

USE CASE

- 1) Project (EXCEL Sheet/ User Requirements gathering)
- 2) Design Phase Document (Technical Architecture)
- 3) Agile process (plan execution)

Tools:

- 1) JIRA (Project overview, tasks), GITLAB
 - 2) AZURE Devops (Project overview, tasks, Gitlab)
-

AZURE DEVOPS DEVELOPMENT

Azure Devops : Cloud based VSTS

Project Management: JIRA : Azure Board

Source Control : Gitlab : **Azure Repos :**

Central repository : Maintains history of changes : so all developers can work together
Push their changes

Build and Deployment : release Cycles : **Pipeline CI/CD**

Bring together all the puzzle by all developer together and deploy to the server
CI/CD : continuous integration and continuous delivery

Setup :-

For remote Devops:

Create Outlook Account
Azure Devops Account (Where code will go)

For Local Development:

Visual Studio Code : IDE
And whatever plugins and software needed for development

For local development to remote repo:

Tortoise

Working:

1. Create project (Private/ Public) / Use Workspace of project:-
1) Azure Devops Project Management Course:
-

Create and Assign:

Project Divided into **release** and release is made up of **user story**/ backlog items and user story is completed by **task**.

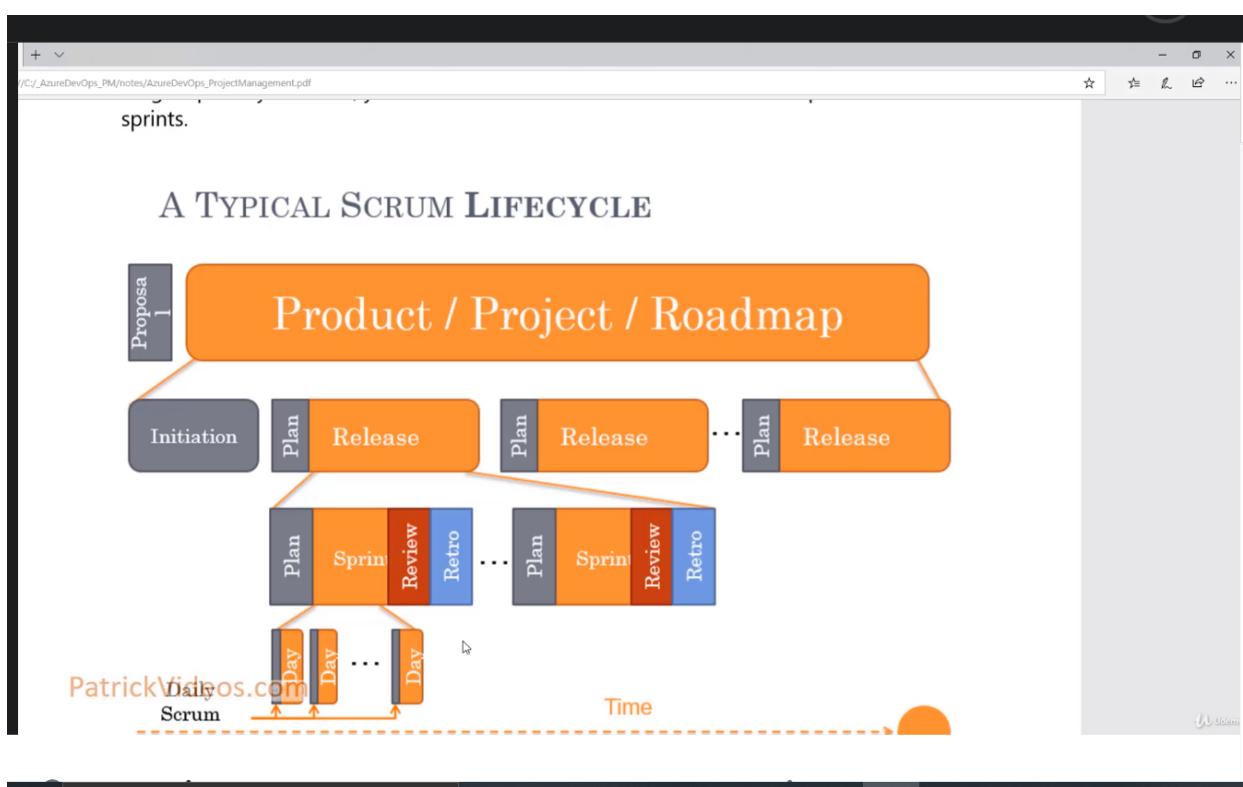
EPIC(Application/ Multiple release) → Feature(Model/ Multiple Sprint) → UserStory(Class/ Sprint) → Task

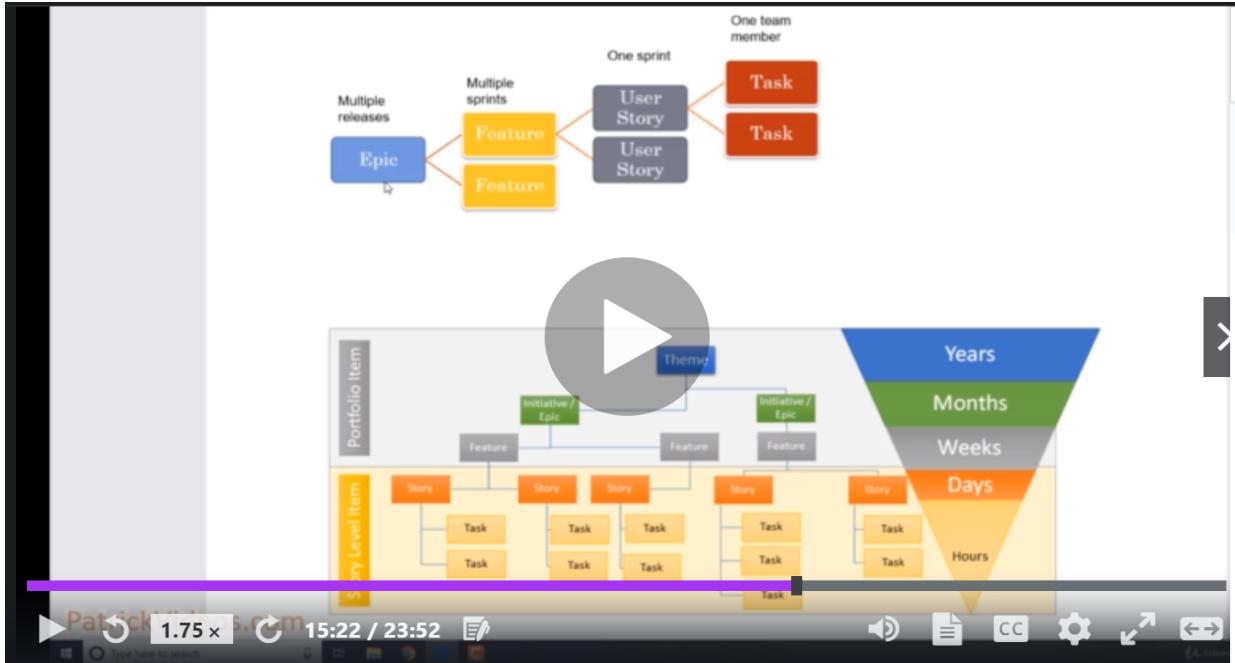
Work:

User story/backlog item → particular Branch → Release branch→ Pull request to the master branch

Overview:

Project → Release → Sprint → User story → tasks→ Sprints → Dashboard → Overview process(Completed. pending) → Assignee





Some Terminology:

Format (Release, Branch, Tag)

Task: (Sprint wise)

Task related informations (What is task), priority (what is priority of that task), Related attachment, related tasks, related discussion of the task

EPIC : a item which takes multiple releases to complete **(Application)**

(Use Acronym so multiple user story/ feature goes there)

Feature: a item which takes multiple sprint to complete **(Model)**

User Story: one sprint (Class)

Area: which item is related to particular folder

Iteration : release

Product backlog item : **user story**

Effort/ Business value

WorkItem: everything id wise

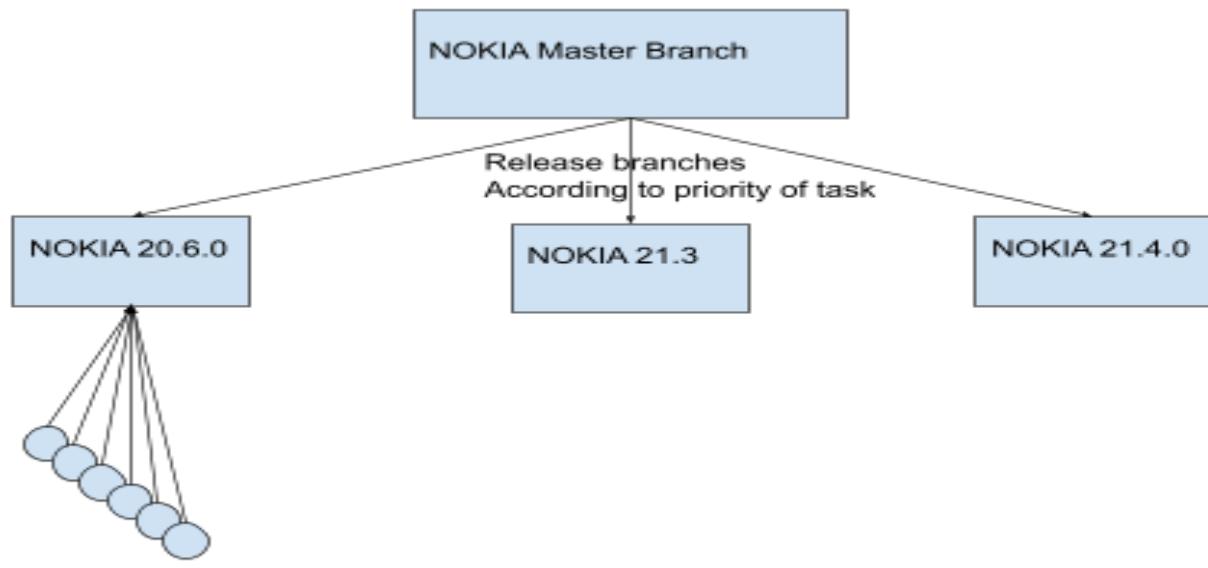
Board: UserStory Kanban chart

Backlog: UserStory (Epic tree structure)

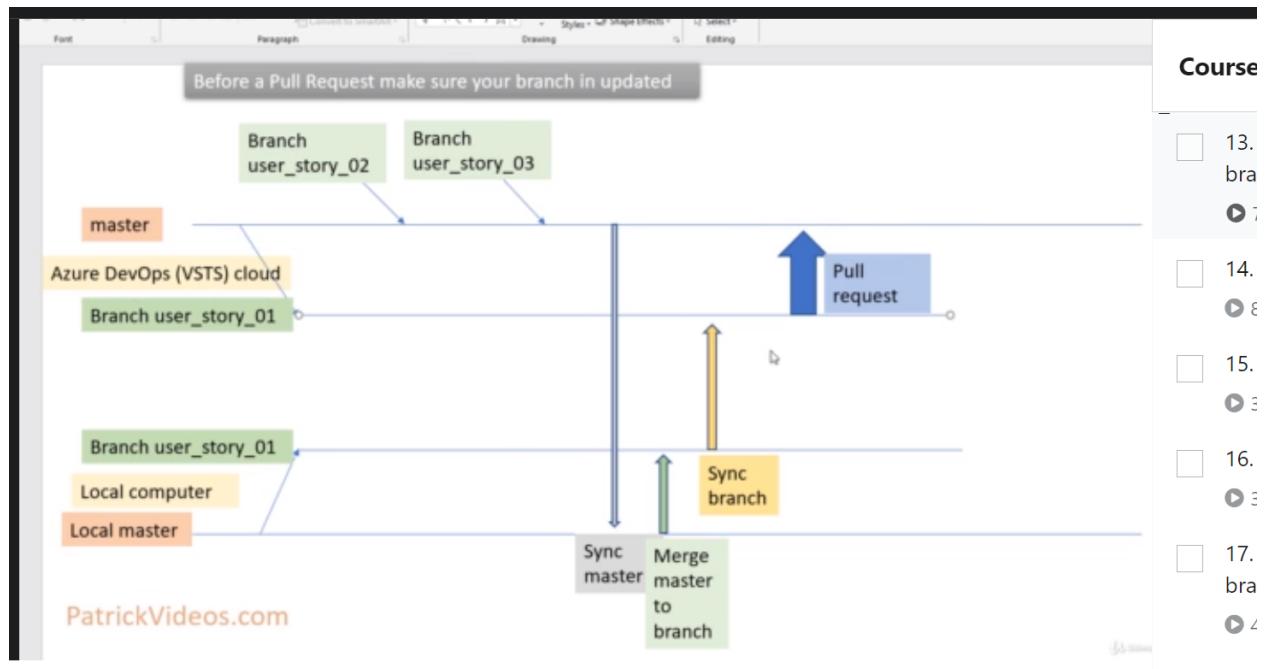
Sprint: Task Kanban Chart, work capacity

Query, Chart, Dashboard, Email send, Excel, Notifications

2) Azure Devops Repo Course:



All related User Stories,
related tasks to particular US,
bugs Will go in one release branch



Note:

Never worked on master branch directly, Always create branch and then merge (Pull Request) to your branch with master branch.

