Candidate Enquiry Object:



andidate <u>Enquiry</u> Edit	Save & I	New Cancel	
Candidate Information			
Candidate Name		Gender	None 🗸
Guardian	None 🔻	Date Of Birth	[10/23/2013
Guardian Name		Father Occupation	
Community	None	Mother Occupation	
Course	9	Family Annual Income	
Proofs Submitted	Available Ration Card Aadhaar Card PAN Card	en	
Passport No			
ducational Details			
Educational Qualification	None 🔻		
Year of Pass	-None- v i		
Passed out Organization			
Contact Details			
Mobile No		Father's Mobile No	
Address for Correspondence		Email	
Permanent Address			
ourse Information			
Interested Course 1	- Trong-	Other Interested Course	

Field Name	Data Type	Value
C	andidate Information Section	on
Candidate Enquiry No	Auto Number	CE-{0000}
Candidate Name	Text, Required	80
Guardian	Pick list	Father, Mother, Husband,

		Guardian		
Guardian Name	Text, Required	80		
Community	Pick list	SC, ST, BC, OC, Muslim Minority, Christian Minority, Others		
Course	Look-Up	-NA-		
Proofs Submitted	Multiple Pick list	Ration Card, AdhaarCard, PAN Card, Voter ID, Passport, Driving License		
Passport No.	Text	30		
Gender	Pick list	Male, Female		
Date Of Birth	Date	NA		
Age	Formula, Required	YEAR(Today())-YEAR(DOB)		
Father Occupation	Text, Validation	Only Alphabets		
Mother Occupation	Text, Validation	Only Alphabets		
Family Annual Income	Currency	NA		
E	Educational Details Section	n		
Educational Qualification	Pick list	SSC, Intermediate, Diploma, Degree, B.Tech, MBA, MCA, PG		
Year Of Pass	Pick list, Required	up to 1990		
Passed Out Organization	Text, Required	100		
	Contact Details Section			
Mobile No	Phone, Required	NA		

Address For	Text Area	NA
	Text Alea	IVA
Correspondence		
Permanent Address	Text Area, Required	NA
	DI.	210
Father's Mobile No	Phone	NA
Email	Email	NA
		INA
	Course Information Section	n
		•
InterestedCourse 1	Pick list	Core Java, Cloud
		Computing, Oracle
		Financials, Oracle ADF,
		Oracle DBA, Spoken
		English, Communication
		Skills, Personality
		Development, Tailoring,
		Yoga, Tally ERP
InterestedCourse 2	Pick list	Core Java, Cloud
		Computing, Oracle
		Financials, Oracle ADF,
		Oracle DBA, Spoken
		English, Communication
		Skills, Personality
		Development, Tailoring,
		Yoga, Tally ERP
Other Interested Course	Text	100
Other interested Course	I EXL	100

Student Object:



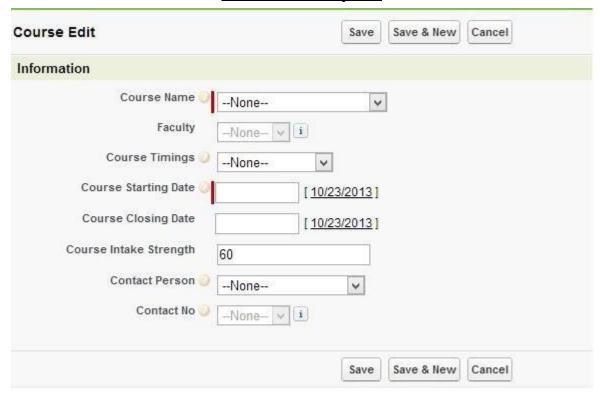
tudent Edit	Save & New Canc	el	
Student Information			
Student Name		Gender	None 🗸
Guardian Fath	er 🗸	Date Of Birth	[10/23/2013]
Guardian Name		Father Occupation	
CommunityNoi	ne 🔻	Mother Occupation	
Course	<u></u>	Family Annual Income	
Aa PA			
Passport No	3000		
ducational Details			
Educational Qualification N	one 🔻		
Year of Pass	one- v i		
Passed Out Organisation	and the second s		
Contact Details			
Mobile No		Father's Mobile No	
Address For Correspondence		Email	
Permanent Address			
Course Information			
Interested Course1N	one	Other Interested Course	
Interested Course 2	one- v i		

