



Salesforce Project Ready

Entry Level Training & Professional Development
Program

Project Title: Online Training Management



Day 1:

Topic : Brief explaination of Salesforce and CRM, Comparision of Excel data and Salesforce

Milestone / Activities: Difference between Standard Objects and Custom Objects Detailed Description: Salesforce is a Cloud based software company, that gives platform to businesses to relate their Marketing, IT, Sales, Commerce, and Services to their customers. Salesforce has web based Software. Salesforce Integrated into many catagories to improve their business. Now a days salesforce is using on Facebook, LinkedIn, youtube etc.



It is a No 1 CRM platform, i.e, Customer Relationship Management which makes direct interaction between customer and business by apps. Here customers can make direct marketing by given platform and also track customers marketing strategy.

Application: In salesforce we can create number of application by using many platform like Lightning Components, Apex, VisualForce. By comparing this to Excel we say that application is workbook.

Object: It organises the data in application. Salesforce already given database that includes few Objects and fields that helps customers/clients to run better those objects are called Standard Objects, and which we create by requirements are called Custom Objects.

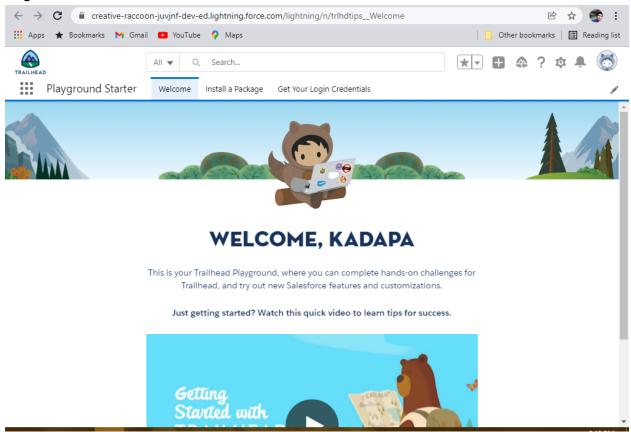
Salesforce Developer Edition can be created by two ways

They are:

- i) Trailhead
- ii) salesforce web site

Milestone Activities Screenshot:

Login to the salesforce



Day 2:

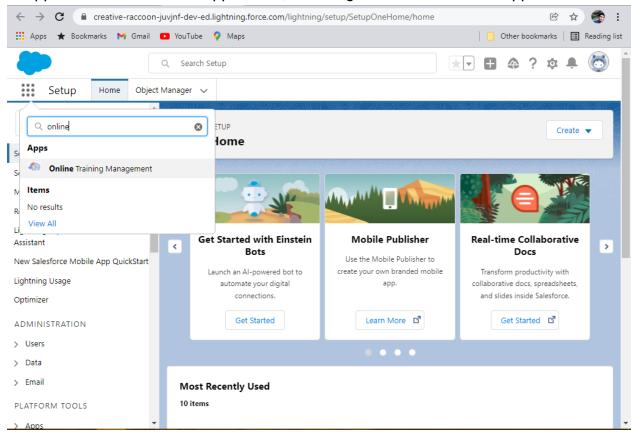
Topic: Creating Application, Objects, Fields, and Validation rules

Milestone / Activities: Created validation rules

Detailed Description: Project aim is to create App for "Online Training Management".

This app is created by Lightning App. In available tabs, add Home tab.

In App launcher we find our application, following is the screenshot of app



Create custom Objects either using Schema Builder or Custom Object. The following custom objects are created for the Online training Management are

i) Courses

Rename Record Name : Course ID

Data type : Auto NumberDisplay Format : C-{000000}

Starting Number: 1

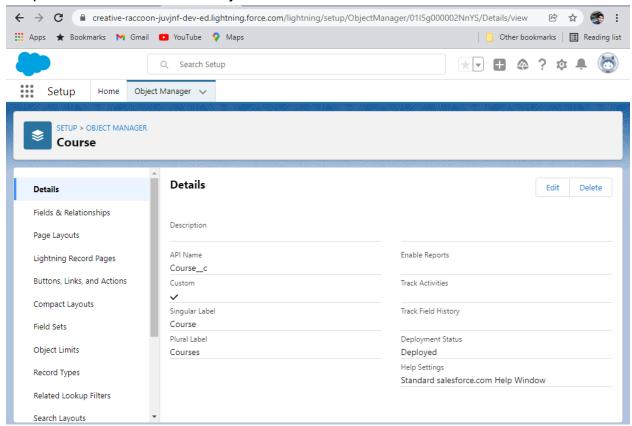
Deployment status : Deployed

Allow Search : Access

Add Notes and Attachment : Selected

• Add to Navigation Tab: Selected

Snapshot of Course Custom Object:



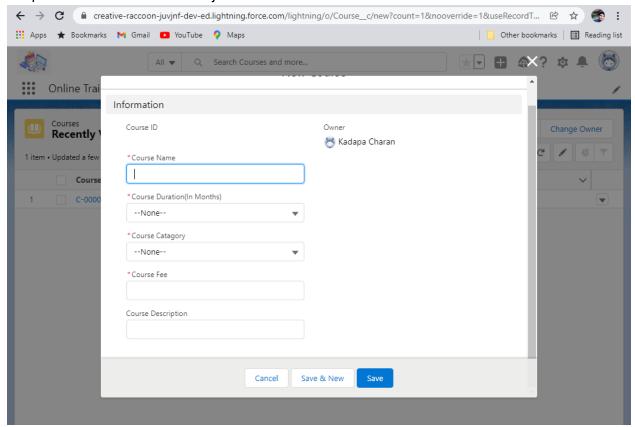
Custom Course Object Custom Fields are

- Course Name as label and with datatype Text.
- Course Duration(In Months) as label with datatype picklist by entering values are(1,2,3,4,5,6)
- Course Catagory as Label with picklist datatype and values are (Cloud Computing, Data Management, Cyber Security)
- Course Fee as label with Currency datatype with length(5,4).
- Course Description as label with Text datatype and length(50)

Validation Rules for Course Object is

Course Fee should not be negative value and should be less than \$3000.

Snapshot of Course Custom Object Custom Fields:



ii) Trainer

• Rename Record Name: Trainer ID

Data type : Auto NumberDisplay Format : T-{000000}

Starting Number: 1

Deployment status : Deployed

Allow Search : Access

Add Notes and Attachment : Selected

Add to Navigation Tab : Selected

Trainer Object Custom Fields are

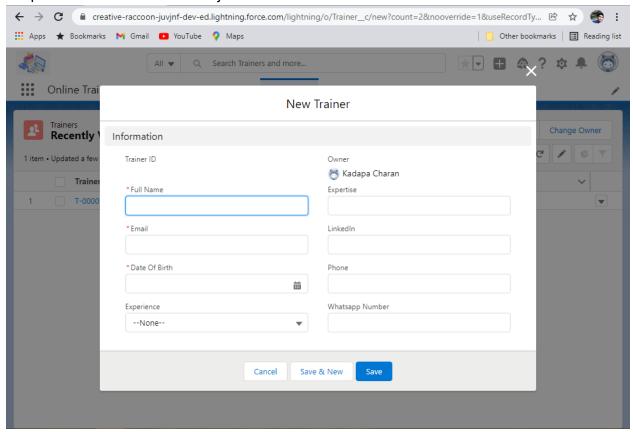
- Full Name as label with Text datatype conatins length(25).
- Email as both label and datatype and it should not take duplicate mails.
- Mobile as label with Phone datatype with length(13).
- Whatsapp as label with Phone datatype with length(13).
- Date of Birth as label with date datatype.
- Age as label using formula as datatype and return type as Number.
- Experience as label using picklist datatype and values are(0,1,2,3,4)
- LinkedIn Profile as label using URL datatype.

Expertise as label using text datatype.

Validation Rules for Trainer Object are

- Mobile and Whatsapp should be minimum of 10 digits and maximum of 15 digits.
- Full Name, Phone, Date of Birth cannot be empty.
- Trainer age cannot be less than 25 years.