Through Command Line Interface

git clone

git init

git add -A

git commit -m 'Added my project'

git remote add origin git@github.com:scotch-io/my-new-project.git

git remote -v => To check which remote url added

if u wanna go with master branch go with it:-

 git push -f origin branch_name

else create a branch then push back the code:-

 git branch branch_name

 git checkout branch_name

 Upstream branch creation github code

 git push -f origin branch_name

To ensure you have all update while you worked on locally.(if you are unable to add it)

git pull --rebase origin master

To pull data: git pull

Note: There is no need to worry because it does not delete anything and show the diff wherever the changes were done.

Some terminology:-

updated

stashed

staged and unstaged

Through Tortoise tool :

- 1) Clone the project / Pull the refresh copy of particular branch
 - 2) Add your changes (Metadata downloaded through Salesforce organiser or workbench)
Object Name and package.JSON
 - 3) Create Branch and push the changes
 - 4) Log version and monitor who did the changes on a particular file
-

Through Visual Studio Code:

Live server / In scratch org/ dev org/ production org

Page No: 93

on remote server/ repo

Git config and setup

Bottom Line for development use : visual studio, scratch org, dev org, production org

For deployment use Azure Devops/ Gitlab and tortoise

BASIC QUESTION ANSWERED

PULL, ADD, COMMIT, PUSH

Creating project on server / cloning the project :: folder and file

Creating a new project locally/ Pushing the project :: you need to create project and upstream branch on devops platform else where will u push the code

Pushing the code to main branch :: we dont push the code directly to master branch

Pushing the code to local branch

instead we create a sub branch and then merge the code to master branch
(depending on the project length)

Branches are folder and files are the content of the project

Merging the branch

You can push to same folder or you can create a new folder and then push and merge

Managing the local version of code :: tortoise tool

Commit: Commit means added changes are finalized changes.

StageFile: staged files are those files which will go in the next commit.

To avoid Merge Conflict use : Use Sync and Push option (Pull latest changes and then go)

Pull (Fetch + Merge)

Revert (Will remove the changes and commit newly with branch)

Stash: Means tried out different version of code (Testing multiple piece of code which one work better)

3) Azure Devops Pipeline CI/CD Course:

So overview:

First : organization setting → create a template
Then project by using that template
Then team → Member → Permission
Notification, Subscription
Release → Sprint
After preliminary setup → Create EPIC → Feature → Userstory
Query → Chart → Dashboard

VS Code setup:

Theme

Font

Auto save

Auto format, format to prettier extension

live server

NOKIA CAPS SYSTEM

request (Send/ Call)

System 1 -----> System2

<-----

response(Receive/Set)

Architecture: Salesforce → NAIP → CAPS → S3

Salesforce ← NAIP ← External System

Simulation tool: PostMan, SOAPUI

Basic API Functionality:

- 1) Get User
- 2) Get Security Group
- 3) Add/ remove users from the Security group based on NOKIA ID.

Few Basic coverage:

Profile: CH_Functional Account

User: For Running Dashboard and Report

Connected App: Provide the CAPS Required ID and Establish the Connection

Custom Setting: Security Group Profile Names for CAPS

Rest API:

1) Get New Users: (Request is made from CAPS to Salesforce System)

Get the user Which has a valid emp id

1) End Point:

/services/apexrest/GetNewUsers/

2) Request:

/services/apexrest/GetNewUsers/startdateTime=2012-04-12T13:50:58.00Z/**
enddate**Time=2019-04-16T10:50:58.000z********

3) Response:

- 1) Nokia Employee ID
 - 2) Profile Name
 - 3) Group Name
- [{"NokiaEmployeeid": "1212112",
"profileName": "CH_Agent",
"groupNames": [
 {"name": "sec_alt"},
 {"name": "sec_alt2"},
 {"name": "sec_alt3"}]]

Retrieve Data Will be stored in Custom Setting : Security Group Profile Names for CAPS

2) Get Users From Groups:

Get all the Users from a Particular/ specific security Group.

1) End Point:

/services/apexrest/GetUsersFromGroup

2) Request:

/services/apexrest/GetUsersFromGroup?sfGroupId = 00G3C00001WesJ

3) Response:

- 1) Nokia Employee Id
- 2) Profile Name
- 3) Salesforce User Id

[{"NokiaEmployeeid": "1212112",
"profileName": "CH_Agent",
"sfUserId": "0053C000001nSaNQAU"}]

3) Get Security Groups:

Get All the security groups

Note: HTTP Get Call to SF With necessary Authentication To get info

- 1) End Point:

/services/apexrest/GetSFCHSecurityGroups

- 2) Request:

- 3) Response

1) Group Id

2) Group Name

[{"groupSFName": "SEC_VWireless",
 "groupSFId": "00G3C000001Wes9UAC"}]

4) Get User and Group Based on Nokia ID:

User's Group Details when Quired by Nokia Emp id:

Note: Multiple Nokia Emp Id can be provided in a Single Call but overall request and Response size should be less than 6 MB.

- 1) End Points:

/services/apexrest/ GetUserAndGroupBasedOnNokiaId

- 2) Request:

1) Nokia ID

[{"nokiaEmployeeId": "69144707",
 "nokiaEmployeeId": "00000012"}]

- 3) Response:

a) Nokia Employee ID

b) Profile Name

c) Group Name

d) Salesforce User ID

[{"NokiaEmployeeid": "1212112",
 "profileName": "CH_Agent",
 "sfUserId": "0053C000001nSaNQAU",
 "groupNames": [
 {"name": "sec_alt"},
 {"name": "sec_alt2"},
 {"name": "sec_alt3"}]]

5) Add or Remove Group Membership:

Adding or removing of a user from a group

1) End Point:

/services/apexrest/AddRemoveGroupMembership

2) Request:

- 1) Nokia Emp ID
- 2) Group ID
- a) Operation

```
[{"nokiaEmployeeId": "69144707",
 "SFGroupID": "00G4100002222",
 "Operation": "add"}]
```

3) Response:

6) Get SFCH Security Group:

- 1) New Security Group Added
- 2) All Latest Configuration of Salesforce Security Group

UseCase:

- 1) CAPS run a Batch in every 4hrs of interval to retrieve the new User Info
(GetNewUsers API)
- 2) CAPS Will Analysis the Correct security group and assign the membership
(AddRemoveGroupMembership)
- 3) After Operation CAPS Will send a Mail to DVT Team with Batch Summary
(Number of Success/ Number of Errors)
Note: if Connectivity Issue CAPS Will send Email after 2 unsuccessful batch run
Silent Retry Option is also there if retry fails.

Status Code:**URLS AND Component:****Upload:**

- 1) CAPS_UplaodMultipleAttachment: Lightning Component
- 2) CAPS_ProgressBar: Lightning Component
- 3) CAPS_MultipleFileUploadController: Apex Class
- 4) CAPS_MultipleFileUploadWrapper: ApexClass

Download:

- 1) CH_DownloadAttachment: Lightning Component
- 2) CAPS_AttachmentController: ApexClass
- 3) CAPS_Attachments_Download: Apex Class
- 4) CAPS_Attachment_Util: Apex Class
- 5) CAPS_ConstantHandler: Apex Class (Constant Class)

All start with CAPS or S3 (Secure Storage System)

- 1) Remote Site Setting
- 2) CSP Site Setting
- 3) Custom Setting
- 4) Custom Label
- 5) Custom URL
- 6) Named Convention

CAPS URLs:

- 1) https://capsv.nokia.com/93f6cc8e/downloadattachment?id=attachment_id
- 2) <https://capsv.nokia.com/93f6cc8e/uploadattachment>
- 3) <https://capsv.nokia.com/93f6cc8e/api/log/attachments>
- 4) https://capsv.nokia.com/93f6cc8e/api/log/attachments/attachment_id
- 5) <https://capsv.nokia.com/93f6cc8e/api/log/customers>
- 6) <https://capsv.nokia.com/93f6cc8e/api/log/products>
- 7) <https://capsv.nokia.com/93f6cc8e/api/log/nctclassifications>
- 8) <https://capsv.nokia.com/93f6cc8e/api/log/classifications>

- 1) CH_ExernalInterfaceWebServices
- 2) CH_ExernalInterfaceUtil (Header Information)
- 3) CH_CaseTriggerHandler
- 4) CH_CaseTriggerHelper
- 5) CH_AttachmentsTriggerHandler
- 6) CAPS_AttachmentController
- 7) CAPS_AttachmentDelOnCloseCancelQueue
- 8) CAPS_AttachmentManualDeleteQueueable

EmailUpload:

Inbound Email Handler Email services to process email attachment

Classes:

- 1) CH_EmailAttachmentHandler
- 2) CH_EmailAttachmentHelper

Update Metadata to CAPS for NAIP Attachments:

- 1) CH_CaseTriggerHandler
- 2) CH_CaseTriggerHelper
- 3) CAPS_UpdateToCAPS4NAIPATTACHMENT

Share Attachment to R&D (Interface Type, pronto, JIRA):

- 1) CH_DownloadAttachment (lightning component)
- 2) CAPS_AttachmentController(apex class)

Send attachment to NAIP for S2S Case:

- 1) CAPS_UploadMultipleAttachment(lightning component)
- 2) CH_AttachmentsTriggerHandler (Apex Class)

Custom Setting:

SecurityGroupsProfileNameForCAPS
CHSecurityGroup
LogInterfaceLogOrNotForSecurityGroupAPIS

Custom MetaData:

CHPermissionSet2ProfileMapSecurityGroup

API CLASSES:

CAPS_GetNewUsersInDefinedSpanREST
CAPS_GetSFCHSecurityGroupsREST
CAPS_GetUsersInGroupREST
CAPS_SecurityGroupsRESTUtil
CAPS_GetUsersAndGroup4NokialdREST
CAPS_AddRemoveUsersToFromGroupsREST

Operation:

- 1) **Upload:** Only Case Owner and Team Member can Upload The file
System admin till Only created.
- 2) **Download:**
There are restriction also who can download the file based on account, region
- 3) **Delete:**
Only Owner of file can Delete the file
And to Delete a File Parameter Need to set That is **Retention Period**

NOTE:**Case Context: (S2S)****For Cancelled and Completed Case:**

No Updation

Can Use Ref No and Case No to create new case

For Closed Case:

Updation is Allowed

Cant use ref. No to create new Case

USE CASE: Technically (What we need to keep in mind)

- 1) End-Point URL (URL + Session ID + Authentication Id)
- 2) Request Header (Type: JSON / Excel) , Request Body (Wrapper, String)
- 3) Response (Parsing)

UPLOAD: (POST, PUT HTTP METHOD USE)**Salesforce Configuration → CAPS Configuration (INFORMATION PASSING TO CAPS SYSTEM)****1) Customer and Product information****2) User Authorization information****3) Attachment Information**

- 1) Customer ID (Customer information, CDB ID)
- 2) File information (Name, Size (Byte))
- 3) Product (Product , Product Release, Product information, CDB ID)
- 4) NCT Classification (2,4)
- 5) Service_Class (CARE)
- 6) App Information (E.g: Service cloud)
- 7) Purpose
- 8) Description
- 9) Ticket(App, Ticket ID)
- 10) Security Group
- 11) Case Status
- 12) Customer Visible
- 13) Retention Period

8 CALLOUTS from Salesforce to caps System:--

CAPS_UploadMultipleAttachmentHelper.js : Lightning Component : Set some input parameter

Main JS File to Upload: CAPS_UploadMultipleAttachmentHelper.js

CAPS_MultiFileUploadController : Main Apex Class : initiate Upload Method

Query case object to get necessary information

Note: CDB(Customer DataBase) Customer Id defined or get from CASE Object (person need to be authentic) (Customer Code with Product and Product Release should be mapped in CDB)
(CDB Information in Customer Setting)

Build initiate upload JSON with Customer, Product, product release & all other information)

CAPS_ConstantHandler to set some standard constant

Note: Product Release is also an Object(Case. CH_Product_Release__r.CH_NSNLegacyCode__c)