Field Name	Data Type	Value
	Student Information Sectio	n
Student Name	Text, Required	80
Guardian	Pick list	Father, Mother, Husband, Guardian
Guardian Name	Text, Required	80

Community	Pick list	SC, ST, BC, OC, Muslim Minority, Christian Minority, Others	
Course	Master-Detail	-NA-	
Proofs Submitted	Multiple Pick list	Ration Card, PAN Card, Voter ID, Passport, Driving License	
Passport No.	Text	30	
Gender	Pick list	Male, Female	
Date Of Birth	Date	NA	
Age	Formula, Required	Today()-DOB	
Father Occupation	Text, Validation	Only Alphabets	
Mother Occupation	Text, Validation	Only Alphabets	
Family Annual Income	Currency	NA	
Educational Details Section			
Educational Qualification	Pick list	SSC, Intermediate, Diploma, Degree, B.Tech, MBA, MCA, PG	
Year Of Pass	Pick list, Required	up to 1990	
Passed Out Organization	Text, Required	100	
	Contact Details Section		
Mobile No	Phone, Required	NA	
Address For Correspondence	Text Area	NA	

Permanent Address	Text Area, Required	NA
Father's Mobile No	Phone	NA
Email	Email	NA
	Course Information Section	n
InterestedCourse 1	Pick list	Core Java, Cloud Computing, Oracle Financials, Oracle ADF, Oracle DBA, Spoken English, Communication Skills, Personality Development, Tailoring, Yoga, Tally ERP
InterestedCourse 2	Pick list	Core Java, Cloud Computing, Oracle Financials, Oracle ADF, Oracle DBA, Spoken English, Communication Skills, Personality Development, Tailoring, Yoga, Tally ERP
Other Interested Course	Text	100

Course - Object:

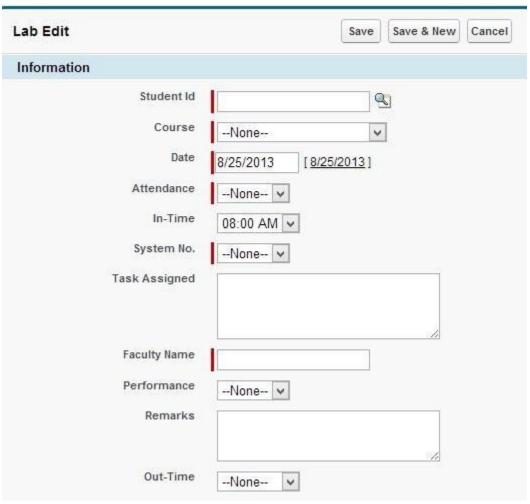


Field Name	Data type	Value
Course Id	Auto Number, Required	C Id-{0000}
Course Name	Pick List, Required	Core Java, Cloud
		Computing, Oracle
		Financials, Oracle ADF,
		Oracle DBA, Spoken
		English, Communication
		Skills, Personality
		Development, Tailoring,
		Yoga, Tally ERP
Faculty	Pick list	Pick list items
Course Timings	Pick list	Pick list Items
Course Starting Date	Date, Required	NA
Course Closing Date	Date	NA
Course IntakeStrength	Number, Default(60)	60
Registered Strength	Rollup Summery(on	NA
	Student)	

Course Duration		Course Closing Date-
		Course Starting Date
Contact Person	Pick List	Pick list Items
Contact No	Pick list	Pick list Items

Lab-Object:



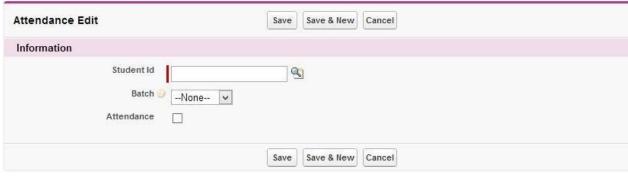


Field Name	Data type	Value
Lab No	Auto Number, Required	L-{00000}
Student Id	Master-Detail Relationship, Required	Pick from list
Student Name	Formula, Required	Student Name(Student)

Course	Pick list, Required	Core Java, Cloud
		Computing, Oracle
		Financials, Oracle ADF,
		Oracle DBA, Spoken
		English, Communication
		Skills, Personality
		Development, Tailoring,
		Yoga, Tally ERP
Date	Date(Default-Today)	Select Date
Attendance	Pick list, Required	Present, Absent
In-Time	Pick list	Time Values
System No	Pick list	1-25
Task Assigned	Text Area(Long)	NA
Faculty Name	Text, Required	80 chars
Performance	Pick list	10%,20%,100%
Remarks	Text Area(Long)	NA
Out-Time	Pick list	Time Values

Attendance:





Attendance Id	Auto Number	A-{000}
Student Name	Master-Detail(Student)	Lookup
Batch	Picklist	Batch 1,Batch2
Attendance	Checkbox	Unchecked

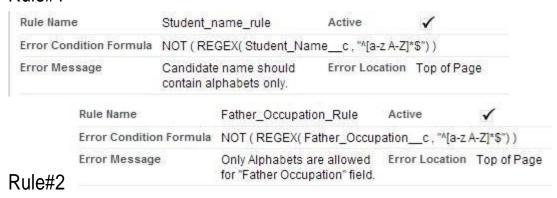
Validations:

1)On 'Candidate Enquiry' Object:

	Rule Name		Candidate_Mobile	_No_Val_Ru	le Active	✓
	Error Conditio	n Formula	AND(NOT(REGEX(Mobi	le_Noc, "	\\D*?(\\d\\D*?)	{10}")))
Rule#1	Error Messag	е	THE MOBILE NUMI NOT CONTAIN AN' CHARACTER PLEASE ENTER VA NO	Y		ion Mobile N
	Rule Name		Candidate_Name_	_Val_Rule	Active	✓
	Error Conditio	n Formula	NOT(REGEX(Can	didate_Nam	ec,"^[a-z A-	Z]*\$"))
Rule#2	Error Messag	е	ENTER THE VALID SHOULD NOT COI NUMBERS OR SPI CHARACTERS	YAA AIATA	Error Location	Candidat
Rule#2						
Rule Name	е	Passport_	No_Val_Rule	Active	1	
Error Con	dition Formula		EX(Passport_No Noc ,"^[a-z A-Z]*\$'		D*?){20}")),(F	REGEX(
Error Mes	sage	SHOULD	PORT NO NOT CONTAIN ANY CHARACTERS	Error Locati	on Passport	No

3)On 'Student' Object:

Rule#1



	Rule Name	Registered_Strength_Rule	Active	1
	Error Condition Formula	Course_r.Course_Intake_St Course_r.Registered_Stren	WY 10.00.	
Rule#3	Error Message	The seats for the selected Course is filled. Please selection another course.	Error Location t	Top of Page

Search Layouts for the Candidate Enquiry Object:

ction	Layout	Columns Displayed
dit	Search Results	Candidate Enquiry No
dit	Lookup Dialogs	Candidate Enquiry No, Candidate Name, Guardian, Guardian Name, Date Of Birth, Educational Qualification Year of Pass, Passed out Organization
dit	Lookup Phone Dialogs	Candidate Enquiry No, Father's Mobile No, Mobile No
chit	Candidate Enquiries Tab	Candidate Enquiry No, Candidate Name, Guardian, Guardian Name, Date Of Birth, Educational Qualification Year of Pass, Passed out Organization
dit	Candidate Enquiries List View	N/A
dit		N/A

