

Title : Design and develop custom Application (Mini Project) using Salesforce Cloud.

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Roll No. : - CO3056

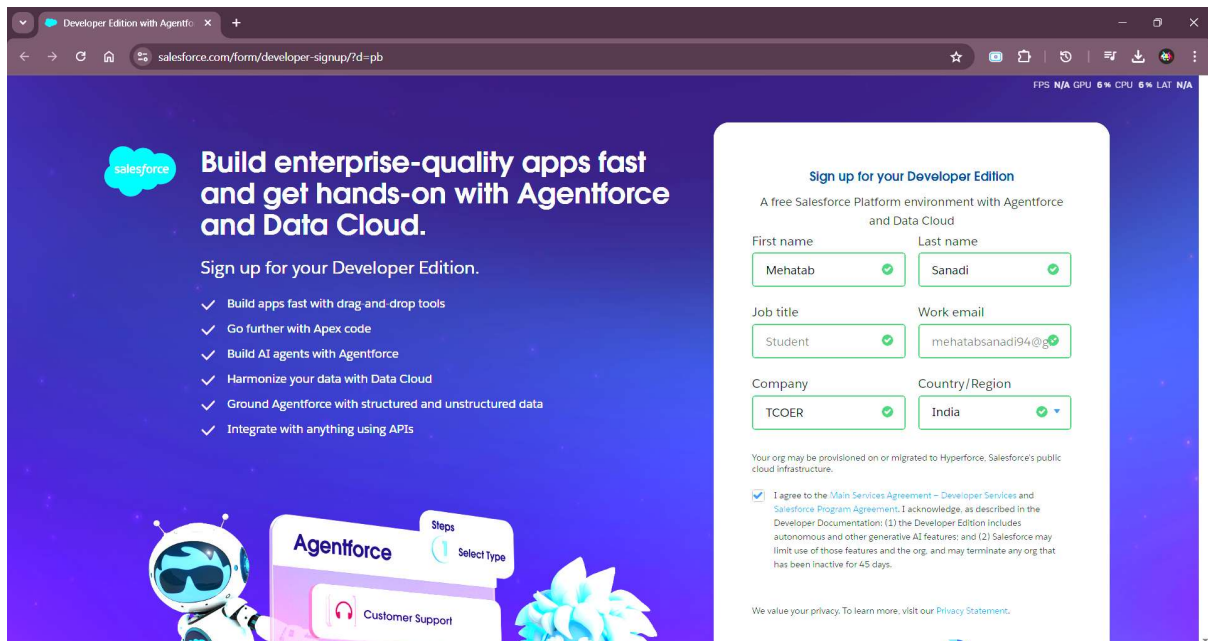
Class : - TE Computer

Subject : - Cloud Computing

Date : -

Step 1 : Create new org:

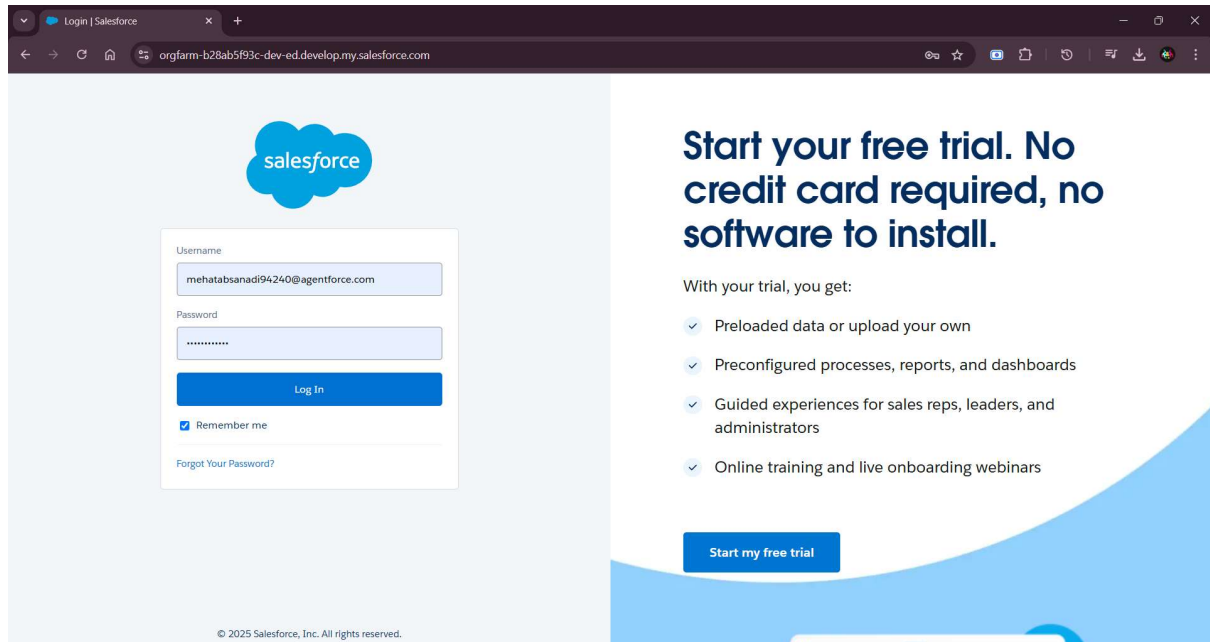
<https://developer.salesforce.com/signup>



