAccountName}" />
                            <apex:commandButton value="Delete" action="{!DeleteAccount}" />
                        </apex:pageBlockSectionItem>

                    </apex:pageBlockSection>

                    <apex:pageBlockTable value="{!multiAcc}" var="singleAcc">
                        <apex:column value="{!singleAcc.Name}" />
                        <apex:column value="{!singleAcc.Phone}" />

                    </apex:pageBlockTable>

                </apex:pageBlock>

            </apex:form>
        </apex:tab>
    </apex:tabPanel>
</apex:page>

```

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        </apex:form>

    </apex:tab>

    <apex:tab label="Contact" name="contact" id="contact">
        <apex:form>

            <apex:pageBlock title="Contact" >
                <apex:pageBlockSection title="Create Test Data" >

                    <apex:inputText value="{!fName}" label="First Name" id="fName" />

                    <apex:inputText value="{!lName}" label="Last Name" id="lName" />

                    <apex:input value="{!totalCount}" id="ContactCount" label="How Many" />

                    <apex:commandButton value="Create" action="{!createContact}" />

                </apex:pageBlockSection>

                <apex:pageBlockSection title="Show Data" >

                    <apex:inputText value="{!sfName}" id="firstName" label="First Name" />
                    <apex:inputText value="{!slName}" id="lastName" label="Last Name" />

                    <apex:commandButton value="Search" action="{!searchContact}" />
                    <apex:commandButton value="Delete" action="{!deleteContact}" />

                </apex:pageBlockSection>

                <apex:pageBlockTable value="{!multiContact}" var="singleCont">
                    <apex:column value="{!singleCont.firstName}" />
                    <apex:column value="{!singleCont.lastName}" />

                </apex:pageBlockTable>

            </apex:pageBlock>

        </apex:form>

    </apex:tab>

</apex:tabPanel>

</apex:page>

<apex:page controller="testDataController" docType="html-5.0">

```

```

<apex:tabPanel >

<apex:tab label="Account" name="account" id="account">
  <apex:form>

    <apex:pageBlock title="Account">

      <apex:pageBlockSection title="Create Test Data" columns="5">

        <apex:pageBlockSectionItem >
          <apex:outputText > Name Prefix </apex:outputText>
        </apex:pageBlockSectionItem>

        <apex:pageBlockSectionItem >
          <apex:input value="{!namePrefix}" label="NamePref" id="NamePref" />
        </apex:pageBlockSectionItem>

        <apex:pageBlockSectionItem >
          <apex:outputText > How Many </apex:outputText>
        </apex:pageBlockSectionItem>

        <apex:pageBlockSectionItem >
          <apex:input value="{!totalCount}" label="How Many" id="totalCount" />
        </apex:pageBlockSectionItem>

        <apex:pageBlockSectionItem >
          <apex:commandButton value="Create" action="{!create}" />
        </apex:pageBlockSectionItem>

      </apex:pageBlockSection>

      <apex:pageBlockSection title="Show Data" columns="3">

        <apex:pageBlockSectionItem >
          <apex:outputText > Search Name </apex:outputText>
        </apex:pageBlockSectionItem>

        <apex:pageBlockSectionItem >
          <apex:inputText value="{!containName}" label="containName" id="containName" />
        </apex:pageBlockSectionItem>

        <apex:pageBlockSectionItem >
          <apex:commandButton value="Search" action="{!searchAccountName}" />
          <apex:commandButton value="Delete" action="{!DeleteAccount}" />
        </apex:pageBlockSectionItem>

      </apex:pageBlockSection>

      <apex:pageBlockTable value="{!multiAcc}" var="singleAcc">
        <apex:column value="{!singleAcc.Name}" />
        <apex:column value="{!singleAcc.Phone}" />

      </apex:pageBlockTable>

    </apex:pageBlock>

  </apex:form>

```

```

</apex:tab>

<apex:tab label="Contact" name="contact" id="contact">
  <apex:form>

    <apex:pageBlock title="Contact" >
      <apex:pageBlockSection title="Create Test Data" >

        <apex:inputText value="{!fName}" label="First Name" id="fName" />

        <apex:inputText value="{!lName}" label="Last Name" id="lName" />

        <apex:input value="{!totalCount}" id="ContactCount" label="How Many" />

        <apex:commandButton value="Create" action="{!createContact}" />

      </apex:pageBlockSection>

      <apex:pageBlockSection title="Show Data" >

        <apex:inputText value="{!sfName}" id="firstName" label="First Name" />
        <apex:inputText value="{!slName}" id="lastName" label="Last Name" />

        <apex:commandButton value="Search" action="{!searchContact}" />
        <apex:commandButton value="Delete" action="{!deleteContact}" />

      </apex:pageBlockSection>

      <apex:pageBlockTable value="{!multiContact}" var="singleCont">
        <apex:column value="{!singleCont.firstName}" />
        <apex:column value="{!singleCont.lastName}" />

      </apex:pageBlockTable>

    </apex:pageBlock>

  </apex:form>

</apex:tab>

</apex:tabPanel>

</apex:page>