Attachment -> String -> Blob

Build Signature (Build Blob) (Custom Setting : CH_Setting: CAPS_HardCoded value)
(Sign and Secret Key for encoding, decoding)

Wrapper class to wrap up JSON (CAPS_MultipleFileUploadWrapper)

Send back Wrapper input to Lightning component

(CAPS_UploadMultipleAttachmentHelper.js)

Http Callout Header Set (CAPS_UploadMultipleAttachmentHelper.js)

Onload function to get Response of first Call out

Based on the response of first call out we perform second call out

1) Parse Response and use that to perform subsequent call out

First Call out : Initiation of Upload / Web CallOut

- 1) Salesforce Sends MetaData to CAPS System
- 2) CAPS Create Container of that Attachment
- 3) In response caps provide authorization to get token

Second Call out: Authentication : S3 Sign API: TimeStamp(Provide security token)

Third Call Out : Upload Id (with Token) from S3 System

Fourth Call Out: Content Upload Authentication

Fifth call out: Content upload to S3

Upload File in Chunk (Part Number and Etag Used to monitor)

Repeat the steps if file size is bigger

Method Name: uploadMultiPart

Send Part Number, Start Position, End position

E.g:

```
Var partNumber = 1;  
Var startPositon = 0;  
Var endPosition = Math.min(fileSelectedForUpload.File.Size, startPosition + self.chunkSize)  
Var blob = fileSelectedForUpload.File.slice(startPosition, endPosition);  
Var fileReader = new FileReader();  
fileReader.onload = function(){  
    self.uploadMultiPart(component, counter, s3uploadId, partNumber, startPostion,endPostion)  
}
```

6) CALLS to CAPS Sign (ETAG)

7) Part Number to Assemble the files

8) File assembling and file ready 2 use

Information is stored in CH_Attachment Object

Note that:

Why Status is Uploading even it is uploaded to CAPS:

Because CAPS is performing Encryption and Scrambling and till then it is Hardcoded to Uploading Once it is done. Caps send status updation to ready and status will change.

Delete Original File only Scrambling and Encryption file will remain

Encryption and Scrambling is done on CAPS based on customer and product information

For Apex: Remote Site Setting

For Lightning Component : (Java Script)

Content Security Policy Trusted Sites

CORS Setting

Tool to debug: Google Chrome

Download: (CH_DownloadAttachment.cmp) (CAPS_AttachmentController)

CAPS System configure or taken care download stuff.

First call out to send info about user to determine user has access or not. Alias name of user pass
Second Call out

CH_DownloadAttachment.cmp (Lightning Component)

Note: Encryption key is the password

1) END URL 2) Request Header(Method) 3) Request Body (String Data) 4) Response

E.g:

```
Http hr = new Http();
httpRequest hr = new httpRequest();
hr.sendHeader();
Return hr;
hr.send();
httpResponse ht = new httpResponse();
```

//Calculate Signature

// Set Header

Or

```
Http h = new Http();

HttpRequest hr = new HttpRequest();
hr.setEndpoint('https://postman-echo.com/get?foo1=bar1&foo2=bar2');
hr.setMethod('GET');

HttpResponse hr1 = new HttpResponse();
hr1 = h.send(hr);
System.debug('body' + hr1.getBody());
```

Delete: (Just Update the retention days, rest all work done by caps) (Do Callout)

- 1) DeleteSelectedAttachments: Client Controller
- 2) c.updateRetentionDays: server Controller in CAPS_AttachmentController Class
- 3) CAPS_AttachmentDelete
- 4) updateRetentionDaysForLightning
- 5) CAPS_MaualDeleteQueueable
- 6) CAPS_Attachment_Util

Note: Suspected Data Breach (CheckBox)

User neither can close the case nor download the attachment

CAPS_Constant_Hnadler: Retention Days Setup

For Signature: UseUtilMethod

S2S Email Case: (Case Creation) (In email single shot we are uploading because we kept overall size is 11 MB) (And Multiple File Multiple time Queueable Class called)

**Email Body Attachment: Should store in Salesforce
Email Attachment: Should Upload in CAPS**

**Setup-> Email Services (Forwarding Email Address / Routing)
Name: CH_EmailAttachmentHandler
Apex Class : CH_EmailAttachmentHandler
Using Thread Id, get Case Id and setup the process
(Feed Updating, Caps Uploading, File System UPloading) → CAPS_MultiFileUpload Controller**

**NAIP (Through Interface to Upload) : (because NAIP handles Customer System)
Customer can also have flexibility to upload directly**

**After uploading, NAIP Sends Metadata to Salesforce in pure JSON Format
We need to update metadata for caps and create case creation in salesforce after that**

**Select id, caseNumber, ch_caps_AttachmentMetaDataFromNaip__c from Case where caseNumber =";
Select id , attachmentId__c from ch_attachment__c where attachment_id="**

Select id, attachmentId__c, case__c, from ch_attachment__c where case__r.recordTypeId ="

**CH_CaseTriggerHelper
(before update, after insert)**

**Bulkification : FOR Loop and If condition
chatterPost: Connect API**

**Security Group : Public Group : Sharing Setting Rules are Defined there (DVT team take care
Note: Whenever Security group gets created, in custom setting we need to add in manually
For all new user we have one enhancement custom meta data, if they have permission set we are sending a universal information. (CH_Basic_Case_Handling)
Because caps only do segregation based on profiles
CH_Setting__c.get();: get information from ch_setting**

**DPC(Data privacy controller)
CAPS ==> S3
DPC validate if users have access to the files based on some c\parameter**

HWS CASE FLOW USE CASE ():

HWS_CaseFlow Component: (Screen / If Condition)

Contact ->> Account

- 1) Product
- 2) Product Part Item/ Code
- 3) Product Items Code Version

Address ->> Review, Submit

Submit ---> SOO (DownStream System)(Pega) (Will Process and deliver part)
(ordering / logistic/ monitor)

Searlizing the Information and in response we get unique SOO reference no
Pega is **Business Process Management**

Only case created/ case process on salesforce

Logistic/ product monitoring and tracking all other care by other system

CASE ID/ REST API.

Security Group: Apex/ Static rule

RMA Number: Custom Field/ Auto Number: ParentCase- AutoNumber

Portal:

All are diff-2 Component, which are communicating through events

Bulk Upload:

Multiple PartCode for a Product And for each part code for each shipping address information

Single Update for each child case (note in bulk because each status would be different)

In bulk Code when we do a great outrageous:

Same Country

Same Contract

Same Service Type

Child cases/ parent cases created by contract number

To Load the data there are Batch classes that run at 10AM (External System: falu, fnokia)

Product ---> Product Part Code(Alternate Product code) ---> Part Version

Version Items

External ⇒ staging

HWS_ProductServiceSalesItemBatch → SI - subassembly - component - nsn1, nsn2, nsn3

HWS_ProductServiceableVersionItemBatch

HWS_Product_Relation_Batch

HWS_ProductVersionItem_Batch

HWS_ProductServicableAltCode_Batch

HWS_PMDSORComponentToProductBatch

NSN1, NSN2, NSN3- query - url - request - pmdqa - json data desirilizable Product 2

HWS_SubAssemblyTOProductBatch

Staging to Product :

HWS_PMDSOR_Import SubAssembly Product

HWS_EDP_SalesItemToProduct_Batch

HWS_EDP_SVIttOVersionItem_Batch

HWS_EDP_PVITtoVersionItem_Batch

HWS_EDP_Buildrelation_Product_Part

Account (Legal Entity) (One company need to register in diff, company, diff subsidiary)(each subsidiary have different logistic account (shipping address))

Contact (Authorized Contact (List of Authorized Contacts for that service contract)

(one contact can be part of multiple accounts but if its entitled to anything specific then in can not)

GWC: global welcoming center (Same as CH_Agent) (Hardware_Internal_Agent_Permission_Set)

Why Part code and Contract Number two option are there

Because some time they know part code and sometime they don't so by using contract number agent can select or create a case by using contract number

And While creating a case we are capturing child(All part is child) and parent case information

And for one case, U can add Multiple part but there would be one recipient address only

If u want to use different shipping address, u need to create case, or need to create it again

Address Calculation/ Delivery Address calculation

Business Hours/ Distance

Version code :(Part Revision) have version number if no version number then ANY also there.

Start Date // end date /// terminate date

CARE/ CBD / FALU/ FNokia/ SOO / CAPS / R&D

Ordering System / Case Service / Logistic System

External System to staging to salesforce

Stage Table: Different Different object are there to load in salesforce to mapping purpose

HWS_CaseFlow

HWS_Support_Ticket_MainFlow

String Matching Data Fetcher Project :

Application:

```
<aura:application>
  <c:StringFinder />
</aura:application>
```

Component:

```
<aura:component controller= "StringMatcher" >
  <h1> Data Finder </h1>
  <lightning:formattedText value="Enter your Desire input that will search on Account Object" />
  <aura:attribute type="String" name="query" />
  <lightning:input type = "text" value="{!v.query}" name="query" onkeyup=" {!c.stringFinder} " />
  <br/>
  <aura:attribute type="Account" name="list" />
  <aura:iteration items=" {!v.list}" var="listData" >
    <p>{!listData.Name}</p> <br/>
  </aura:iteration>
  <br/>
</aura:component>
```

Note:

Onkeyup is used to fire the action method as soon as the key type.

Attribute type account because using Account List to fetch

U can also used Object as standard Non Primitive list

E.g: <aura:attribute type="Object" name="list" />

Client side controller:

```
stringFinder: function(component, event, helper) {
  //alert("hi");
  var a = component.get("v.query");
  //console.log(a);
  var action = component.get("c.accountStringFinder");
  action.setParams({
    searchKey : a
  });
  action.setCallback(this, function(response){
    console.log(JSON.stringify(response.getReturnValue() , null, 4));
    component.set("v.list", response.getReturnValue());
  });
  $A.enqueueAction(action);
})
```

Note:

To get server side controller

```
var action = component.get("c.accountStringFinder");
```

To set parameter for passing in server controller

```
action.setParams({  
    searchKey : a  
});
```

To get response the value

```
action.setCallback(this, function(response){  
    console.log(JSON.stringify(response.getReturnValue() , null, 4));  
    component.set("v.list", response.getReturnValue());  
});
```

To enqueue all the operation :::: it work on FIFO (First operation first)

If u try to call back first without setting param it will throw an error.

```
$A.enqueueAction(action);
```

Server Side controller:

```
public class StringMatcher {  
    @auraEnabled  
    public static List<Account> accountStringFinder(String searchKey){  
        String name = '%' +searchKey +'%';  
        return [select id, Name from Account where Name Like :name];  
    }  
}
```

Passing the method parameter through server side controller and getting the response (return)



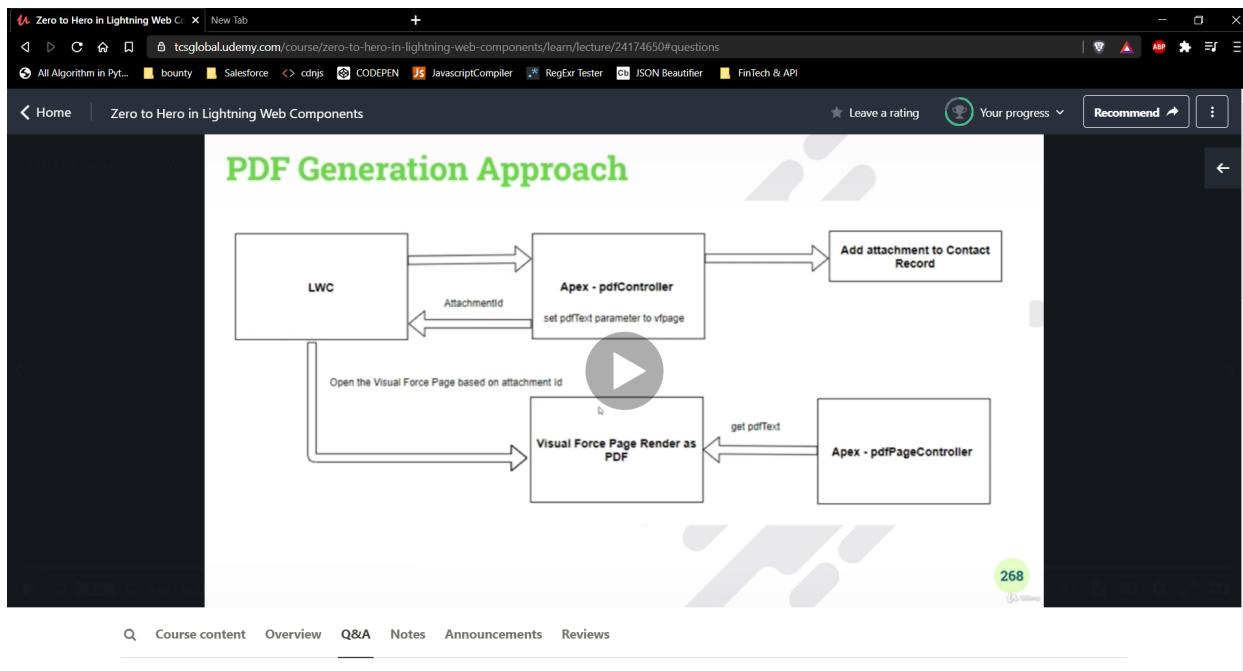
Project:

All Source code are uploaded in github

PDF generation:

PDF generation in LWC: (Design format and data pass in string encapsualted format and use standard functionality)

Architecture:



```
generatePDF({ recordId: this.recordId, htmlData: content.outerHTML })
```

```
Pagereference page = Page.renderAsPDF;
page.getParameters().put('pdfText', htmlData);
```

```
public String pdfText{get;set;}
public pdfPageController() {
    pdfText = String.escapeSingleQuotes(
        ApexPages.currentPage().getParameters().get('pdfText')
    );
}
```

```

<apex:page controller="pdfPageController" renderAs="pdf"
applyHtmlTag="false" showHeader="false" cache="true"
readOnly="true">
    <html>
        <head>
            <meta http-equiv="Content-Type"
content="text/html; charset=UTF-8"/>
        </head>
        <apex:outputText value="{!!pdfText}" escape="false"/>
    </html>
</apex:page>

```

pdfPageController

```

public with sharing class pdfPageController {
    public String pdfText{get;set;}
    public pdfPageController() {
        pdfText = String.escapeSingleQuotes(
            ApexPages.currentPage().getParameters().get('pdfText')
        );
    }
}

```

Putting pdf in attachment section :-

pdfController

```

public with sharing class pdfController {
    @AuraEnabled
    public static Attachment generatePDF(Id recordId, String htmlData){
        Pagereference page = Page.renderAsPDF();
        page.getParameters().put('pdfText', htmlData);

        Contact con = new Contact(Id=recordId);
        Attachment objAttachment = new Attachment();
        objAttachment.Name='invoice.pdf';
        objAttachment.ParentId = con.Id;
        objAttachment.Body = page.getContentAsPDF();
        objAttachment.IsPrivate = false;
        insert objAttachment;
        return objAttachment;
    }
}

```

Pdf: standard web

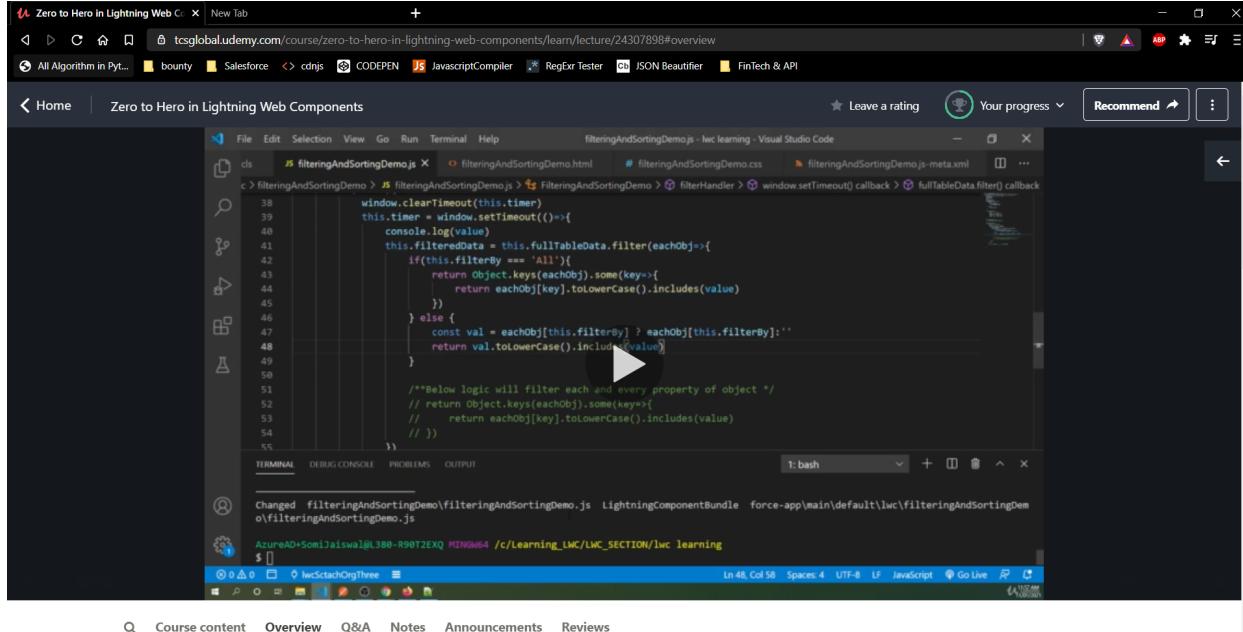
Chart in LWC: library, live data

Map : standard api function

Searching (click, onekeyup, onkeyup with time interval)

Filtering: (with one value, with group of value(All) in column)

Sorting (in Asc, Desc order(number, string))



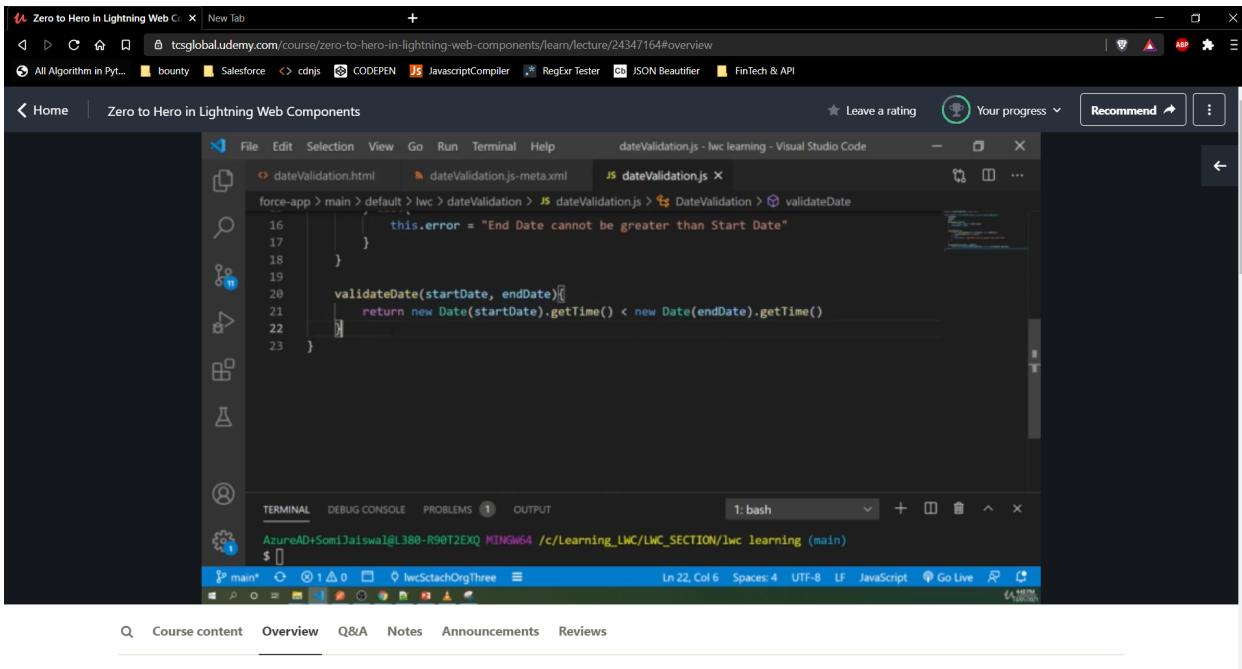
The screenshot shows a browser window with a tab titled "Zero to Hero in Lightning Web Components". The main content area displays a code editor in Visual Studio Code. The file "filteringAndSortingDemo.js" is open, containing the following code:

```
38     window.clearTimeout(this.timer)
39     this.timer = window.setTimeout(()=>{
40       console.log(value)
41       this.filteredData = this.fullTableData.filter(eachObj=>{
42         if(this.filterBy === 'All'){
43           return Object.keys(eachObj).some(key=>{
44             return eachObj[key].toLowerCase().includes(value)
45           })
46         } else {
47           const val = eachObj[this.filterBy] ? eachObj[this.filterBy]: ''
48           return val.toLowerCase().includes(value)
49         }
50       })
51       /*Below logic will filter each and every property of object */
52       // return Object.keys(eachObj).some(key=>{
53       //   return eachObj[key].toLowerCase().includes(value)
54     })
55   })
```

Below the code editor is a terminal window showing the command "Changed filteringAndSortingDemo\filteringAndSortingDemo.js" being run. The terminal also shows the path "LightningComponentBundle force-app\main\default\lwc\filteringAndSortingDemo\filteringAndSortingDemo.js". The bottom of the screen shows the browser's navigation bar with links like "Course content", "Overview", "Q&A", "Notes", "Announcements", and "Reviews".

Date: standard tag

Validation in between start date and end date



Generate CSV in LWC::

Data Checking, creating to string and exporting

Excel Generation:- Excel sheet (Importing and exporting)

Import and Exporting of excel and parsing of data

"Excel Data to chain of Block (Block Formation) "

"Excel Live Data to chain of Block

Consensys (Synchronisation help here)"

Excel formation/ Data Exporting/ Data Importing

Courses:

Custom Carousel : slider of images

Project 5:

Pagination (token)

String Searching Functionality

After searching result

Show in a page

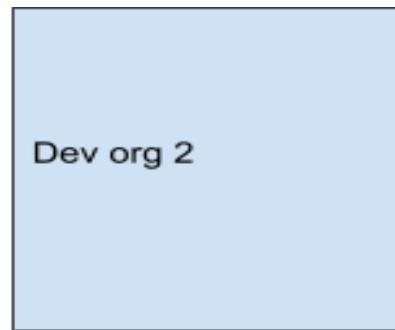
Do the pagination

The screenshot shows a Salesforce search interface. At the top, there is a navigation bar with various tabs like Home, Chatter, Opportunities, Leads, Tasks, Files, Accounts, Contacts, Campaigns, Dashboards, Reports, Groups, Calendar, and More. A search bar is located at the top right. Below the navigation bar, a blue header bar displays "PROJECT NO: 5". The main content area has a title "SELECT THE TYPE AND FIRE THE QUERY". It contains two input fields: "Select your Type" (dropdown menu showing "Select Type") and "Fire your query" (text input field containing "type here..."). Below these fields, a message says "Selected type value is: ALL". At the bottom of the main content area, a message reads "That's all folks".

The screenshot shows a Salesforce search interface similar to the one above, but with search results. The "Fire your query" field now contains "Un". The main content area displays a table titled "Result" with three columns: "Account Name", "Account Number", and "Phone". The table lists several account entries, each with a checkbox in the first column. The results are as follows:

Account Name	Account Number	Phone
University of Arizona	CD736025	(520) 773-9050
Sample Account for Entitlements		+44 191 4956203
United Oil & Gas, UK	CD355119-A	(650) 450-8810
United Oil & Gas, Singapore	CD355120-B	
Sample Account for Entitlements		(512) 757-6000
Edge Communications	CD451796	(212) 842-5500
United Oil & Gas Corp.	CD355118	
Dhanuka	Un	
Dhanuka	Un	

Project 4:



Call one Class method to another org

Fetch function usage
To API call

The screenshot shows the Salesforce Apex code editor interface. The URL in the browser bar is `brave-bear-1zteug-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. The tab title is `childClass.apxc`. The code coverage is set to None and the API version is 51. The code itself is as follows:

```
1  @RestResource(urlMapping='/ContactFetcher/*')
2  global class childClass {
3      //information processing
4      @HttpGet
5      global static List<Contact> childClassMethod(){
6          List<Contact> li = [SELECT Id, Name, Phone, Account.Name FROM Contact];
7          System.debug('List of Contact==>' + li);
8          return li;
9      }
10     //Data Creating
11     /* @HttpPost
12     global static List<Contact> childClassMethod2(){
13
14         List<Contact> li = [SELECT Id, Name, Phone, Account.Name FROM Contact];
15         System.debug('List of Contact==>' + li);
16         return li;
17     }*/
18 }
```

ruby-data-64542-dev-ed.cs114.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

All Algorithm in Py... bounty Salesforce cdnjs CODEOPEN JavascriptCompiler RegEx Tester JSON Beautifier JSON2Apex FinTech & API

