# Bank Application using Apex

Problem Statement: Create Bank application in SalesForce.com using Apex programming Language.

- [Method 1 (Create Visual App)](#method-1)

- [Method 2 (Execution Window)](#method-2)

- [Video Instructions](https://git.kska.io/sppu-te-comp-content/CloudComputing/src/branch/main/Practical/Assignment-3/Bank-App-Demo.mp4)

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## Method 1

1. In the Developer Console, after creating a new `Apex Class` with the name `CreateBankCustomer`, paste the below code:

> [!IMPORTANT]

> Remove all the existing stuff from the file before pasting.

```java

public class CreateBankCustomer {

public String customerName { get; set; }

public String contactNumber { get; set; }

public String customerSegment { get; set; }

public String accountNumber { get; set; }

public String accountType { get; set; }

public List<SelectOption> segmentOptions { get; set; }

public List<SelectOption> accountTypeOptions { get; set; }

public CreateBankCustomer(ApexPages.StandardController controller) {

segmentOptions = new List<SelectOption>();

segmentOptions.add(new SelectOption('', '- None -'));

segmentOptions.add(new SelectOption('Retail Banking', 'Retail Banking'));

segmentOptions.add(new SelectOption('Corporate Banking', 'Corporate Banking'));

segmentOptions.add(new SelectOption('Private Banking', 'Private Banking'));

segmentOptions.add(new SelectOption('Investment Banking', 'Investment Banking'));

accountTypeOptions = new List<SelectOption>();

accountTypeOptions.add(new SelectOption('', '- None -'));

accountTypeOptions.add(new SelectOption('Savings', 'Savings'));

accountTypeOptions.add(new SelectOption('Current', 'Current'));

}

public PageReference createCustomer() {

System.debug('Creating new bank customer');

if (!String.isEmpty(customerName)) {

Account customer = new Account(

Name = customerName,

Phone = contactNumber,

Industry = customerSegment,

AccountNumber = accountNumber,

Type = accountType

);

insert customer;

PageReference pg = new PageReference('/' + customer.Id);

pg.setRedirect(true);

return pg;

} else {

ApexPages.addMessage(new ApexPages.Message(ApexPages.Severity.ERROR, 'Please enter Customer Name'));

}

return null;

}

public PageReference cancelCreation() {

return new PageReference('/' + Schema.SObjectType.Account.getKeyPrefix() + '/o');

}

}

```

2. In top-left corner, click on `File` followed by `Save` to save this file.

3. In top-left corner, click on `File`, then `New -> Visualforce Page` and create a new Apex Page titled `CreateBankCustomer`. Then, paste the following code:

> [!IMPORTANT]

> Remove all the existing stuff from the file before pasting.

```xml

<apex:page standardController="Account" extensions="CreateBankCustomer">

<apex:form>

<apex:pageMessages />

<apex:pageBlock title="Create Bank Customer">

<apex:pageBlockSection columns="1">

<apex:inputText value="{!customerName}" label="Customer Name"/>

<apex:inputText value="{!contactNumber}" label="Contact Number"/>

<apex:inputText value="{!accountNumber}" label="Account Number"/>

<apex:selectList value="{!accountType}" size="1" label="Account Type">

<apex:selectOptions value="{!accountTypeOptions}" />

</apex:selectList>

<apex:selectList value="{!customerSegment}" size="1" label="Customer Segment">

<apex:selectOptions value="{!segmentOptions}"/>

</apex:selectList>

</apex:pageBlockSection>

<apex:pageBlockButtons >

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

<apex:commandButton value="Cancel" action="{!cancelCreation}" />

</apex:pageBlockButtons>

</apex:pageBlock>

</apex:form>

</apex:page>

```

4. In top-left corner, click on `File` followed by `Save` to save this file.

5. In top-left corner, right above the line numbers, click on `Preview` button. A new browser tab will open. Enter the required details and click on `Create` to create a new user.

> [!TIP]

> Visit `Accounts` section from App Launcher to view the changes.

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## Method 2

1. In the Developer Console, after creating a new `Apex Class` with the name `User`, paste the below code:

> [!IMPORTANT]

> Remove all the existing stuff from the file before pasting.

```java

public class User {

public static void createAccount(String accName, String accType) {

Account newAcc = new Account();

newAcc.Name = accName;

newAcc.Type = accType; // Use the standard Type field

try {

insert newAcc;

System.debug('Account created with id: ' + newAcc.Id);

} catch (DmlException e) {

System.debug('Error creating Account: ' + e.getMessage());

}

}

public static void deleteAccount(Id accId) {

// Check if the account ID is valid

if (accId == null) {

System.debug('Account Id cannot be null');

return;

}

try {

// Perform the delete operation

delete [SELECT Id FROM Account WHERE Id = :accId LIMIT 1];

System.debug('Account with ID: ' + accId + ' has been deleted.');

} catch (DmlException e) {

System.debug('Error deleting Account: ' + e.getMessage());

} catch (QueryException e) {

System.debug('Error finding Account: ' + e.getMessage());

}

}

}

```

2. In top-left corner, click on `File` followed by `Save` to save this file.

3. Press `Ctrl+E` to open execute anonymous window.

4. Paste the below content and hit `Execute`.

```java

User.createAccount('Test Account', 'Savings);

User.deleteAccount('#specified\_Id');

// Id can be checked in URL when clicked on any account created in Accounts Page

```

> [!TIP]

> Visit `Accounts` section from App Launcher to view the changes.

> [!NOTE]

> For account deletion, you have to do it directly from the `Accounts` section in App Launcher.

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