Step 2 : After signup, logging using following URL

<https://login.salesforce.com/>

Step 3 : Login Page (Enter your credential to login)



The image shows the Salesforce login page in a web browser. The browser's address bar displays the URL: `orgfarm-b28ab5f93c-dev-ed.develop.my.salesforce.com`. The page features the Salesforce logo at the top left. Below it is a login form with fields for "Username" (containing `mehatabsanadi94240@agentforce.com`) and "Password" (masked with dots). A "Log In" button is positioned below the password field. There is a checkbox for "Remember me" and a link for "Forgot Your Password?". To the right of the login form, a large heading reads "Start your free trial. No credit card required, no software to install." Below this heading, a list of benefits for the trial is provided, each preceded by a checkmark: "Preloaded data or upload your own", "Preconfigured processes, reports, and dashboards", "Guided experiences for sales reps, leaders, and administrators", and "Online training and live onboarding webinars". A "Start my free trial" button is located at the bottom of this section. The footer of the page states "© 2025 Salesforce, Inc. All rights reserved."

Username
mehatabsanadi94240@agentforce.com

Password
.....

Log In

☒ Remember me

[Forgot Your Password?](#)

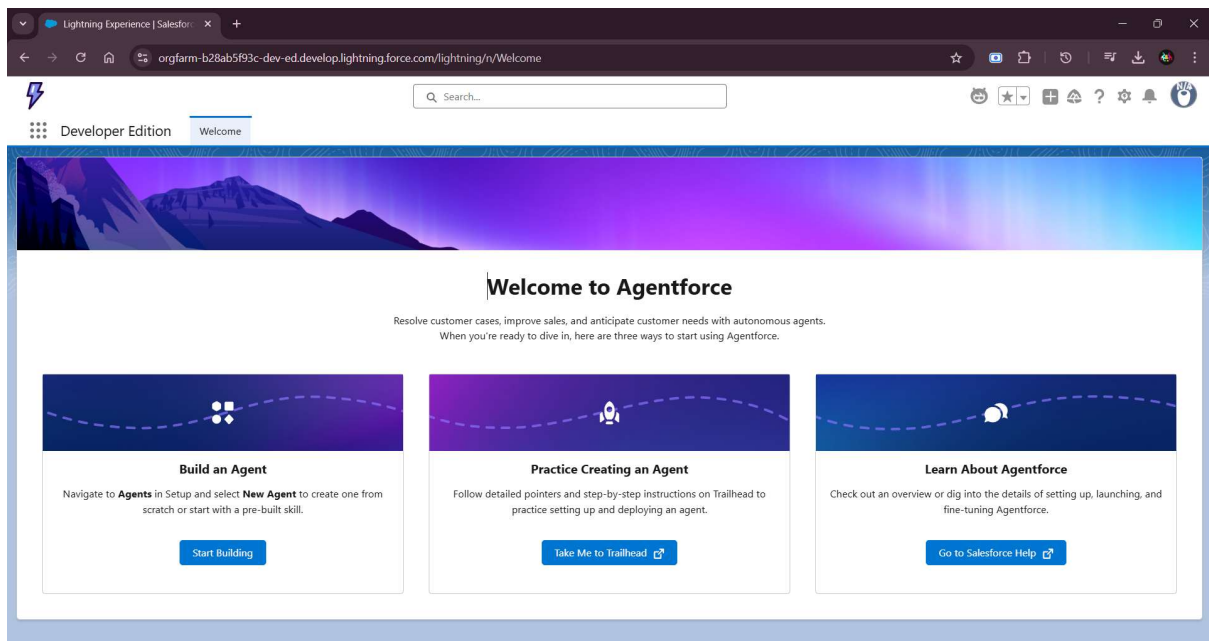
Start your free trial. No credit card required, no software to install.