File Edit Debug Test Workspace Help Log executeAnonymous @5/30/2021, 8:54:37 AM JSON2Apex.apxc ParentClass.apxc Log executeAnonymous @5/30/2021, 10:27:50 AM

Execution Log

Time	Event	Details
10:27:50:714	USER_DEBUG	[33][DEBUG]>> res [(attributes)]<type>="Contact"<url>"services/data/v51.0/sobjects/Contact/0035g000005QAGRAAW"</id>"0035g000005QAGRAAW"<Name>"Rose Gonzalez"<Phone>"(512) 757-4629</id><resultMap>=>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB)), Acco
10:27:50:728	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB)), Acco
10:27:50:729	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB)), Acco
10:27:50:761	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:763	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:765	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:766	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:767	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:769	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:771	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:772	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:774	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:775	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:776	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:777	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:778	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:779	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:780	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:781	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:782	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:784	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:785	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:787	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:789	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:791	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco
10:27:50:792	USER_DEBUG	[33][DEBUG]>> resultMap[0]=>>((Account<id>=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), AccountId=0015g00000Cvck7AAAB, Name=Edge Communications, attributes=(type=Account, url=/services/data/v51.0/sobjects/Account/0015g00000Cvck7AAAB), Acco

This Frame Executable Debug Only Filter Click here to filter the log

Logs Tests Checkpoints Query Editor View State Progress Problems

Name Line Problem

File Edit Debug Test Workspace Help Log executeAnonymous @5/30/2021, 8:54:37 AM JSON2Apex.apxc ParentClass.apxc Log executeAnonymous @5/30/2021, 10:27:50 AM

Code Coverage: None API Version: 51

```
1 public class ParentClass {
2
3     public void controllerMethod(){
4         ParentClass.AuthRes authRes = new ParentClass.AuthRes();
5         authRes.authenticationMethod();
6
7         System.debug('access_token==>' + authRes.access_token );
8         System.debug('instance_url==>' + authRes.instance_url );
9         System.debug('id==>' + authRes.id );
10        System.debug('token_type==>' + authRes.token_type );
11        System.debug('issued_at==>' + authRes.issued_at );
12        System.debug('signature==>' + authRes.signature );
13
14        Http h = new Http();
15        HttpResponse res = new HttpResponse();
16        HttpRequest req = new HttpRequest();
17
18        req.setEndpoint('https://brave-bear-1zteug-dev-ed.my.salesforce.com/services/apexrest/ContactFetcher');
19        req.setMethod('GET');
20        req.setHeader('Authorization','Bearer '+authRes.access_token);
21        //req.setHeader('Content-type','application/json');
```

Logs Tests Checkpoints Query Editor View State Progress Problems

Name Line Problem

File Edit Debug Test Workspace Help Log executeAnonymous @5/30/2021, 8:54:37 AM JSON2Apex.apxc ParentClass.apxc Log executeAnonymous @5/30/2021, 10:27:50 AM

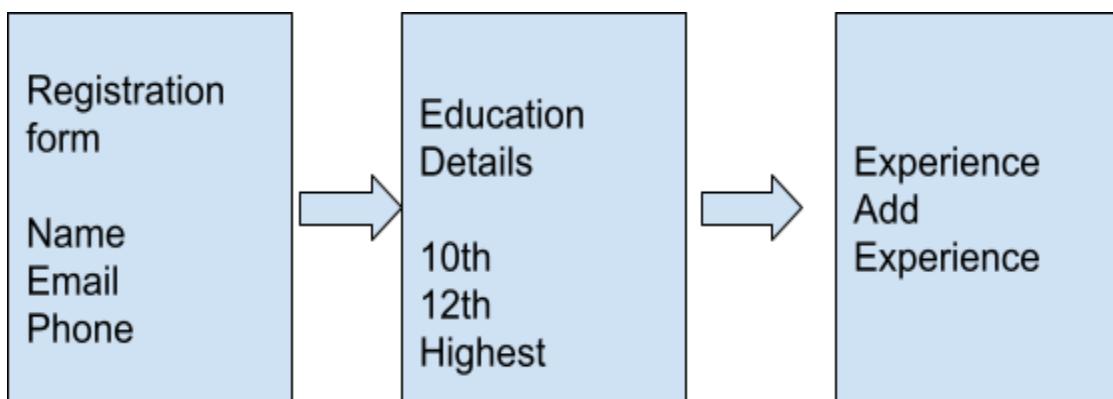
Code Coverage: None API Version: 51

```
1 public class JSON2Apex {
2
3     public Attributes attributes;
4     public Account Account;
5     public String Id;
6     public String Name;
7     public String Phone;
8     public String AccountId;
9
10    public class Attributes {
11        public String type;
12        public String url;
13    }
14    public class Account {
15        public Attributes attributes;
16        public String Id;
17        public String Name;
18    }
19
20    public static JSON2Apex parse(String json) {
21        return (JSON2Apex) System.JSON.deserialize(json, JSON2Apex.class);
22    }
23}
```

Logs Tests Checkpoints Query Editor View State Progress Problems

Name Line Problem

Project 3:



Save All details from previous screen

And after final saving trigger the confirmation email

Event
Dynamic binding
Server Side Submitting
Email Alert

First screen submit take response id and pass it

Logic: After submitting first screen data, get the id and pass that id in subsequent screen

**Page Layout, Record Type, Profile entitlement,
Workflow (record_type)field update,
trigger(lookup field value update) , flow(auto create record)
Communication is completed (through record based trigger flow)**

Communication is completed(field update) (through trigger)

←—————>
Database architecture set:

Sales Home Registration_Form Registration_form_details Education Experience Opportunities Leads Tasks Files Accounts Contacts More

Registration_form_detail Reg-0019

New Contact Edit New Opportunity

Related		Details
Sr.No	Reg-0019	Owner User User
Candidate Name	Shubham the boss	
Candidate Email	test6@gmail.com	
Candidate Phone	(123) 545-7890	
Candidate Education	Edu-010	
Candidate Experience	EXP-00007	
Yr of Experience	5.00	
Created By	User User	Last Modified By User User, 6/1/2021, 6:21 AM

Activity

New Event New Task Log a Call

Set up an event... Add

Filters: All time • All activities • All types Refresh • Expand All • View All

No next steps.
To get things moving, add a task or set up a meeting.

No past activity. Past meetings and tasks marked as done show up here.

Type here to search

Registration_form_detail Reg-0019

New Contact Edit New Opportunity

Related		Details
Education (1)		
Sr.No	Edu-010	New
View All		
Experience (1)		
Sr.No	EXP-00007	New
View All		

Activity

New Event New Task Log a Call

Set up an event... Add

Filters: All time • All activities • All types Refresh • Expand All • View All

No next steps.
To get things moving, add a task or set up a meeting.

No past activity. Past meetings and tasks marked as done show up here.

Type here to search

Registration_form_details All121

New Import Change Owner Printable View

8 Items • Sorted by Sr.No • Filtered by All registration_form_details • Updated a few seconds ago

<input type="checkbox"/>	Sr.No ↑	Candidate Name	Candidate Email	Candidate Phone	Yr of Experience
<input type="checkbox"/>	1 Reg-0001	Shubham	test@gmail.com	123644588	2.00
<input type="checkbox"/>	2 Reg-0002	Dhanuka	test2@gmail.com	(236) 545-7899	3.00
<input type="checkbox"/>	3 Reg-0003	Mohan	test3@gmail.com	12364478	0.00
<input type="checkbox"/>	4 Reg-0016	Pyare	test4@gmail.com	123654789	0.50
<input type="checkbox"/>	5 Reg-0017	Test5	test5@gmail.com	123654789	0.00
<input type="checkbox"/>	6 Reg-0018	Test	test@gmail.com	1234569870	3.00
<input type="checkbox"/>	7 Reg-0019	Shubham the boss	test6@gmail.com	1236547890	5.00
<input type="checkbox"/>	8 Reg-0020	shubham the boy	test7@gmail.com	789654412330	0.00

Done with Flow

The screenshot shows a Microsoft Dynamics 365 application window. At the top, there's a navigation bar with a cloud icon, the word 'Sales', and various menu items like 'Home', 'Registration_Form', 'Registration_form_details', 'Education', 'Experience', 'Opportunities', 'Leads', 'Tasks', 'Files', 'Accounts', 'Contacts', 'More', and a pencil icon for editing.

The main area is titled 'Registration_form'. It contains several input fields:

- 'Candidat Name' (Candidate Name) with a placeholder 'Enter your name'.
- 'Candidat Email' (Candidate Email) with a placeholder 'Enter your email'.
- 'Candidat Phone' (Candidate Phone) with a placeholder 'Enter your phone no'.

At the bottom right of the form area is a blue 'Next' button.

The taskbar at the bottom of the screen shows the Windows logo, a search bar with the text 'Type here to search', and several pinned icons for applications like File Explorer, Edge, Word, Excel, and others. On the far right, it displays the date '01-06-2021' and time '19:05', along with system status icons.

This section is titled 'Enter your Education Details!!'. It includes:

- A checkbox for 'Candidate 10th pass'.
- A checkbox for 'Candidate 12th pass'.
- A text input field for 'Candidate Graduate'.

At the bottom right of this section is a blue 'Next' button.

This section is titled 'Enter your employment Details!!'. It includes:

- A text input field for 'Company Name'.
- A text input field for 'Yr of experience'.

At the bottom right of this section is a blue 'Next' button.

The final section displays a message: 'Thank you, your record has been submitted.' Below this message is a blue 'Finish' button.

With LWC:

Registration data will go to server

Registration Form -----> Database server

-----<

In response, will get record id

Id will create a event

Clicking on Next button on first screen:

- 1) Submitting the data
- 2) And in response creating id and move to next screen