Search Layouts for the Student Objecct:

earch	n Layouts	
Action	Layout	Columns Displayed
Edit	Search Results	Student Name, Guardian Name, Educational Qualification, Year of Pass, Mobile No, Interested Course1 Created Date
Edit	Lookup Dialogs	Student Name, Guardian Name, Educational Qualification, Year of Pass, Mobile No, Interested Course1 Created Date
Edit	Lookup Phone Dialogs	Student Name, Guardian Name, Educational Qualification, Year of Pass, Mobile No, Interested Course1 Created Date
Edit	Students Tab	Student Name, Guardian Name, Educational Qualification, Year of Pass, Mobile No, Interested Course1 Created Date
Edit	Students List View	N/A
Edit	Search Filter Fields	Student Name, Guardian Name, Educational Qualification, Year of Pass, Mobile No, Interested Course1 Created Date

Search Layouts for the Course Objecct:

Action	Layout	Columns Displayed
Edit	Search Results	Course Id, Course Name, Faculty, Course Starting Date, Course Closing Date, Course Timings, Course Duration Course Intake Strength, Registered Strength
Edit	Lookup Dialogs	Course Id, Course Name, Faculty, Course Timings, Course Starting Date, Course Closing Date, Course Duration Course Intake Strength
Edit	Lookup Phone Dialogs	Course Id, Course Name, Faculty, Course Starting Date, Course Closing Date, Course Duration, Course Intake Strength, Course Timings, Registered Strength
Edit	Courses Tab	Course Id, Course Name, Faculty, Course Timings, Course Starting Date, Course Closing Date, Course Duration Course Intake Strength
Edit	Courses List View	N/A
Edit	Search Filter Fields	Course Id, Course Name, Faculty, Course Starting Date, Course Closing Date, Course Duration, Course Intake Strength, Course Timings, Contact Person

Search Layouts for the Lab Objecct:

	1 Layouts	
Action	Layout	Columns Displayed
Edit	Search Results	Lab No., Course, Student Name, Date, Attendance, Faculty Name, System No., In-Time, Out-Time
Edit	Lookup Dialogs	Lab No., Course, Student Name, Date, Attendance, Faculty Name, System No., In-Time, Out-Time
Edit	Lookup Phone Dialogs	Lab No., Course, Student Name, Date, Attendance, Faculty Name, System No., In-Time, Out-Time
Edit	Labs Tab	Lab No., Course, Student Name, Date, Attendance, Faculty Name, System No., In-Time, Out-Time
Edit	Labs List View	N/A
Edit	Search Filter Fields	Lab No., Course, Student Name, Date, Attendance, Faculty Name, System No., In-Time, Out-Time

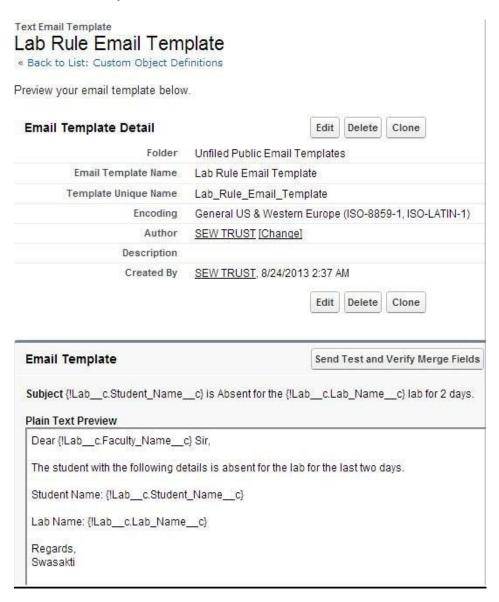
Search Layouts for the Attendance Objecct:

Action	Layout	Columns Displayed
Edit	Search Results	Attendance Id, Student Name, Batch, Attendance
Edit	Lookup Dialogs	Record ID, Attendance Id, Student Name, Batch
Edit	Lookup Phone Dialogs	Attendance Id
Edit	Attendances Tab	Record ID, Attendance Id, Student Name, Batch
Edit	Attendances List View	N/A
Edit	Search Filter Fields	Attendance Id, Student Name, Batch, Attendance

WORK FLOW Rules

1)Sending Email to Faculties when student continuously absent for the lab for two days and when student present:

Email Template:



Workflow Rule:



Updating has to perform on this workflow with the condition(Last Modified >2).

