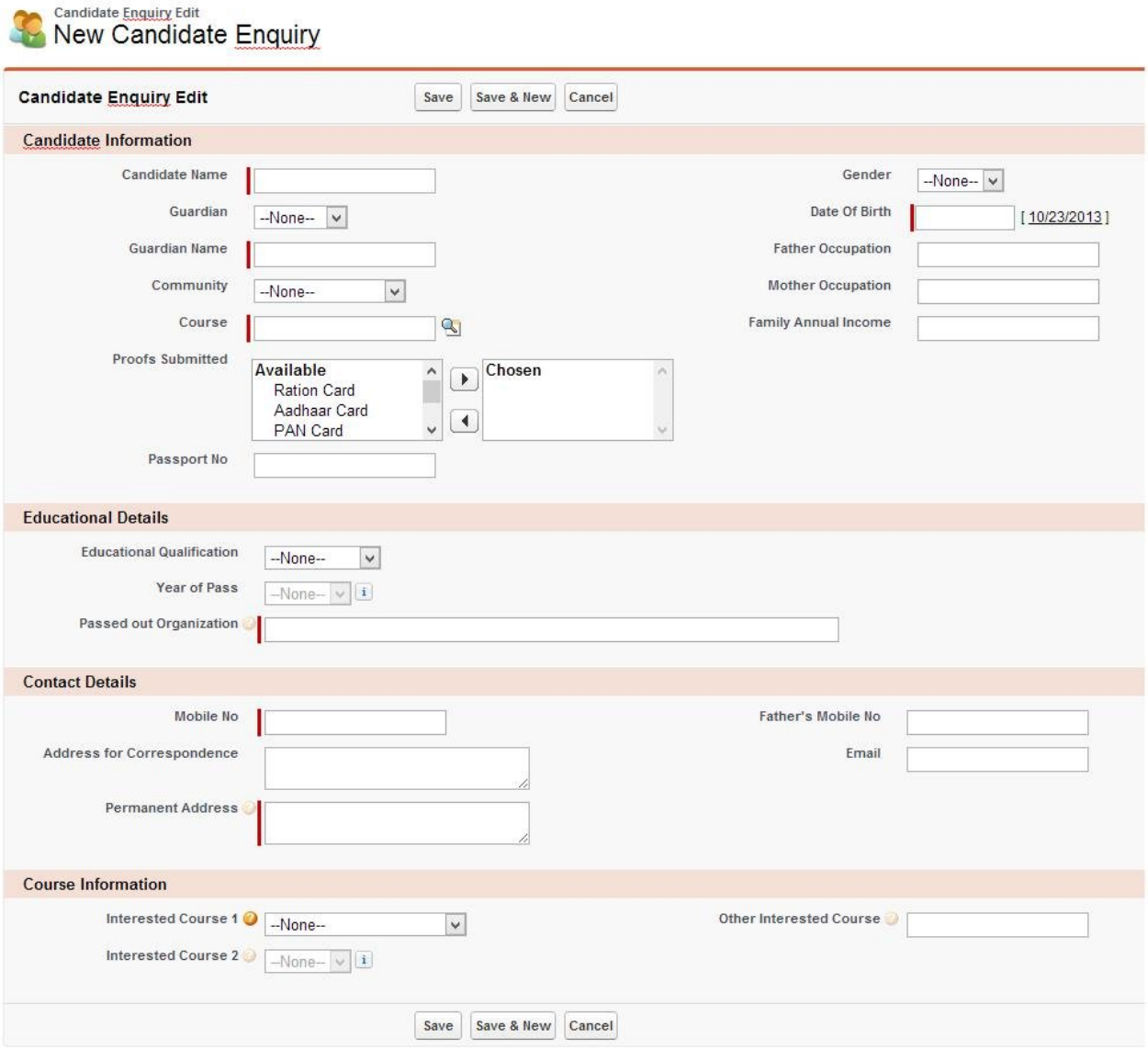
Candidate Enquiry Object:

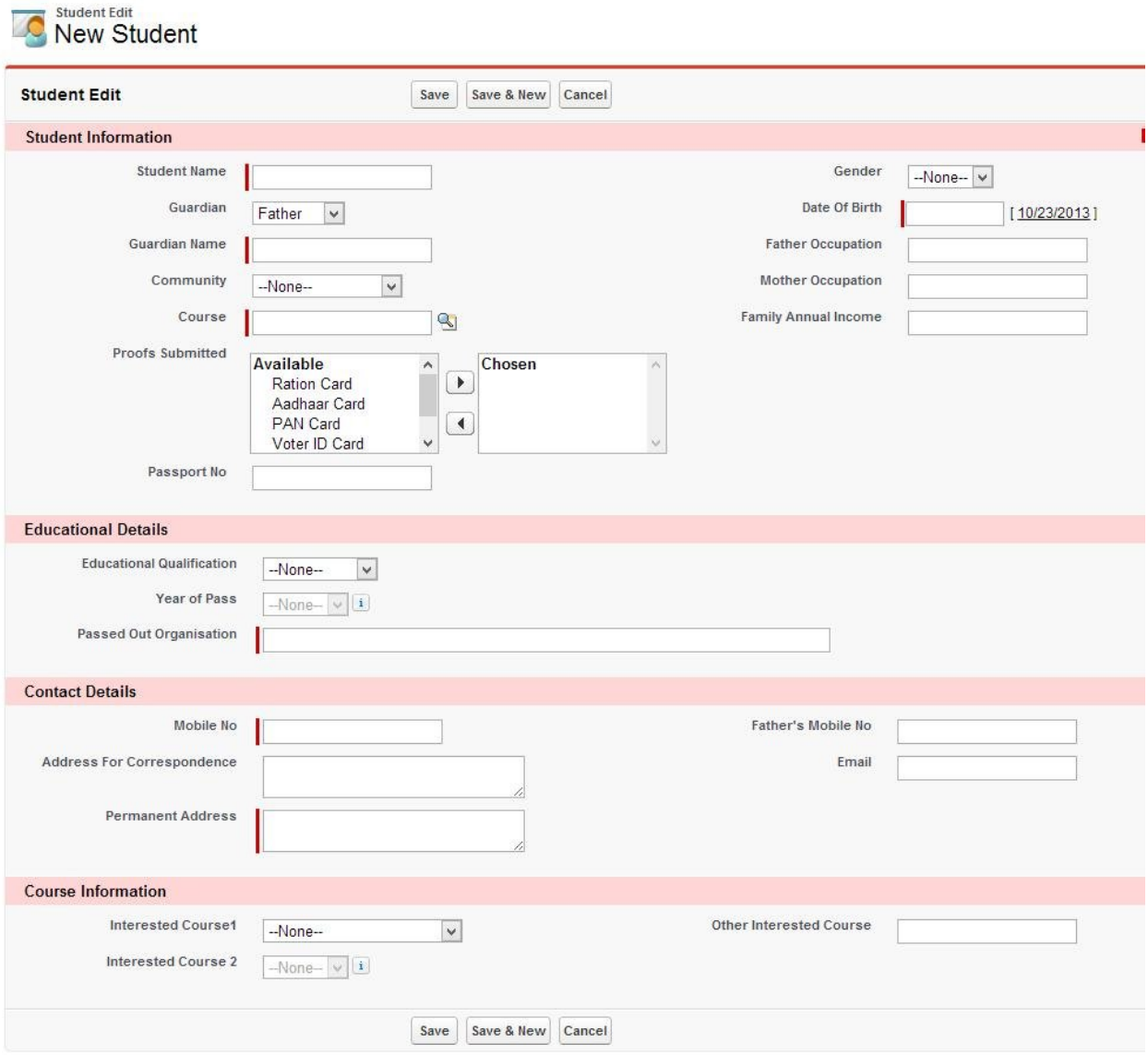


Field Name	*Data Type*	*Value*
Candidate Information Section		
Candidate Enquiry No	Auto Number	CE-{0000}
Candidate Name	Text, Required	80
Guardian	Pick list	Father, Mother, Husband,

		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, Adhaar 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	YEAR(Today())-YEAR(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		
Interested Course 1	Pick list	Core Java, Cloud Computing, Oracle Financials, Oracle ADF, Oracle DBA, Spoken English, Communication Skills, Personality Development, Tailoring, Yoga, Tally ERP
Interested Course 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

Student Object:

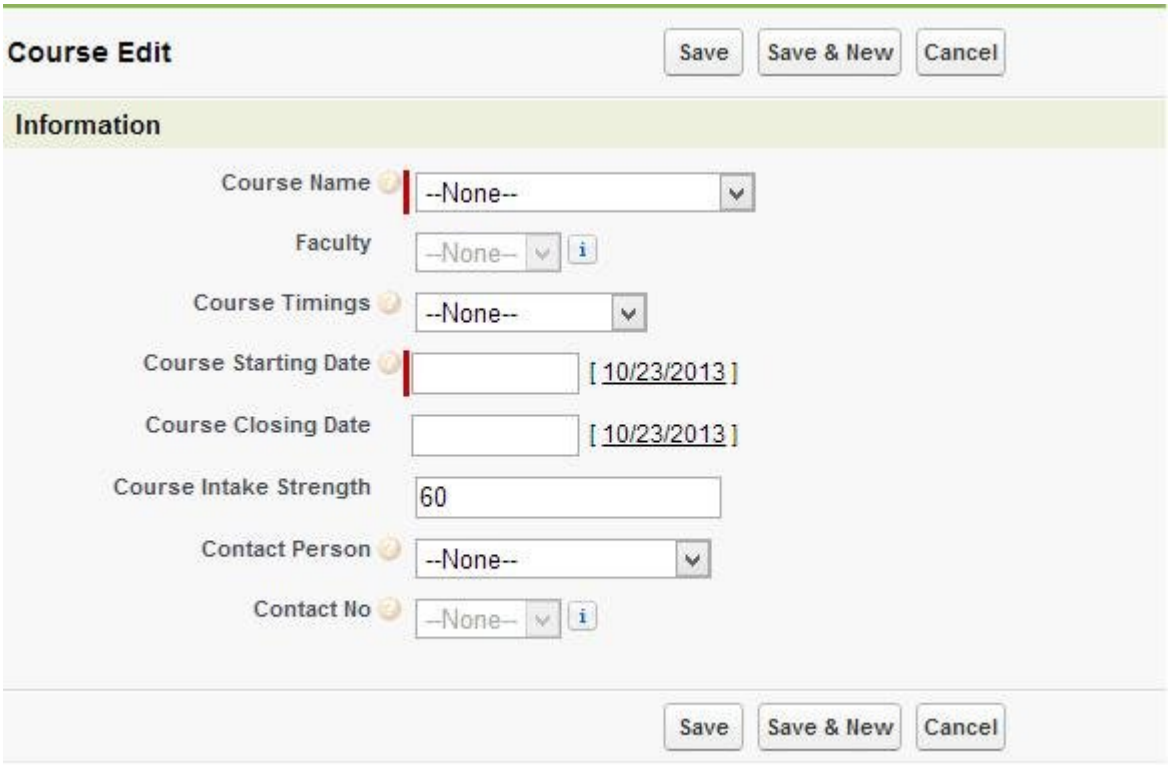


Field Name	*Data Type*	*Value*
Student Information Section		
Student Name	Text, Required	80
Guardian	Pick list	Father, Mother, Husband, Guardian
Guardian Name	Text, Required	80

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		
Interested Course 1	Pick list	Core Java, Cloud Computing, Oracle Financials, Oracle ADF, Oracle DBA, Spoken English, Communication Skills, Personality Development, Tailoring, Yoga, Tally ERP
Interested Course 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