Will pass that registration form id and education data

----->

Education form

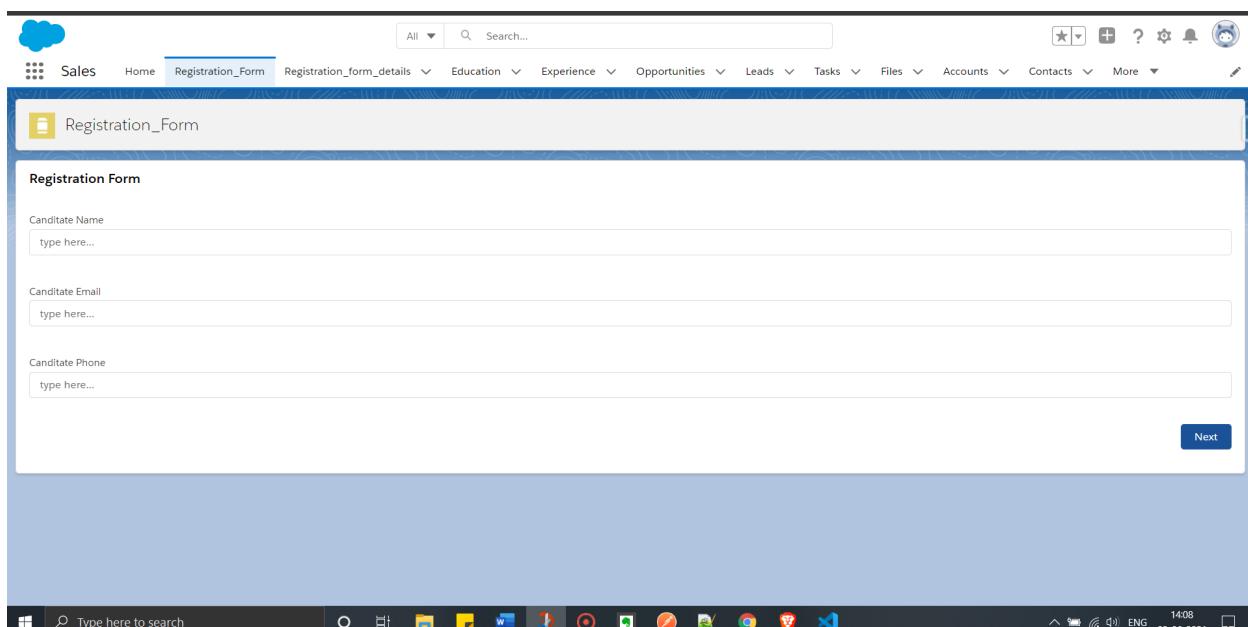
Database server

Will pass that registration form id and experience data

----->

Experience form

Database server



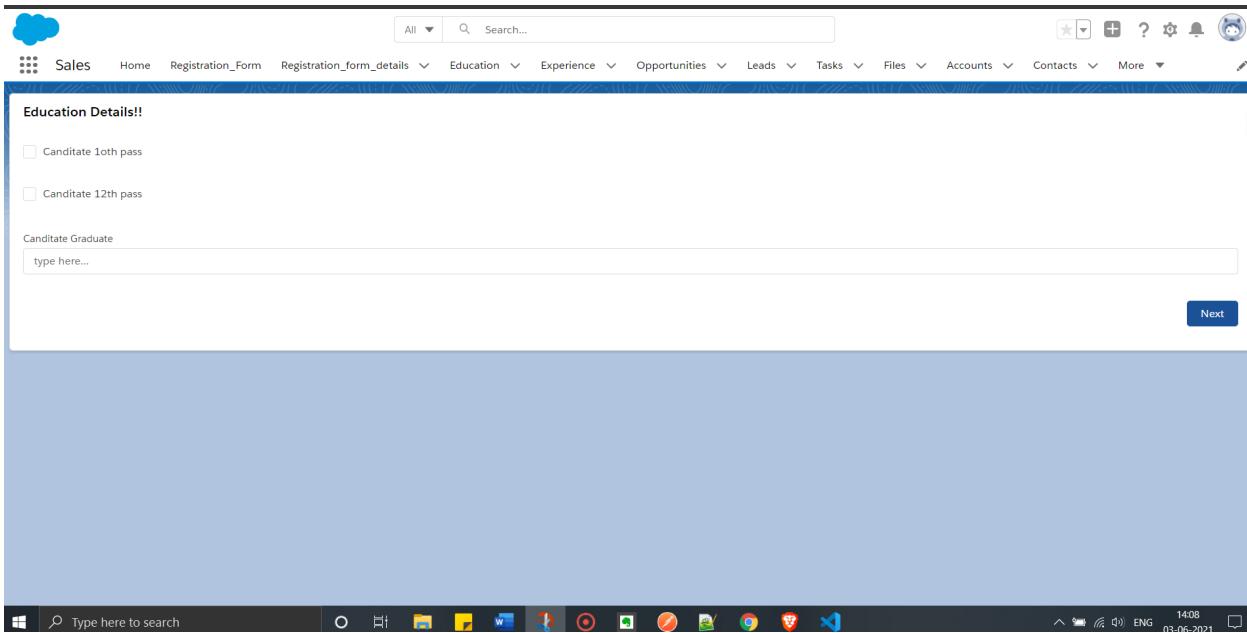
Sales Home Registration_Form Registration_form_details Education Experience Opportunities Leads Tasks Files Accounts Contacts More

Education Details!!

Candidate 10th pass
 Candidate 12th pass

Candidate Graduate
type here...

Next



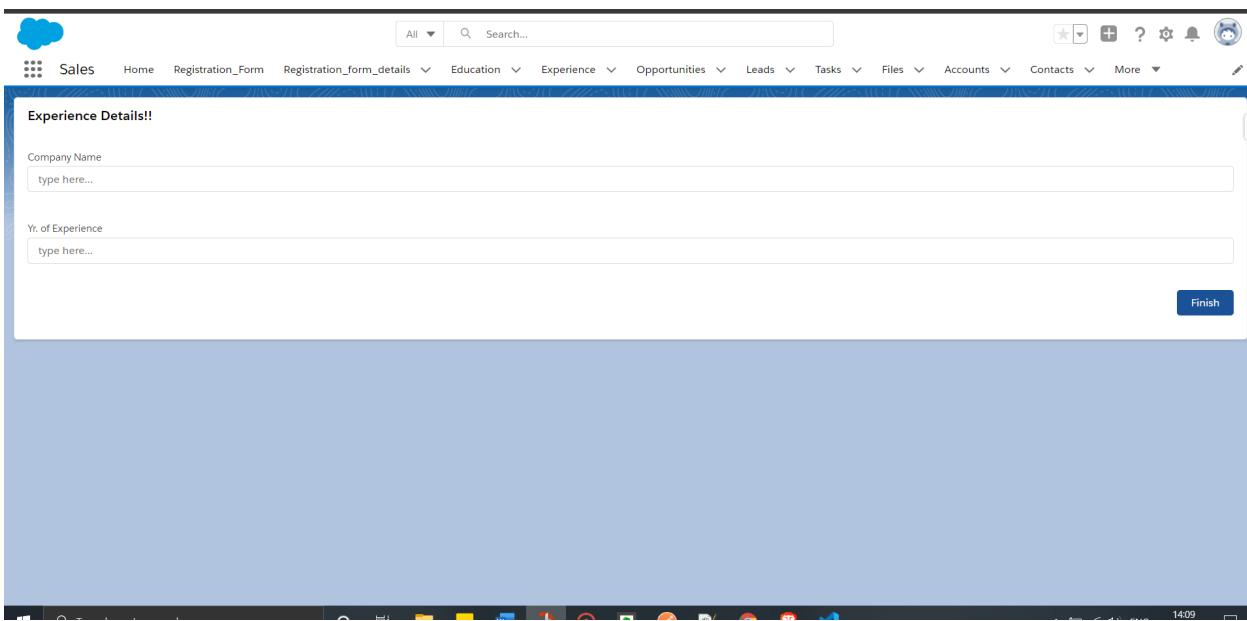
All Search... Sales Home Registration_Form Registration_form_details Education Experience Opportunities Leads Tasks Files Accounts Contacts More

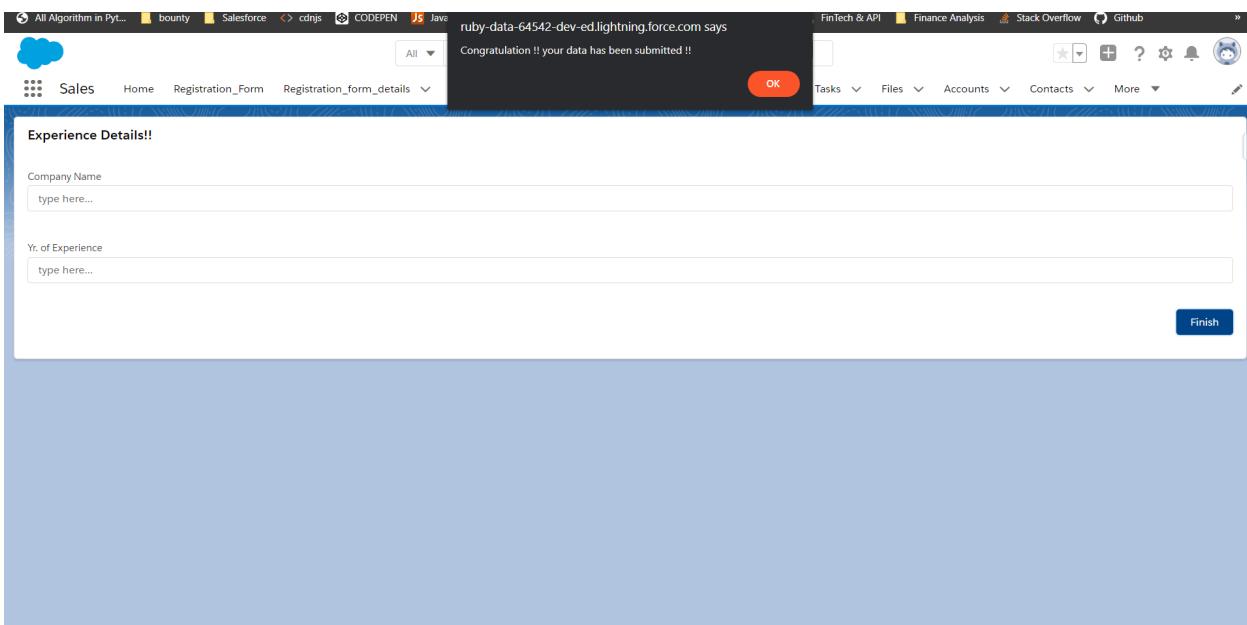
Experience Details!!

Company Name
type here...

Yr. of Experience
type here...

Finish





FIRST USE CASE :

====> WEALTH MANAGEMENT :::

Second UseCase ⇒ Loan processing

KIVA : Salesforce with loan lending, repayment

Application

Underwriting

Decision

Offer

Document Processing

Closing

Identified the customer (social advertisement)

Know the authenticity (OCR, facial, document)

Get the process done (get processed all the data)

Common to all: (Integration with vendor)

Salesforce with finance service

How IPO WORK:: Category:

- 1) Institute (QIP)
- 2) HNI (NRI)
- 3) Retail
- 4) Company (Promoter Holding)

Filtration :

- 1) Wrong Application
(Double with Same pan card, UPi Error, Bank broker acc name difference)
- 2) Not Cut off Price

Normal Subscription: 1-> n

High Subscription : n->1

How Share Market Work: Buying and Selling at a Certain Price

Equity: Loan + interest on profit

Debt : Loan + Interest

Promoter \Rightarrow Raise Money \Rightarrow Diluted Equity \Rightarrow Less Ownership
Profit Increase // Market Cap increase (PE Ratio)

Offer for sale(**Selling Again**), Share BuyBack (**Buying again**)

Dividend (Profit and bonuses) (EBIDATA/ CAGR)