Snapshot of Trainers Custom Object and its Fields:



iii) Students

Rename Record Name: Student ID

Data type : Auto Number

• Display Format : S-{000000}

Starting Number: 1

• Deployment status : Deployed

Allow Search : Access

Add Notes and Attachment : Selected

Add to Navigation Tab : Selected

Custom Fields for this Object are

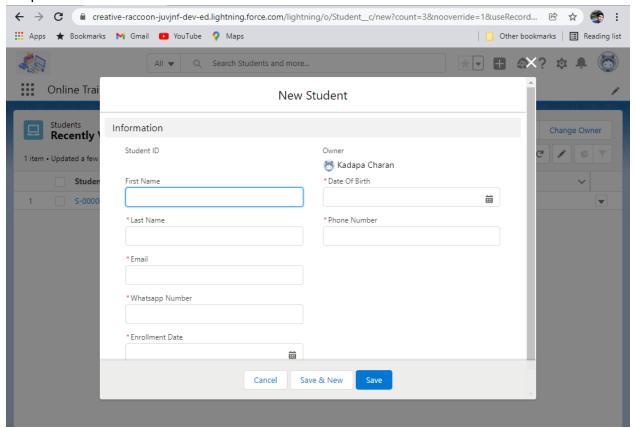
- First Name as label with Text datatype conatins length(25).
- Last Name as label with Text datatype conatins length(25).

- Email as both label and datatype and it should not take duplicate mails.
- Mobile as label with Phone datatype with length(13).
- Whatsapp as label with Phone datatype with length(13).
- Date of Birth as label with date datatype.
- Enrollment Date as label using Auto Generated(date) and it shoul be locked/read only field.

Validation rules for Student Object are

- Mobile and Whatsapp should be minimum of 10 digits and maximum of 15 digits.
- Last Name, Phone, Date of Birth cannot be empty.
- Trainer age cannot be less than 16 years

Snapshot of Student Customa and its Fields:



iv) Meetings

Rename Record Name : Meeting ID

Data type : Auto NumberDisplay Format : S-{000000}

Starting Number: 1

• Deployment status : Deployed

Allow Search : Access

- Add Notes and Attachment : Selected
- Add to Navigation Tab : Selected

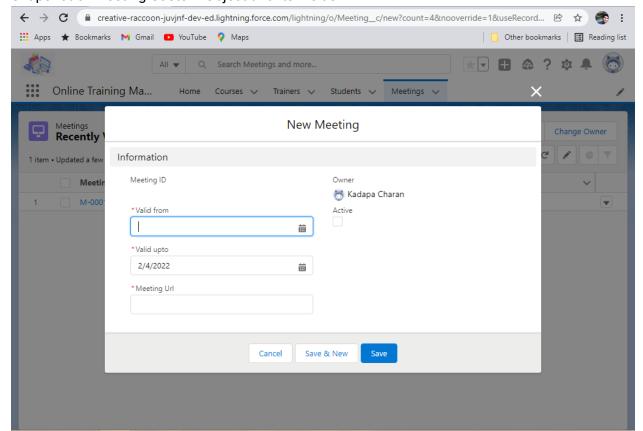
Custom fields for this Object are

- Valid from and valid to as label using date datatype.
- Active as label with checkbox datatype to find whether the meeting is active or not.
- Meeting Url as label with URL datatype to login to the session.

Validation rules:

- Valid from date should be less than Current date.
- Valid To date should be less than valid from.

Snapshot of Meeting Custom Object and its Fields:



Day 3:

Topics: Relationship fields and Validation Rules

Milestone/Activities:

Relationship Fields:

1) Lookup Relationship:

We can say this as One to many fashion. We can create upto 40 fields in an object. It is not a mandatory, if we delete parent field it does not affect to child field.

2) Master-Detail Relationship:

In this field, It allows the parent record to control child record attributes such as sharing and visibility. It is always required field. If we delete parent field automatically child field will be deleted.

iv) Batch Scheduling:

Rename Record Name: Batch Scheduling ID

• Data type : Auto Number

• Display Format : BE-{000000}

Starting Number : 1

• Deployment status : Deployed

• Allow Search : Access

Add Notes and Attachment : Selected

Add to Navigation Tab : Selected

Custom Fields for this Object are

- Batch ID as label with Autonumber datatype.
- Batch Type as label with Picklist datatype values contains Weekend/Weekday.
- Add lookup fields Course ID to Course, meeting ID to meeting, Trainer ID to Trainer.
- Add two Fields with datatype Date that Start Date and End Date.