-----DEVELOPMENT PART------

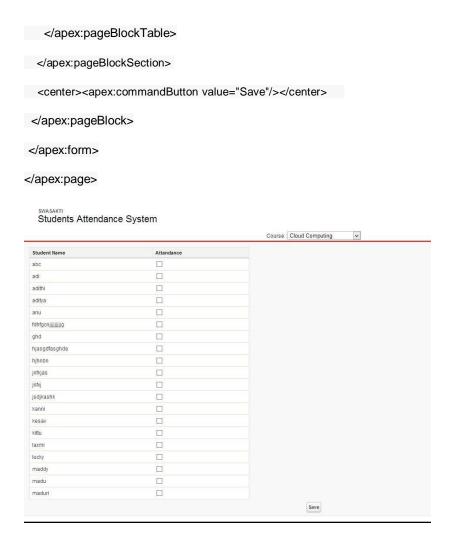
<u>APEXTRIGGER FOR SENDING EMAILs to Candidate Emaillist when</u> <u>a new course is created:</u>

```
trigger newCourseEmail on Course c (after
insert){ list<String> emailid=new list<String>();
list<Candidate_Enquiry_c> address1 =[select Candidate_Name_c, Email_c from Candidate_Enquiry_c];
list<Messaging.SingleEmailMessage> singleEmailMessageList = new List<Messaging.SingleEmailMessage>();
for(Candidate_Enquiry_c c:address1){
if(c.Email__c != null){
      emailid.add(c.Email__c);
}
}
for(Course_c obj: trigger.new){
    Messaging.SingleEmailMessage m=new Messaging.SingleEmailMessage();
m.setToAddresses(emailid);
m.setSubject(obj.Course_Name_c +' is starting');
    m.setPlainTextBody('Dear '+ 'Candidate' +', The following course is starting shortly in our institute.'+
'Course Name: '+ obj.Course_Name_c+
'Course Starting Date :'+obj.Course_Starting_Date_c+
'Course Closing Date: '+obj.Course_Closing_Date__c+
'Course Duration: '+obj.Course_Duration_c+
    'Faculty:'+obj.Faculty_c+
'Regards,Swasakti.');
    singleEmailMessageList.add(m);
}
if(singleEmailMessageList != null && singleEmailMessageList.size() >
    0){ Messaging.sendEmail(singleEmailMessageList);
}
```

}

Developing a Visualforce Page to Access the Students and to Process the Daily Attendance:

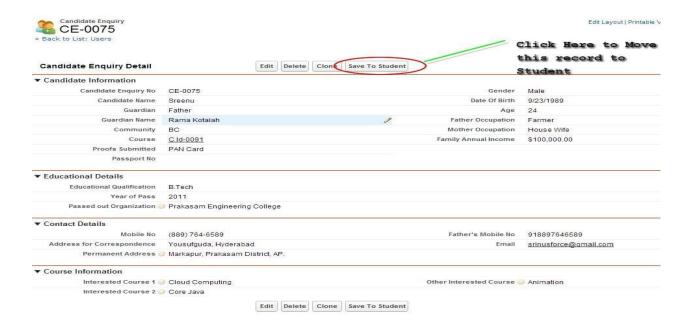
```
<apex:page standardController="Student__c" extensions="xyz" recordSetVar="student"</pre>
tabstyle="Student c" showHeader="false" sidebar="false">
 <apex:sectionHeader title="SWASAKTI" subTitle="Students Attendance"</pre>
 System"/> <apex:form >
 <center>
 <apex:outputLabel >Course :</apex:outputLabel>
 <apex:selectList id="one" size="1">
  <apex:selectOption itemValue="Cloud Computing" itemLabel="Cloud</pre>
  Computing"/> <apex:selectOption itemValue="Core Java" itemLabel="Core
  Java"/> <apex:selectOption itemValue="Tailoring" itemLabel="Tailoring"/>
  <apex:selectOption itemValue="Oracle Financials" itemLabel="Oracle</pre>
  Financials"/> <apex:selectOption itemValue="Oracle ADF" itemLabel="Oracle
  ADF"/> <apex:selectOption itemValue="Oracle DBA" itemLabel="Oracle DBA"/>
  <apex:selectOption itemValue="Spoken English" itemLabel="Spoken English"/>
  <apex:selectOption itemValue="Communication Skills" itemLabel="Communication Skills"/>
  <apex:selectOption itemValue="Personality Development" itemLabel="Personality
  Development"/> <apex:selectOption itemValue="Yoga" itemLabel="Yoga"/>
  <apex:selectOption itemValue="Tally ERP" itemLabel="Tally
 ERP"/> </apex:selectList></center>
 <apex:pageBlock >
 <apex:pageBlockSection >
   <apex:pageBlockTable id="two" value="{!student}" var="a" columnsWidth="50px,50px"
cellpadding="14" border="4">
   <apex:column value="{!a.Name}"/>
<apex:column headerValue="Attandance">
<apex:inputCheckbox value="{!a.Name}">
     <apex:actionSupport event="onClick" action="{!GetSelected}"</pre>
     rerender="Selected_PBS"/> </apex:inputCheckbox>
    </apex:column>
```



Moving a Record from Candidate Enquiry to the Student Object:

For this we have done several steps,

1) Goto Candidate Enquiry list and Click on the record you want to move from Candidate Enquiry to the Student Object, as shown below.