Number of share= Total Market cap/ face value

Value per share = Total Market Cap/ No of share

Holding = Total amount invested / Per share value

Transaction Keeps happen and value increase

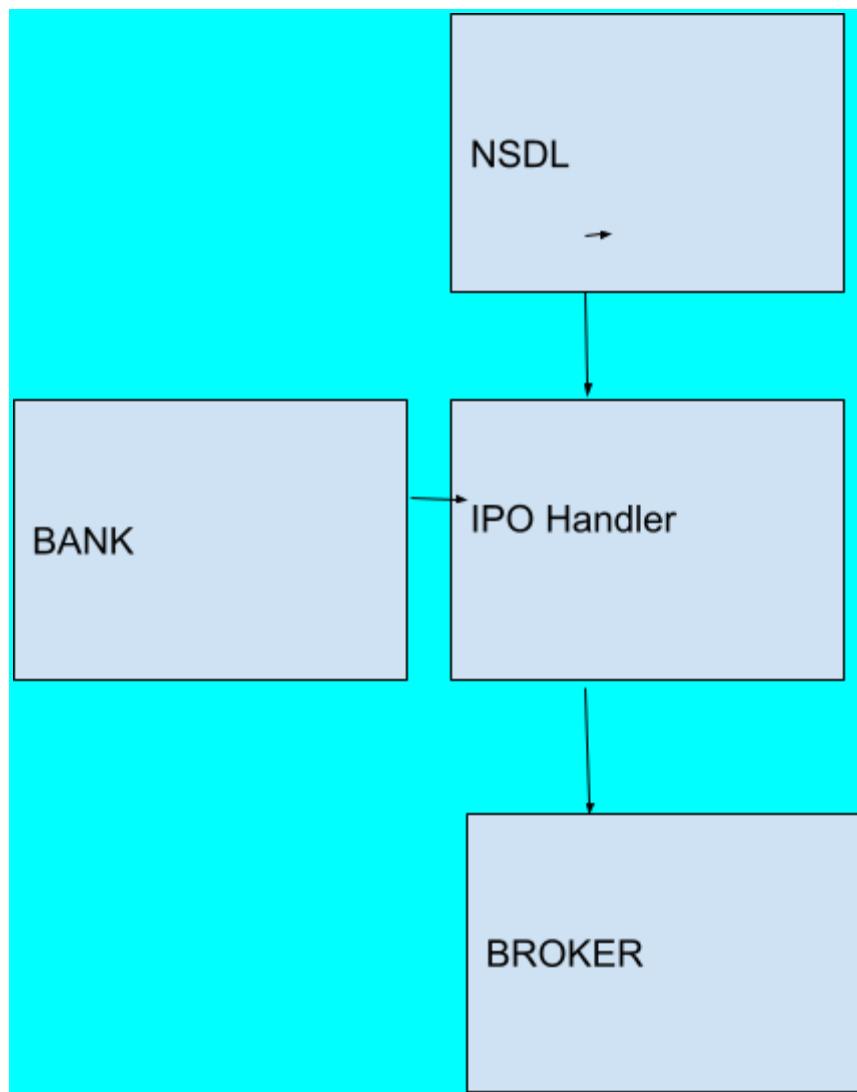
If transaction gets hold

Share split up

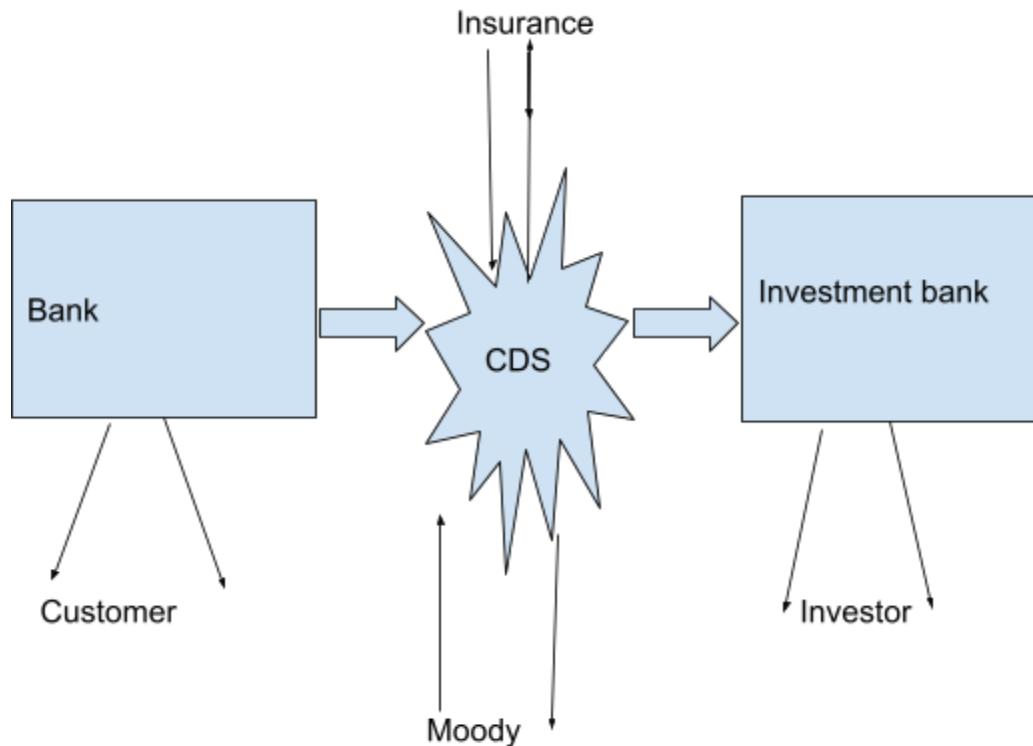
Key:-

Get early in boat

Publicly goes to avoid Conflict



How mortgage work:-



Fourth Use Case: (Live data updating) : Salesforce with Stock Wealth Management Penny Stock Query ::::

```
Market Capitalization > 200 AND Return on equity > 20 AND  
Free cash flow 5years > 0 AND Free cash flow 10years > 0 AND  
Debt to equity < 1 AND Interest Coverage Ratio > 3.5 AND  
Return over 1year > 0 AND Return over 5years > 10 AND  
Promoter holding > 35 AND Sales growth 10Years > 7.5 AND  
Sales growth 5Years > 7.5 AND Profit growth 10Years > 15 AND  
Profit growth 5Years > 17.5 AND Profit growth 3Years > 10 AND  
Profit growth > 0
```

ratestar.in/company/greenpanel/542857/greenpanel-industries-ltd-295732

All Algorithm in Pyt... bounty Salesforce cdnjs CODEPEN JavascriptCompiler RegEx Tester JSON Beautifier JSON2Apex FinTech & API Finance Analysis Financial Services C... Stack Overflow

Company Greenpanel Industries Ltd.

Snapshot Chart Quarterly Annual Results Balance Sheet Cash Flow Financial Ratio Top Investors & Annual Reports

Greenpanel Industries Ltd.

Wood & Wood Products

Rating : ★★★★☆ 72/99

BSE: 542857 | NSE: GREENPANEL Watchlist

NSE BSE

229.35 29-Jun-2021

	Open	228.80	Volume	100618
High	232.00	Traded Value (acs)	228.96	
Low	225.00	52 Week High	268.00	
Previous Close	223.95	52 Week Low	35.90	

Stock Summary

Market Cap(Crs)	2,846.79	Enterprise Value(Crs)	3,221.69
Stock P:E	41.37	Dividend Yield	N/A
Face Value	1	Price:Book Value	3.90

Shareholding Pattern

Promoter	53.10%	FII	4.21%
Corporate	3.88%	DII	17.58%
Public	18.62%	Others	2.61%

Chart Price | P:E | P:BV | EV:EBITDA | MCap:Sales | EPS

Zoom 1m 3m 6m YTD 1y All Dec 29, 2020 — Jun 29, 2021 250 17:21

Type here to search

Feedback

Accenture Task1:

Email Message is an Object where all email related informations have been stored.

- 1) It is not accessible from app launcher and it has no UI Record capabilities so lightning record page also can not be created.
- 2) It always comes under the relation of the object from where it's being shared.

Launching a flow :

From a record details page or detail page button

Recordid can be passed in that flow.

Record details Page Layout configuration is needed when to pass record id

For details page button it is not needed as it automatically passes it.

Note: record id while declaring the variable

Duplicate: get, create with update and delete previous one

One field : workflow

Entire object material : trigger, screenflow

Refresh :

Redirection : **Navigation to record**

Accenture Task2:

Multilingual language org, business hour, holiday, email template (seperate folder, one email translation)

Task 3_Accenture_Company_project :

To transform the TransferEmailMessage flow into omni script

What i did in flow:

- 1) Pass the record id in flow by adding flow in a button and through button pass record id
- 2) Get the email message record of that case id
- 3) In screen show to enter a new case
- 4) Create a new email message record of that new case with exact same data
- 5) Delete old email message
- 6) redirect / refresh to new record

Same procedure in omniscrypt:

Example: edit any account through omni script

- 1) Load the particular data
 - 2) Show the field that you wanna edit
 - 3) Save the data
 - 4) Navigate
-

Personal Project:

- 1) SFDC Blog
- 2) Youtube video creator



1st video :

What is salesforce? Cloud framework ? Application ?

sales, marketing, service, health could, fsc

Vlocity

2nd video :

How to pass record id to flow ?

2 ways (through button and through page record id)

Accenture Email-to-Case Task: (ID 40)

- 1) Email-to-Case
- 2) Queue (Administrative)
- 3) Organization wide address
- 4) Gmail Verification and forwarding email message setting

Question:

Dev Org Access?

Email Address Access?

Who will be the members in the Administrative queue?

Auto Labelling :

- 1) case setting added on routing
- 2) case record type page

3) trigger to update : post deployment step of custom label value update

4) Metadata Wrapper

Auto response (Case Auto Response)

Auto response after customer send first email (Support Setting)

If still email does not gets created, check required fields for case creation

Development: (Configuration)

- 1) Trigger**
 - 2) Test Class**
 - 3) Post deployment step to update custom label**
-

Accenture: (ID 60)

1) Case page Layout

Fields

Email related tab List

Feed

Accenture: US 79: claim assessment task creation through action plan

1) Task Record creation

2) Activity object field

How are Activity object fields shown on task objects?

because custom fields for Tasks and Events are created at the Activity level.

(record type we need to create)

3) Type can not be filled to internal task : use by default value

How to include more fields on task object Area on Action Plan template? : NO

How to use record type in assignment of task creation through action plan? :NO

From where these fields are populating on this record ?

Accenture Full Work Outline :

- 1) Standard Email-to-Case
- 2) Custom Email-to-case
- 3) Preliminary Classification
- 4) Case Categorization
 - => Status changes, get assigned to right queue
 - => Auto linking of entitlement and service agreement happens
- 5) Queue Member can see and assign themselves
 - => Milestone start
- 6) Claim Creation happens
- 7) Auto claim participant creation happens
- 8) New claim participant/ Broker functionality
- 9) Internal Request for processing functionality done
- 10) Manual Submission, Auto Submission, Auto Approved functionality happens
- 11) Queue Assignment, field validation, Workaround functionality
- 12) Notification, task, note, attachment, field value updation happens
- 13) Checklist
- 14) object, field, validation rule, page layout, record page, list view

Accenture Account Model:-

Account (Individual, Household, partner-broker)

Person Account (Customers, Partners)

Customers: insured parties(family, employees), policy owners

Partners: witness, lawyer

Flow: After partner creation, just check whether they are owning the policy or not if yes create a customer account for that.

Note: one person can be a customer, and can be a partner as well.

Flow2: when a claim gets registered, claim participant gets created with policy and if the claim participant is not registered in account as a person account then create a person account as well.

Case with insurance policy <=> Claim with Insurance Policy

Account => Contact

Product => Insurance Policy => Coverage type => Insurance policy Coverage

Basic steps to understand in details:-

1) Case Creation (Email service handling)

2) Case Categorization (based on department, language)

case is in Handling/ Assessment stage

3) Claim Creation

covered, Not covered

Allow in both cases and if not covered then create a internal request to check and then cancel or allowed for covered

4) Automatic Claim Participant creation, Manual participation creation

Claim in handling/Assessment stage

5) checklist of claim assessment, internal request to shorted out all the issues

6) Creation of claim coverage

7) Payment processing

button to launch the component:-

<https://salesforcediaries.com/2020/10/06/open-lightning-component-from-url-button-in-lightning/>



Direct landed on creation page with what record type and request type needs to be processed :-

preselected checkbox value on creation page

preselected picklist value on creation page

This is Navigation:-

Open for creating new record

Open for creating new record with default value

HTML:

```
<template>
    <h1>Here we want to learn!!</h1>
    <lightning-button label="Navigation" title="Non-primary
action" onclick={Navigate}>
    </lightning-button>
    <lightning-button label="navigatettonewrecord"
title="Non-primary action" onclick={navigatettonewrecord}>
    </lightning-button>
    <lightning-button label="navigatettonewrecordwithvalue"
title="Non-primary action"
        onclick={navigatettonewrecordwithvalue}>
    </lightning-button>
</template>
```

JS:-

```
import { LightningElement } from 'lwc';
import { NavigationMixin } from 'lightning/navigation';
import { encodeDefaultFieldValues } from 'lightning/pageReferenceUtils';
export default class LightningWebComponentLearning extends
NavigationMixin(LightningElement) {
    Navigate() {
        this[NavigationMixin.Navigate] ({
            type: 'standard__namedPage',
            attributes: {
                pageName: 'home'
            },
        });
    }

    navigateToNewRecord() {
        this[NavigationMixin.Navigate] ({
            type: 'standard__objectPage',
            attributes: {
                objectApiName: 'Contact',
                actionName: 'new'
            },
        });
    }

    navigateToNewRecordWithValue() {
        const defaultValues = encodeDefaultFieldValues({
            FirstName: 'Shubham',
            LastName: 'Dhanuka',
            LeadSource: 'Other'
        });
        this[NavigationMixin.Navigate] ({
            type: 'standard__objectPage',
            attributes: {
                objectApiName: 'Contact',
                actionName: 'new'
            },
            state: {
                defaultFieldValues: defaultValues
            }
        });
    }
}
```

Duplication Rule:-

Standard Duplication and matching rule is there.

In the Standard way when you create a record, it will give you the error.
But suppose u are not creating a record in standard way (new button)

In that case:-

Two way:-

First:

Use Database.insert and map out all failure record and show duplication record

Second:-

```
public class AccountRecords {  
    public string accname = 'sForce';  
    private boolean allClear { get; set;}  
  
    public AccountRecords(){  
        allClear = true;  
    }  
  
    public void saveData(){  
        allClear = true;  
        Account acc = new Account(name=accname);  
        list<Account> accounts = new list<Account> ();  
        accounts.add(acc);  
        //accounts = [select Name from Account];  
        list<Id> ids = new list<Id>();  
        Datacloud.FindDuplicatesResult[] results = Datacloud.FindDuplicates.findDuplicates(accounts);  
        for (Datacloud.FindDuplicatesResult dupeResult : results) {  
            for (Datacloud.DuplicateResult dupeRes : dupeResult.getDuplicateResults()) {  
                for (Datacloud.MatchResult matchRes : dupeRes.getMatchResults()) {  
                    for (Datacloud.MatchRecord matchRec : matchRes.getMatchRecords()) {  
                        allClear = false;  
                        ids.add((string)matchRec.getRecord().get('id'));  
                    }  
                }  
            }  
        }  
        if(!allClear){  
            System.debug('size of duplicate' + ids.size());  
            System.debug('duplicate id' + ids);  
        }  
    }  
}
```

ARAG Object Model

Account : (Customer, Competitor, Partners) (Person involved with your business)

Contact : (Account Name)

Case : customer request (**Account**)

Insurance policy : Type of policy (life insurance, auto, home) **(then Product segregation)**
(Product, producer, Account(M-D), claim id)

Insurance policy product : Multiple product to one insurance policy **(CP ID, insurance policy, product)**

Product : represents product (in auto (car, bike, truck)) **(u have one land of 1 cr)**

Product coverage: junction object between product and coverage

Policy: package → policy **(Coverage type, product, CP ID)(we can cover upto 10 lac)**

Coverage Type: Type of coverage (liability, earthquake, collision damage) **(CP _ID)**
(we will provide coverage in any of following coverage type)