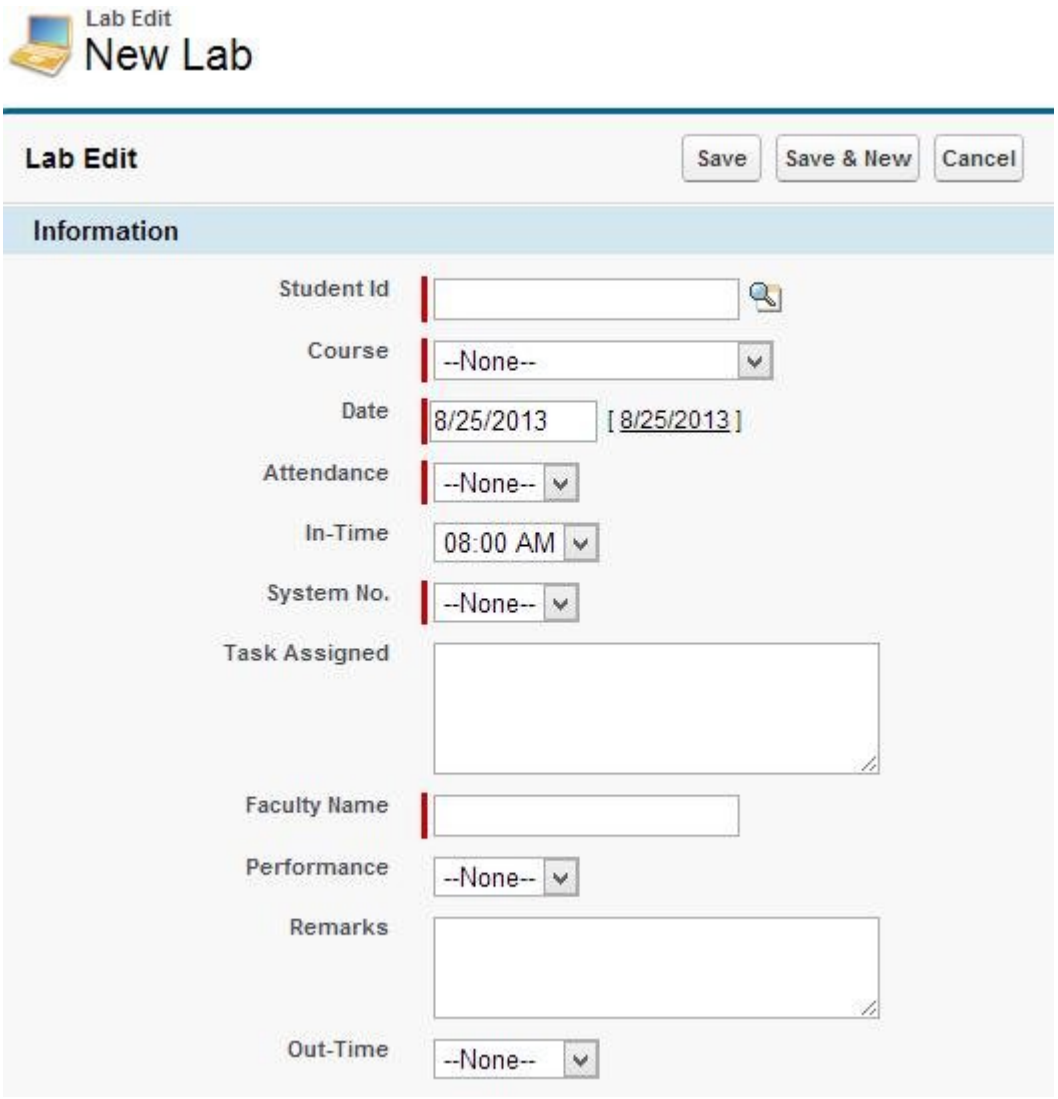
Course – Object:



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 Intake Strength	Number, Default(60)	60
Registered Strength	Rollup Summery(on Student)	--NA--

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

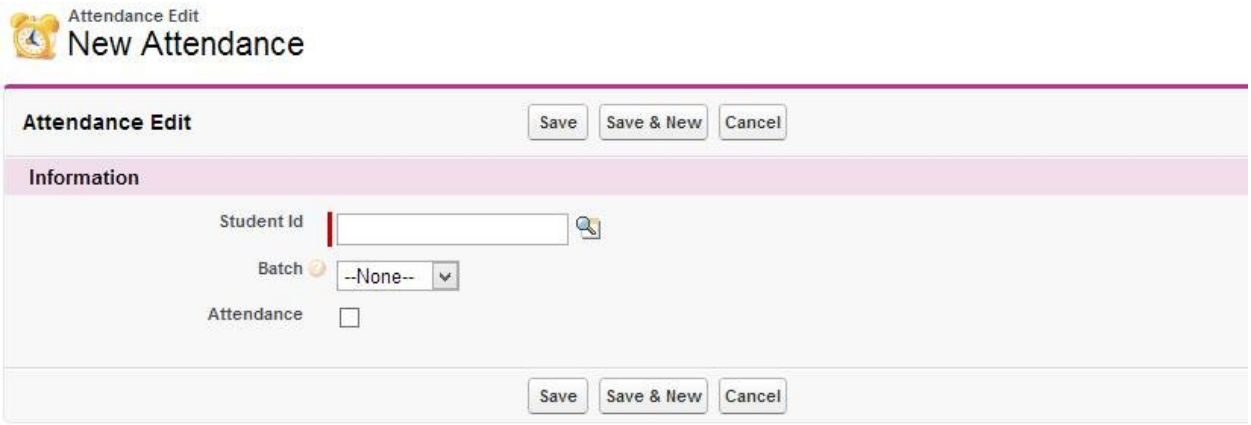
Lab-Object:



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,Batch 2
Attendance	Checkbox	Unchecked

Validations:

1)On ‘Candidate Enquiry’ Object:

Rule#1

Rule Name	Candidate_Mobile_No_Val_Rule	Active	✓
Error Condition Formula	AND(NOT(REGEX(Mobile_No__c , "\\D*?(\\d\\D*?){10}")))		
Error Message	THE MOBILE NUMBER SHOULD NOT CONTAIN ANY CHARACTER PLEASE ENTER VALID MOBILE NO	Error Location	Mobile No

Rule#2

Rule Name	Candidate_Name_Val_Rule	Active	✓
Error Condition Formula	NOT(REGEX(Candidate_Name__c ,"^[a-z A-Z]*$"))		
Error Message	ENTER THE VALID NAME IT SHOULD NOT CONTAIN ANY NUMBERS OR SPECIAL CHARACTERS	Error Location	Candidat

Rule#3

Rule Name	Passport_No_Val_Rule	Active	✓
Error Condition Formula	AND(NOT(REGEX(Passport_No__c , "\\D*?(\\d\\D*?){20}")),(REGEX(Passport_No__c ,"^[a-z A-Z]*$")))		
Error Message	THE PASS PORT NO SHOULD NOT CONTAIN ANY SPECIAL CHARACTERS	Error Location	Passport No

3)On ‘Student’ Object:

Rule#1

Rule Name	Student_name_rule	Active	✓
Error Condition Formula	NOT (REGEX(Student_Name__c , "^[a-z A-Z]*$"))		
Error Message	Candidate name should contain alphabets only.	Error Location	Top of Page

Rule#2

Rule Name	Father_Occupation_Rule	Active	✓
Error Condition Formula	NOT (REGEX(Father_Occupation__c , "^[a-z A-Z]*$"))		
Error Message	Only Alphabets are allowed for "Father Occupation" field.	Error Location	Top of Page

Rule#3

Rule Name	Registered_Strength_Rule	Active	✓
Error Condition Formula	Course__r.Course_Intake_Strength__c < Course__r.Registered_Strength__c		
Error Message	The seats for the selected Course is filled. Please select another course.	Error Location	Top of Page

Search Layouts for the Candidate Enquiry Object:

Search Layouts

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

Search Layouts for the Student Objecct:

Search 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:

Search Layouts

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:

Search 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:

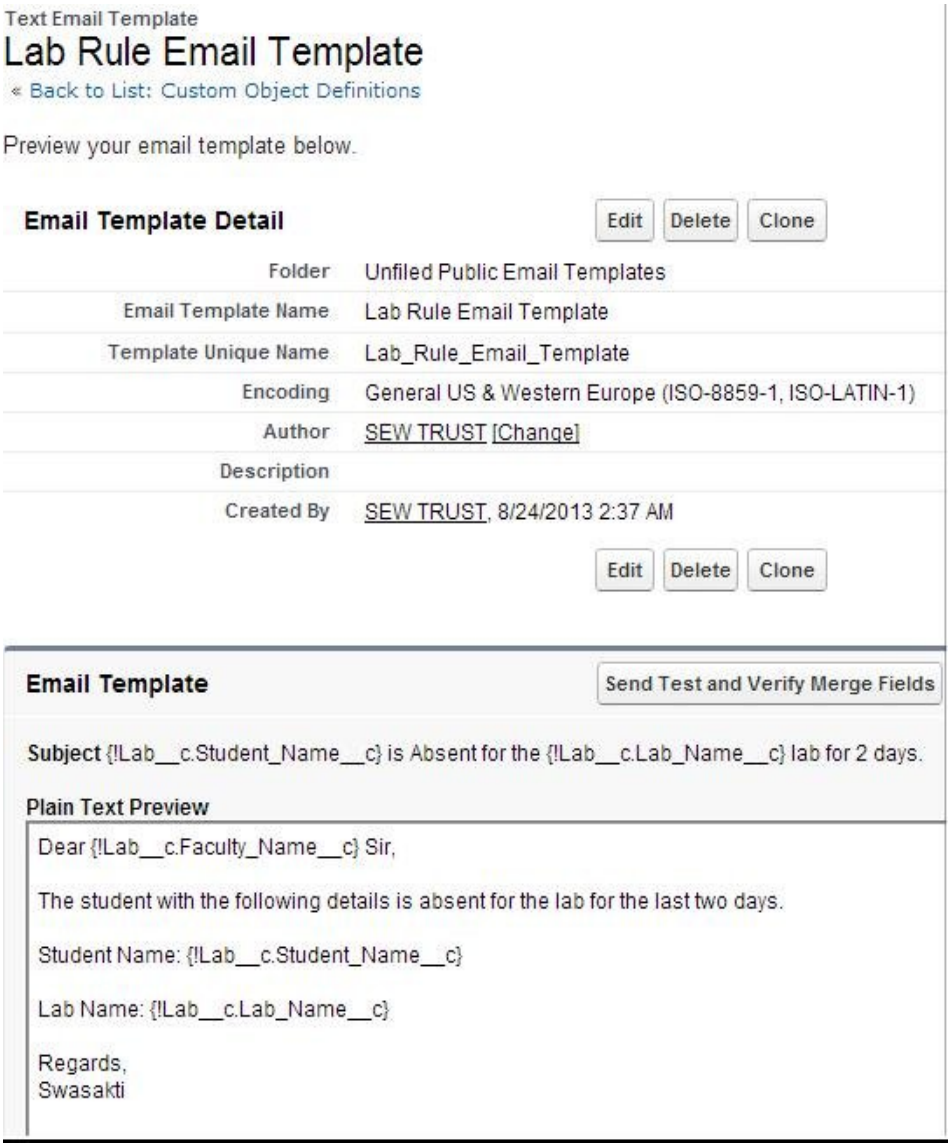
Search Layouts

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:



Text Email Template

Lab Rule Email Template

« Back to List: Custom Object Definitions

Preview your email template below.

Email Template Detail Edit Delete Clone

Folder	Unfiled Public Email Templates
Email Template Name	Lab Rule Email Template
Template Unique Name	Lab_Rule_Email_Template
Encoding	General US & Western Europe (ISO-8859-1, ISO-LATIN-1)
Author	SEW TRUST [Change]
Description	
Created By	SEW TRUST, 8/24/2013 2:37 AM

Edit Delete Clone

Email Template Send Test and Verify Merge Fields

Subject {!Lab__c.Student_Name__c} is Absent for the {!Lab__c.Lab_Name__c} lab for 2 days.

Plain Text Preview

Dear {!Lab__c.Faculty_Name__c} Sir,

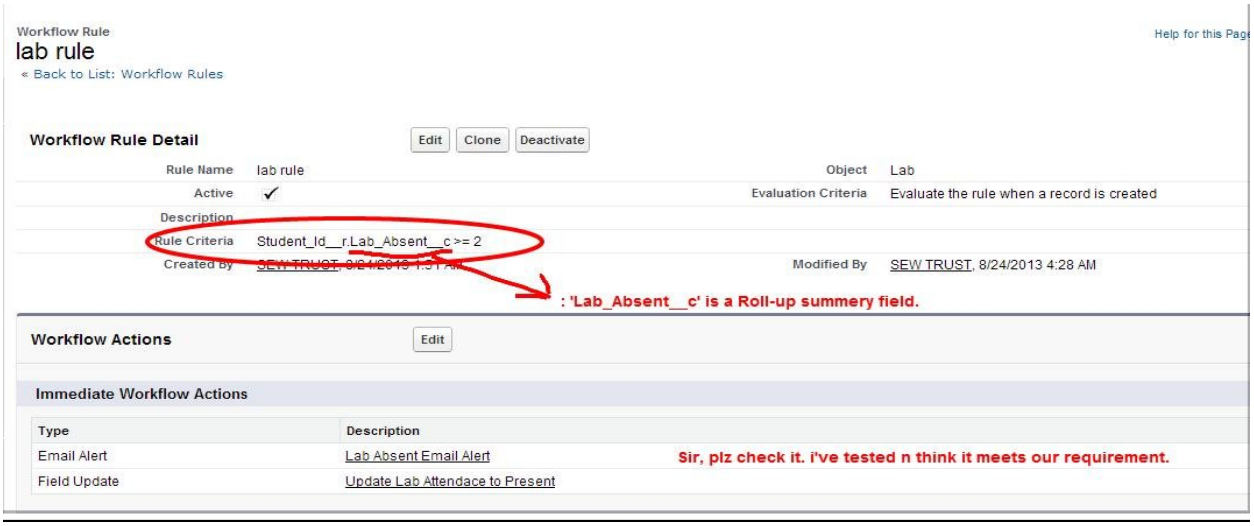
The student with the following details is absent for the lab for the last two days.