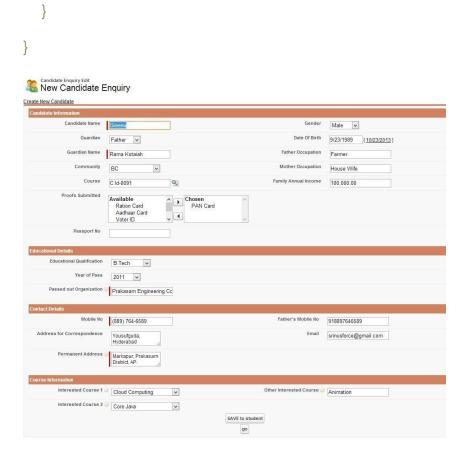
Create a Visualforce Page to Hold this data and Redirect to the Student object,

```
<apex:inputField value="{!Candidate_Enquiry_c.Community_c}"/>
  <apex:inputField value="{!Candidate Enquiry c.Mother Occupation c}"/>
  <apex:inputField value="{!Candidate Enquiry c.Course c}"/> <apex:inputField
  value="{!Candidate_Enquiry_c.Family_Annual_Income_c}"/>
  <apex:inputField value="{!Candidate Enquiry c.Proofs Submitted c}"/><br></br>
  <apex:inputField value="{!Candidate_Enquiry c.Passport_No c}"/>
</apex:pageBlockSection>
<apex:pageBlockSection title="Educational Details" collapsible="false" columns="1">
  <apex:inputField value="{!Candidate_Enquiry c.Educational_Qualification c}"/>
  <apex:inputField value="{!Candidate_Enquiry c.Year_of_Pass c}"/>
  <apex:inputField value="{!Candidate_Enquiry c.Passed_out_Organization c}"/>
</apex:pageBlockSection>
<apex:pageBlockSection title="Contact Details" collapsible="false">
  <apex:inputField value="{!Candidate_Enquiry_c.Mobile_No_c}"/>
  <apex:inputField value="{!Candidate_Enquiry_c.Father_Mobile_No_c}"/>
  <apex:inputField value="{!Candidate_Enquiry c.Address_for_Correspondence c }"/>
  <apex:inputField value="{!Candidate_Enquiry c.Email c}"/>
  <apex:inputField value="{!Candidate_Enquiry c.Permanent_Address c}"/>
</apex:pageBlockSection>
<apex:pageBlockSection title="Course Information" collapsible="false">
  <apex:inputField value="{!Candidate_Enquiry c.Interested_Course_1 c}"/>
  <apex:inputField value="{!Candidate_Enquiry_c.Other_Interested_Course_c}"/>
  <apex:inputField value="{!Candidate_Enquiry_c.Interested_Course_2_c}"/>
</apex:pageBlockSection>
```

```
<center> <apex:commandButton action="{!records}" value="SAVE to student"/> </center>
     <center><apex:commandButton action="{!redirect}"</pre>
value="go" timeout="200"/></center>
  </apex:pageBlock>
 </apex:form>
</apex:page>
Controller:
public class redirect_student
  String recordId;
  public redirect_student() {
  public redirect_student(ApexPages.StandardController controller)
    //recordId = controller.getId();
  }
  public static void records()
   saveRecord();
   PageReference save;
```

```
public static void saveRecord()
  List <Candidate Enquiry c> ce =[select id, Address for Correspondence c, Age c,
   Candidate_Name_c, Community_c, Course_c, Date_Of_Birth_c,
Educational Qualification c,
   Email_c, Employment_Registration_No_c, Employment_Status_c,
Family_Annual_Income c, Father_Mobile_No c,
   Father_Occupation_c, Gender_c, Guardian_c, Guardian_Name_c,
Interested_Course_1 c, Interested_Course_2 c,
   Martial_Status c, Mobile_No c, Mother_Occupation c, Other_Interested_Course c,
Passed_out_Organization_c,
   Passport No_c, Permanent_Address_c, Proofs_Submitted_c, Year_of_Pass_c from
Candidate_Enquiry_c where id=:ApexPages.currentPage().getParameters().get('ID')];
   List<Student_c> stu=new List<Student_c>();
   Student cs;
  for(Candidate_Enquiry_c c : ce)
   s = new Student c(Name=c.Candidate_Name c,
Address_For_Correspondence c=c.Address_for_Correspondence c,
    Community_c=c.Community_c, Course_c=c.Course_c,
Date Of Birth c=c.Date Of Birth c.
    Educational_Qualification_c=c.Educational_Qualification_c, Email_c=c.Email_c,
    Family_Annual_Income_c=c.Family_Annual_Income_c,
Father Mobile No c=c.Father Mobile No c,
    Father_Occupation_c=c.Father_Occupation_c, Gender_c=c.Gender_c,
Guardian_c=c.Guardian_c,
    Guardian_Name_c=c.Guardian_Name_c,
Interested_Course1_c=c.Interested_Course_1_c,
```

```
Permanent_Address_c=c.Permanent_Address_c, Year_of_Pass_c=c.Year_of_Pass_c,
   Passport_No_c=c.Passport_No_c, Proofs_Submitted_c=c.Proofs_Submitted_c,
    Interested_Course_2_c=c.Interested_Course_2_c,
Other_Course_Interested_c=c.Other_Interested_Course_c,
    Mobile_No_c=c.Mobile_No_c, Mother_Occupation_c=c.Mother_Occupation_c,
Passed_Out_Organisation c=c.Passed_out_Organization c);
   stu.add(s);
   database.insert(stu);
   delete ce;
    public PageReference redirect()
      {
     try {
   PageReference customPage = new PageReference
('https://ap1.salesforce.com/a00?fcf=00B90000004OTGB');
      customPage.setRedirect(true);
     // customPage.getParameters().put('id', recordId);
      return customPage;
     catch (DMLException e)
        ApexPages.addMessage(new ApexPages.message(ApexPages.severity.ERROR,
'Error creating new account.'));
        return null:
```



Then, Click on the 'Save To Student' button, after reload the page immediately click on the 'GO' button. Then, the record is moved to the Student object and saved.

The Entire project will cover majorly, three scenarios.

- 1) Moving record from Candidate Enquiry to Student.
- 2) Sending Emails to all Candidates when a new course is created.
- 3) Sending Emails to Faculty when student being absent for the lab for more than 2 days.
- 4) Attendance System.