```

```

@isTest
public class testDataControllerTestMethod {

  @isTest
  public static void testDataControllerConstructorTest1(){
    testDataController tdc= New testDataController();
    Integer result=tdc.multiAcc.size();
    System.assertEquals(0, result);

    result=tdc.multiContact.size();
    System.assertEquals(0, result);
  }
}

```

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        result=tdc.totalCount;
        System.assertEquals(0, result);

    }

    @isTest
    public static void createTest1(){
        testDataController tdc= New testDataController();
        tdc.namePrefix='';
        tdc.create();
        String result=tdc.namePrefix;
        System.assertEquals('VF - Test Account', result);

    }

    @isTest
    public static void createTest2(){
        testDataController tdc= New testDataController();
        tdc.totalCount=201;
        tdc.create();
        Integer result=tdc.totalCount;
        System.assertEquals(10, result);

    }

    @isTest
    public static void createTest3(){
        testDataController tdc= New testDataController();
        tdc.totalCount=-1;
        tdc.create();
        Integer result=tdc.totalCount;
        System.assertEquals(10, result);

    }

    @isTest
    public static void createTest4(){
        testDataController tdc= New testDataController();
        tdc.totalCount=40;
        tdc.create();
        Integer result=tdc.multiAcc.size();
        System.assertEquals(40, result);

        Test.startTest();

        List<Account> testAcc=[SELECT id FROM Account];

        Test.stopTest();

        result = testAcc.size();
        System.assertEquals(40, result);

    }

    @isTest
    public static void Search1(){
        testDataController tdc= New testDataController();
        tdc.totalCount=40;
        tdc.namePrefix='TESTTESTTEST'; // creating
        tdc.containName='TESTTESTTEST'; // searching
        tdc.create();

        tdc.searchAccountName();

        Integer result=tdc.multiAcc.size();
        System.assertEquals(40, result);

    }

    @isTest
    public static void delete1(){

```

```

        testDataController tdc= New testDataController();
        tdc.totalCount=40;
        tdc.containName='TESTTESTTEST';
        tdc.create();

        tdc.DeleteAccount();

        Integer result = tdc.multiAcc.size();
        System.assertEquals(0, result);
    }

    @isTest
    public static void createContactTest1(){
        testDataController tdc= New testDataController();
        tdc.createContact();

        System.assertEquals('VF firstName', tdc.fName);
        System.assertEquals('VF LastName', tdc.lName);
    }

    @isTest
    public static void createContactTest2(){
        testDataController tdc= New testDataController();
        tdc.totalCount=-1;
        tdc.createContact();

        System.assertEquals(10, tdc.totalCount);

        tdc.totalCount=201;
        tdc.createContact();
        System.assertEquals(10, tdc.totalCount);
    }

    @isTest
    public static void searchContactTest1(){
        testDataController tdc= New testDataController();
        tdc.totalCount=30;
        tdc.fName='MY TEST';
        tdc.lName='YOUR RESULT';
        tdc.createContact();

        tdc.sfName='MY';
        tdc.slName='YOUR';
        tdc.searchContact();

        System.assertEquals(30, tdc.multiContact.size());

        List<Contact> testmultiCont= [SELECT id,firstName,lastName FROM Contact WHERE firstName LIKE '%MY%' AND lastName LIKE '%YOUR%'];
        System.assertEquals(30, testmultiCont.size());
    }

    @isTest
    public static void deleteContactTest1(){
        testDataController tdc= New testDataController();
        tdc.totalCount=30;
        tdc.fName='MY TEST';
        tdc.lName='YOUR RESULT';
        tdc.createContact();

        tdc.DeleteContact();
        System.assertEquals(0, tdc.multiContact.size());

        List<Contact> testmultiCont= [SELECT id FROM Contact];
        System.assertEquals(0, testmultiCont.size());
    }
}

```



```
}
```

CUZUM LINKI:

<https://dramatic-technician-f4b.notion.site/VisualForce-1-Test-Data-Create-UI-4933887791224a0bb4da334be1c11a19>

VIDEO:

<https://www.youtube.com/watch?v=oZcuWxYTdRo>