Student Name: {!Lab__c.Student_Name__c}

Lab Name: {!Lab__c.Lab_Name__c}

Regards,
Swasakti

Workflow Rule:



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

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

APEX TRIGGER FOR SENDING EMAILs to Candidate Email list when a new course is created:

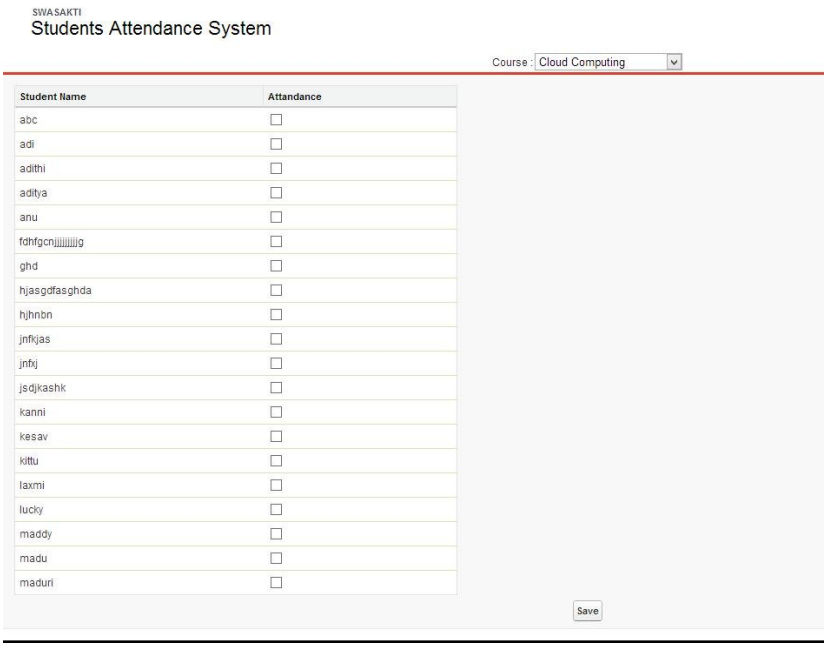
```
trigger newCourseEmail on Course__c (after
    insert){ list<String> emailid=new list<String>();
    list<Candidate_Enquiry__c> address1 =[select Candidate_Name__c, Email__c from Candidate_Enquiry__c];
    list<Messaging.SingleEmailMessage> singleEmailMessageList = new List<Messaging.SingleEmailMessage>();
    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"
tabstyle="Student__c" showHeader="false" sidebar="false">

 <apex:sectionHeader title="SWASAKTI" subTitle="Students Attendance

 System"/> <apex:form >

 <center>

 <apex:outputLabel >Course :</apex:outputLabel>

  <apex:selectList id="one" size="1">

    <apex:selectOption itemValue="Cloud Computing" itemLabel="Cloud

    Computing"/> <apex:selectOption itemValue="Core Java" itemLabel="Core

    Java"/> <apex:selectOption itemValue="Tailoring" itemLabel="Tailoring"/>

    <apex:selectOption itemValue="Oracle Financials" itemLabel="Oracle

    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}"

        rerender="Selected_PBS"/> </apex:inputCheckbox>

       </apex:column>
```

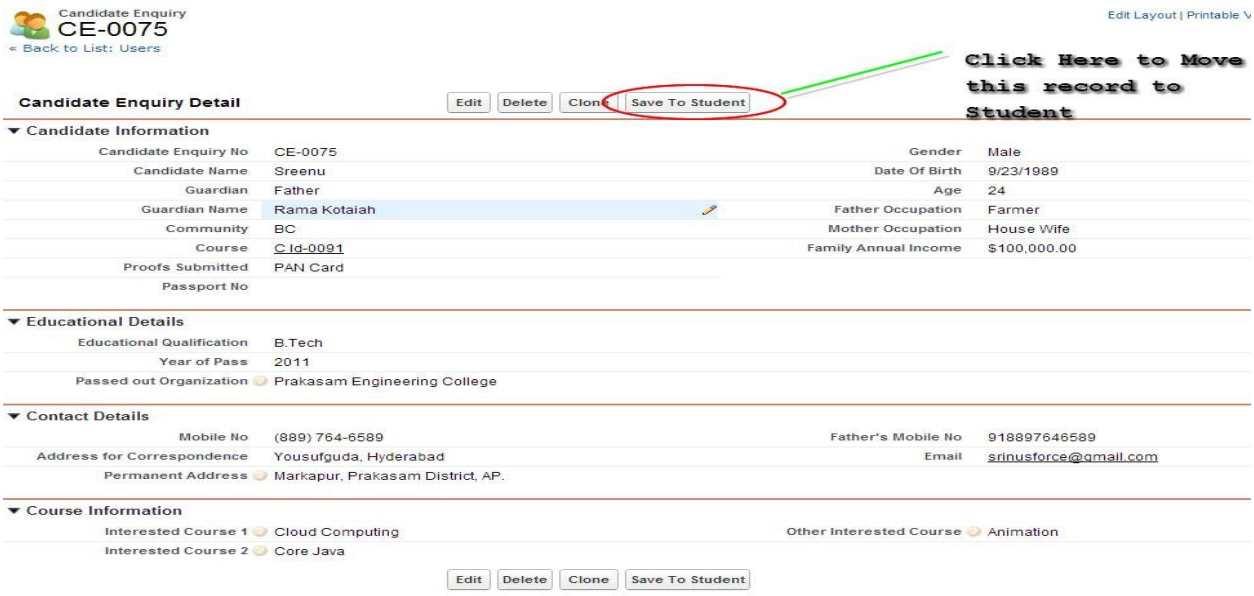
```
    </apex:pageBlockTable>
  </apex:pageBlockSection>
  <center><apex:commandButton value="Save"/></center>
 </apex:pageBlock>
</apex:form>
</apex:page>
```