v) Course-Trainer Object

Rename Record Name : Course-Trainer ID

• Data type : Auto Number

• Display Format : CT-{000000}

Starting Number: 1

Deployment status : Deployed

Allow Search : Access

Custom Fields for Course Trainer Object

- Add a Master-Detail Relationships for Trainer and Course with label Trainer ID and Course ID.
- Label as Course-Trainer ID by Auto Number datatype.
- Use Formula datatype to display Course Name and Trainer Name.

vi) Student Enrollment Object

• Rename Record Name: Student Enrollment ID

• Data type : Auto Number

• Display Format : SE-{000000}

Starting Number: 1

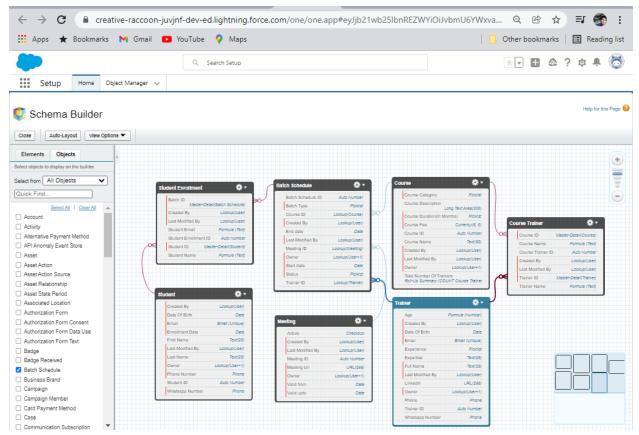
Deployment status : Deployed

Allow Search : Access

Custom Fields are

- Add a Master-Detail Relationship with Batch Schedule and Student and label it as Batch ID and Student ID.
- Label as Student Enrollment ID b Auto Number datatype.
- Use formula datatype to display Student Email and Student Name.

Milestone/Activities screenshot:



Day 4:

Topic: Automations

Milestone/Activities: To reduce the admin efforts salesforce introduces automations which helps to stop doing repitative tasks. Automations are triggered and executed when the user requirement should be true. This automation works on back end.

Automations are 6 types

The following are GUI based Automation

- 1) Workflow
- 2) Process Builder
- 3) Approval Process
- 4) Flow Automation

The following are Code based Automations

- 5) Trigger
- 6) Apex Schedules

1) Workflow

This works with business logic to automate activities based on some business criteria. When the conditions are true, the automated activity gets executed. Workflow allows you to set various actions based on events or conditions. The actions that can be set include updating a field, creating a task, triggering an email and more. Actions can be triggered based on time of day even.

2) Process builder Automation

Process Builder is an automated Salesforce tool that allows you to control the order of actions or evaluate the criteria for a record. It is a flow Process. Process Builder gives you the ability to use straightforward 'If/Then' logic. In this we can update field, send an email alert, create a record by scheduled time event.

3) Approval Process

Approval Process in salesforce is used for approve records. Records sumbitted by this user which also called Approver, In Approval Process contains several actions to approve the records, they are

- i) Initial Submission action: It occurs when user first submit the records for approval. It runs automatically. This includes Field update, Email Alert, tasks, and bound messages.
- ii) Final Approval action: It occurs when a record approved from all the approval steps.

This includes Field update, Email Alert, tasks, and bound messages.

- iii) Final Rejection action: It occurs when a record rejected by any approval step. This includes Field update, Email Alert, tasks, and bound messages.
- iv) Recall action: It occurs when a record recalled after submission for approval. This includes Field update, Email Alert, tasks, and bound messages.

4) Flows

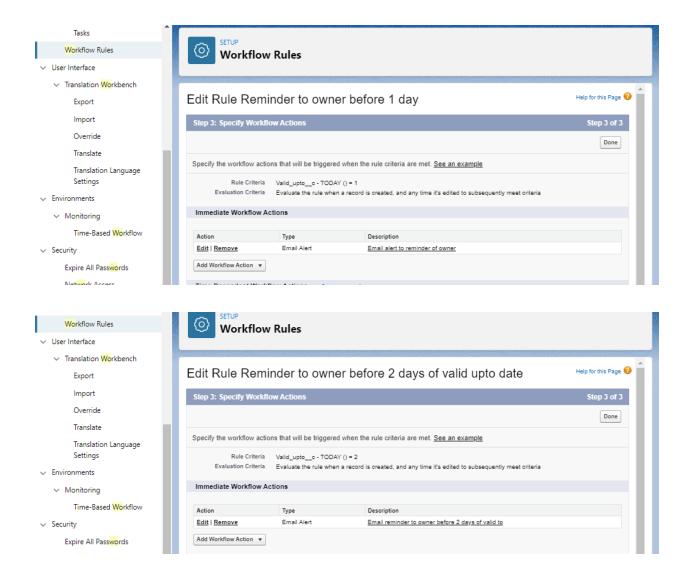
It allows us to build complex business automation by building applications, instead using code. Flows execute logic by call Apex classes. It collects data and perform actions.