Insurance policy coverage: junction object in between insurance policy and product coverage **(CP ID, insurance policy(M-D), coverage type)**

Customer Property: represent insurable/insured property of a customer **(CP Id, Primary owner(M-D))**

Insurance Policy Asset: represent the customer property insured through insurance policy **(CP ID, insurance policy(M-D), customer property)**

Premium pay out:

Claim : Type of claim (life insurance, auto, home) **(Product)**
(cp id, case, producer, , mass claim, Account)

Claim Coverage : insurance policy coverage for a claim
(What you covered under that package) (CP ID, claim(M-D), insurance policy coverage)
This object includes financial activities related to Claim including payout and reserves

Claim participant: A junction object associate the claim object with account object
This object includes insured, claimants, witness
(CP ID, participant account, claim(M-D), Participant contact)

Claim payment summary : represent the amount of money that is paid to claimer
(CP ID, claims(M-D))

Financial Account : investment account/ bank account / insurance policy
(CP ID, primary owner)

Financial Account Transaction :
(CP ID, Claim payment summary, claim, financial account)

Internal request : custom object that will use to store every request from claim advisor to a colleague manager and other department
(CP ID, claim, claim payment summary)

Mass Claim : Custom object used to link claims about same topics **(CP ID)**
Grouping of people under a company

Producer : represent a agent or agency selling product (Account → Contact)
(CP ID, Account, Contact)

Smart conn Integration : Document processing

Product ⇒ Policy ---> coverage (policy can have multiple coverage (1:N))(Emp, spouse)
Claim -----> Coverage (1:N relationship)
One event can have multiple incidents (window, table, bicycle)

Policy and claim management :-

- 1) Product management
- 2) Quote management
- 3) Policy management
- 4) Claim management
- 5) Offer/Contract management
- 6) Attribute

Sales and broker management :-

- 1) Account and contact management
- 2) Opportunity management
- 3) Campaign management

Customer Service:-

- 1) Case management
- 2) Omnichannel

Broker Portal:-

- 1) Opportunity management
- 2) Case & complaint management
- 3) Claim & Document management

ARAG Different System:- (Mulesoft MiddleWare)

ISABEL

ZOOMIT

IBM CMS

Cloud storage (M-Files)

SAP

BanqueCarrefour

Portima

FSMA Broker scan

MS DWH

DIV (Vehicle registration)

KYC

ILEO

DIO WEB

Lead Account Creation flow (Lead to prospect broker(Account) creation)

Lead : signing up on the site, filling out a form, downloading a buyer's guide, giving their information at a trade show booth, etc

NEWS: twitter authentication and feed news tracking

Opportunity : where we can target

Account and Contact :

Identified the customer (social advertisement) :- LEAD

Know the authenticity (OCR, facial, document):- Account, Contact

Account is having parent account (Master-Details Relationship)

E.g:- Accenture global company

Accenture India, Accenture Uk all are account to Accenture global and all are account

One particular entity (parent, child) have their spoken person (call contact)

After the lead process, Once Lead is converted to Account, Account record type is set up as a partner broker.

Get the basic information, fill in the details, get an approval, sign the agreement and onboard it.

#Supplier Onboarding

Prospect (Broker) Account to customer creation

Experience cloud (Community setup) (revolving around with community)

Signed Agreement

Customer

Customer to client creation :-

Product/services => price/ Quote(offer) => Opportunity (Account)

Account, policy Creation flow :-

Define product

Define price

Define Quote

Define Contract

Define Product : (Multi product policy set up) (*this is product & services i am having*)

Product page information:

Coverage

Insured item

Rating

Attribute

Rule

Simulation

Define Price :-

Define Quote (Offer) (different type)

=> **Quote_Add_product**

Can be general

Can be user specific

=> **require Approval**

Quote (lookup to insurance policy) (Quote)

Quote Line item (master details to Quote) (lookup to product) (QuoteLineItem)

Quote Pricing Adjustment

Quote Line Item pricing Adjustment

Quote: Proposed price of company product and service

It can be created from Opportunity, Product and Account itself

Quote line item : different combination with product and services

For service:

Silver, gold, platinum package (Quote for the services)

Each opportunity can have multiple Quote

Define Contract (Policy)

Once a contract is signed, we have step of actions/stages that has to be taken for the contract :-

Final draft after negotiation

Approval

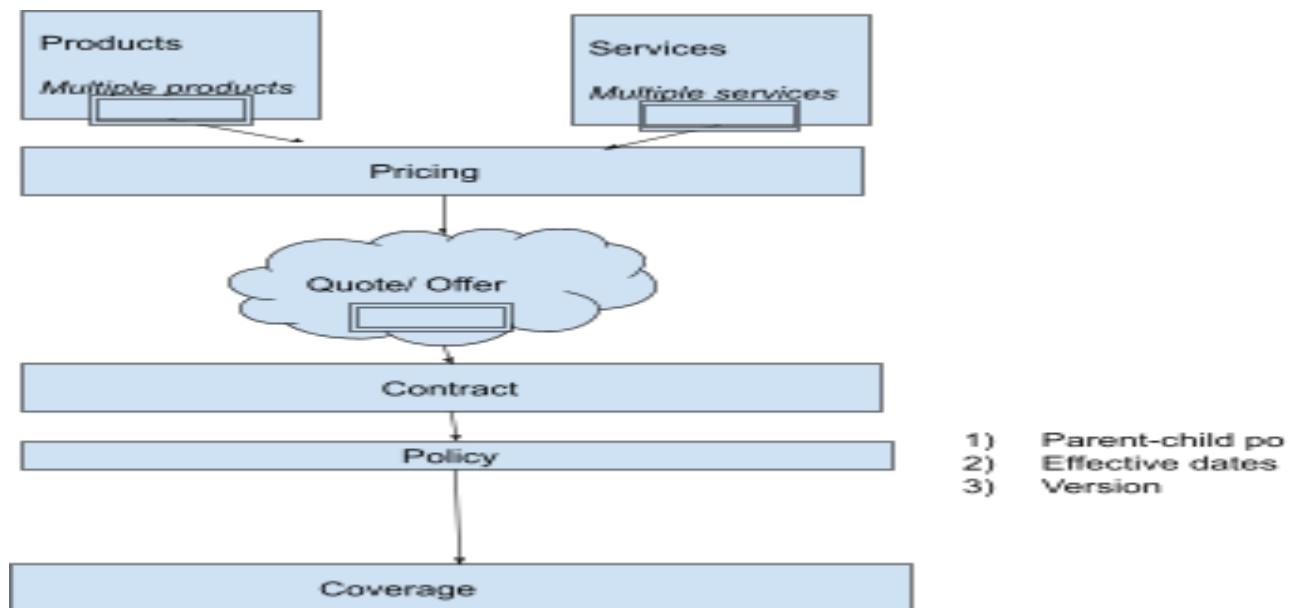
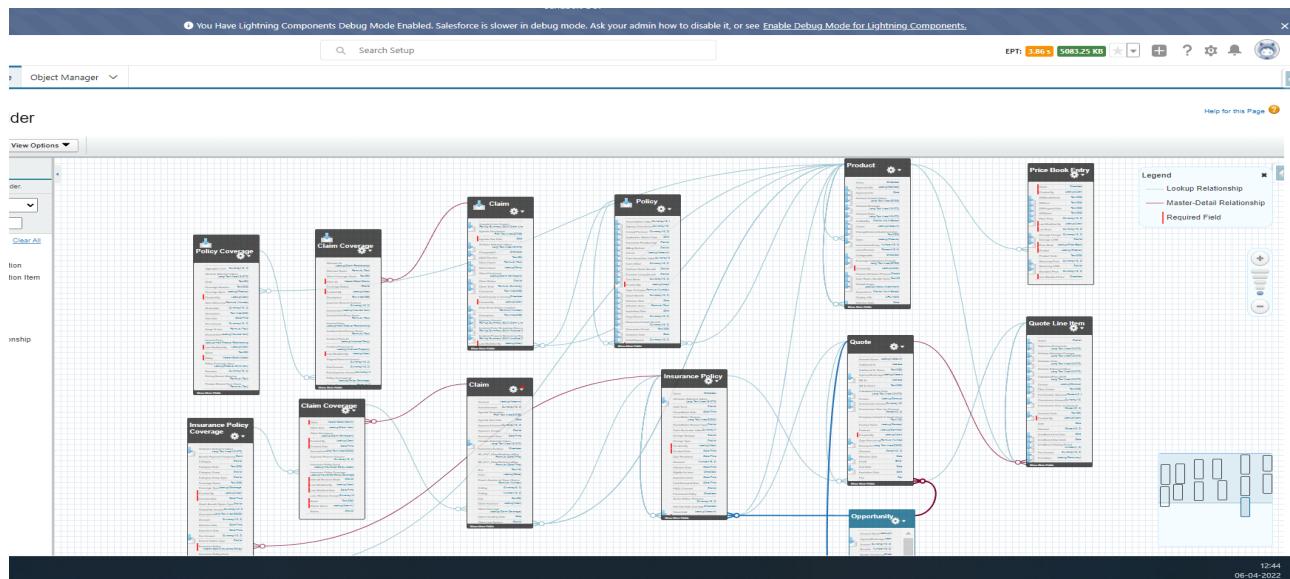
Signed

Expired, Renew , Terminated

Document Processing (Get the process done (get processed all the data))

- 1) Insured items
- 2) Effective dates
- 3) Policy version
- 4) Payment permium

Closing



Services Management :-

Case And Claim Creation flow:-

Case comes to Salesforce (Email Messaging service)
Preliminary classification (record triggering flow on email message)
Case categorization (OS and record triggering flow on case object)
Case stage of processing

Different record type creation:

- 1) LHL => (Combination of language and department and type) =>Queue assignment
- 2) Claim => (Combination of language and department and type) => Queue assignment
- 3) Whistle blower => for internal user => any Misbehave => Legal team assignment
- 4) Complaint => services related => complaint management
- 5) Product => product feedback => Product team

Claim creation (OS) :-

Claim gets created
Claim participation records gets created (record triggering flow)

Claim Assessment :-

Same with Policy (Parent -> Child)

Policy (Self lookup to policy) (**InsurancePolicy**)

Claim (lookup to Policy) (**Claim**)

Claim Coverage (master details to claim) (**ClaimCoverage**)

Policy Coverage (Lookup to claim coverage, master details to policy)(**InsurancePolicyCoverage**)

INTERNAL REQUEST MODULE:- (can be created from case/ claim page layout)

Type of internal request :

Record creation, Auto record details populated

Record Assignment:

Queue, Queue Notification (BE_PH1_ownerfieldUpdate)

Submission:-

(Auto Submission)

(Manual Submission)

AutoApproval Mandatory: Flow intervention (BE_PH1_InternalRequestTrigger)

Approval Trigger, AutoLaunchedFlow

Reject

Notification:-

Task Creation

Notes Creation

Notification

Outsourcing to Lawyer :-

At stages validation rules are there to prevent any misbehave or any confidentiality mismatches

Salesforce outlook integration:-

So Agent/ or any person is working on emails, they wanna have same view on outlook as well without login to salesforce.

We can do that.

- 1) its like salesforce web
- 2) salesforce mobile application
- 3) Salesforce connection so they can view in outlook as well.

Same as mobile app configuration :-

- 1) View Task
- 2) View Email
- 3) Update record
- 4) Email Template / Quick short
- 5) Meeting setup

How to turn it on in salesforce ?

How to deploy it for the user?

How to do a log event or create a custom email application using Lightning App builder?

Advance feature:-

Einstein Activity :

- 1) Automate Email
- 2) Event logging
- 3) Sync Contact
- 4) Calendar events

Security : Salesforce email integration

Einstein Activity capture

More information :-

<https://getoncrm.com/outlook-integration-with-salesforce-a-step-by-step-guide/>

Product specification :-

- 1) Root product e.g (Human Body)
- 2) Insured Item and party specs e.g (eye)
- 3) Coverage specs e.g (eye burn, eye disorder) (**eye check up is allowed not specs**)

Define the attribute: -E.g : (Maximum price, Minimum price) (specification) (fact)

E.g: color, skin

Define the rule :- (specification rule) e.g (Hospital network rule)

- 1) Workgroup
 - 2) Workgroup member
 - 3) Workgroup rule
-

Company is : Home Heaven

Product is : HomeOwners Insurance product

Root product

Product code

Insured item and party specs

 Insured item

 Product code

 Parent code

Rating and rule

Offer

Mutliproduct select => Multi item select => calculate premium

Follow the process => once finalize

Issue policy

Modication:

Endorsment => Correction => Modification => Creating version of policy

And it also creating version of policy whose products are not in effective state

Brokerage Commission:

Brokerage commission