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:page StandardController="Candidate_Enquiry__c" Extensions="redirect_student">
  <apex:sectionHeader title="Candidate Enquiry Edit" subtitle="New Candidate
  Enquiry"/> <apex:form >
    <apex:outputLink value="{!URLFOR($Action.Candidate_Enquiry__c.New)}">
      <h4>Create New Candidate</h4>
    </apex:outputLink>
    <apex:pageBlock >
      <apex:pageBlockSection title="Candidate Information" collapsible="false">
        <apex:inputField value="{!Candidate_Enquiry__c.Candidate_Name__c}"/>
        <apex:inputField value="{!Candidate_Enquiry__c.Gender__c}"/>
        <apex:inputField value="{!Candidate_Enquiry__c.Guardian__c}"/>
        <apex:inputField value="{!Candidate_Enquiry__c.Date_Of_Birth__c}"/>
        <apex:inputField value="{!Candidate_Enquiry__c.Guardian_Name__c}"/>
        <apex:inputField value="{!Candidate_Enquiry__c.Father_Occupation__c}"/>
```

```
    <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}"
value="go" timeout="200"/></center>


     </apex:pageBlock>

   </apex:form>

</apex:page>
```

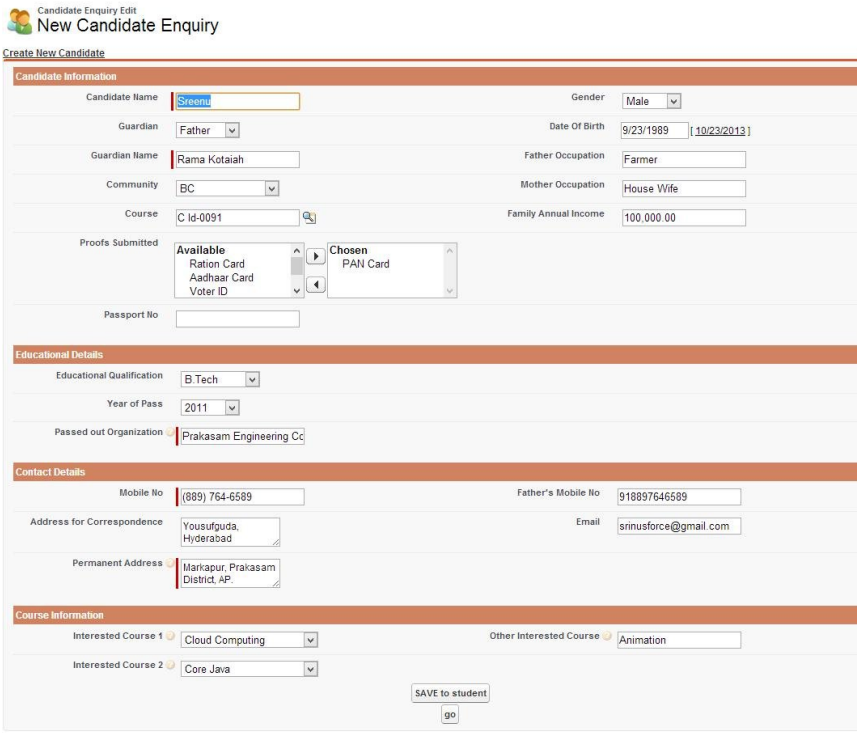
Controller:

```
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__c s;
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.