Requirement for project:

- --> After 1 day of validity of meeting, The Active checkbox automatically be Uncheck using workflow rules.
- -->Setting reminder email to meeting owner that 1 day before the valid to date using workflow rule.
- --> Sending an email to the batch schedule owner 2 days before the valid to date using workflow rule.

Snapshots fo Milestone/Activities:





Day 5:

Topic: Custom Page creation using VisualForce

Milestone/activities: Page Creation using VisualForce

Visualforce:

Visualforce page is a web pages. These are created by unique tag based Mark-up language. It just like HTML, it's use is to access, display and update the organization's data. This will be accessed by URL link.

Visualforce pages can created by using two ways.

One way--> Go to Developer console--> New--> visualforce page.

Second way--> Setup--> Quick find box--> visualforce pages--> New.

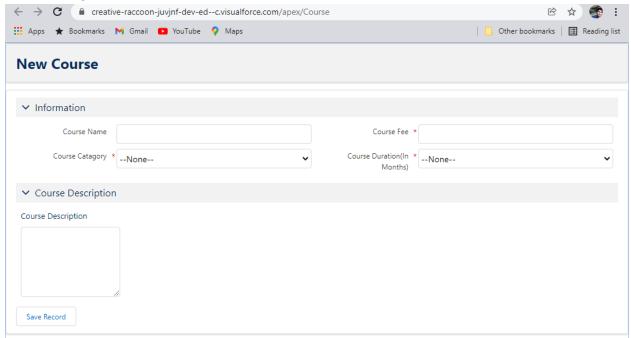
Requirement for Project:

--> Create Course and Trainer pages using Custom Controller.

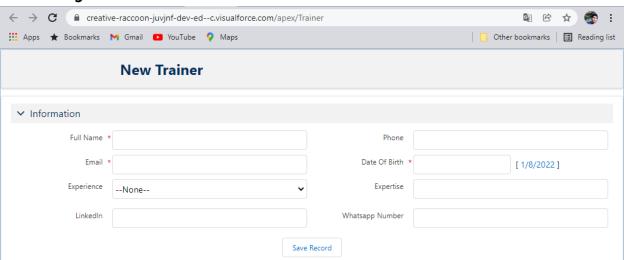
--> Create Student, Meeting and Batch Schedule pages using Standard Controller.

Snapshots of Milestone/ Activities:

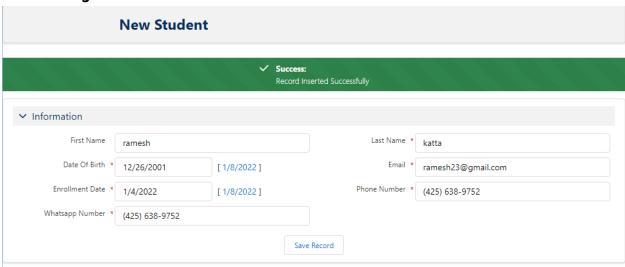
Course Page



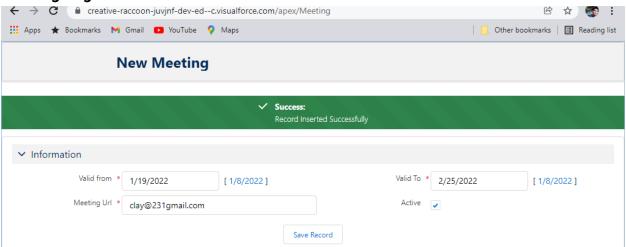
Trainer Page



Student Page



Meeting Page



Batch Schedule Page