With your trial, you get:

- ✓ Preloaded data or upload your own
- ✓ Preconfigured processes, reports, and dashboards
- ✓ Guided experiences for sales reps, leaders, and administrators
- ✓ Online training and live onboarding webinars

Start my free trial

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The image shows the Salesforce Lightning Experience "Welcome to Agentforce" page. The browser's address bar displays the URL: `orgfarm-b28ab5f93c-dev-ed.develop.lightning.force.com/lightning/n/Welcome`. The page has a header with a search bar and navigation tabs for "Developer Edition" and "Welcome". The main content area features a large banner with a mountain landscape. Below the banner, the heading "Welcome to Agentforce" is displayed, followed by the text: "Resolve customer cases, improve sales, and anticipate customer needs with autonomous agents. When you're ready to dive in, here are three ways to start using Agentforce." Three cards are presented below: "Build an Agent" (with a "Start Building" button), "Practice Creating an Agent" (with a "Take Me to Trailhead" button), and "Learn About Agentforce" (with a "Go to Salesforce Help" button).

Lightning Experience | Salesforce

orgfarm-b28ab5f93c-dev-ed.develop.lightning.force.com/lightning/n/Welcome

Developer Edition Welcome

Search...

Welcome to Agentforce

Resolve customer cases, improve sales, and anticipate customer needs with autonomous agents. When you're ready to dive in, here are three ways to start using Agentforce.

Build an Agent

Navigate to **Agents** in Setup and select **New Agent** to create one from scratch or start with a pre-built skill.

Start Building

Practice Creating an Agent

Follow detailed pointers and step-by-step instructions on Trailhead to practice setting up and deploying an agent.

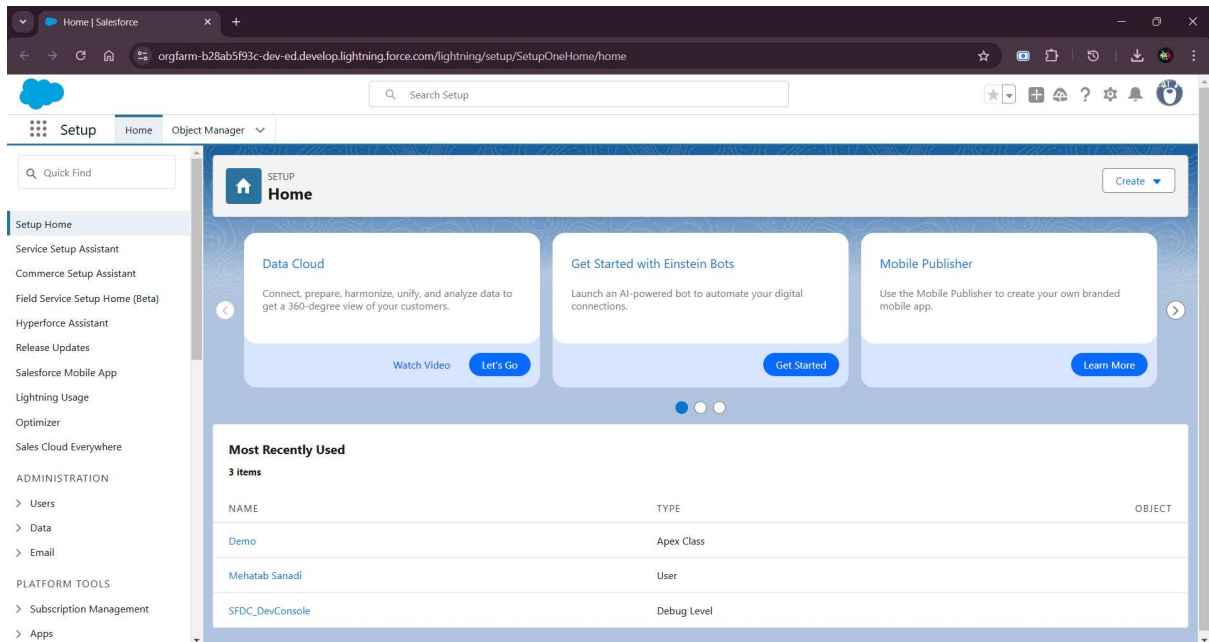
Take Me to Trailhead

Learn About Agentforce

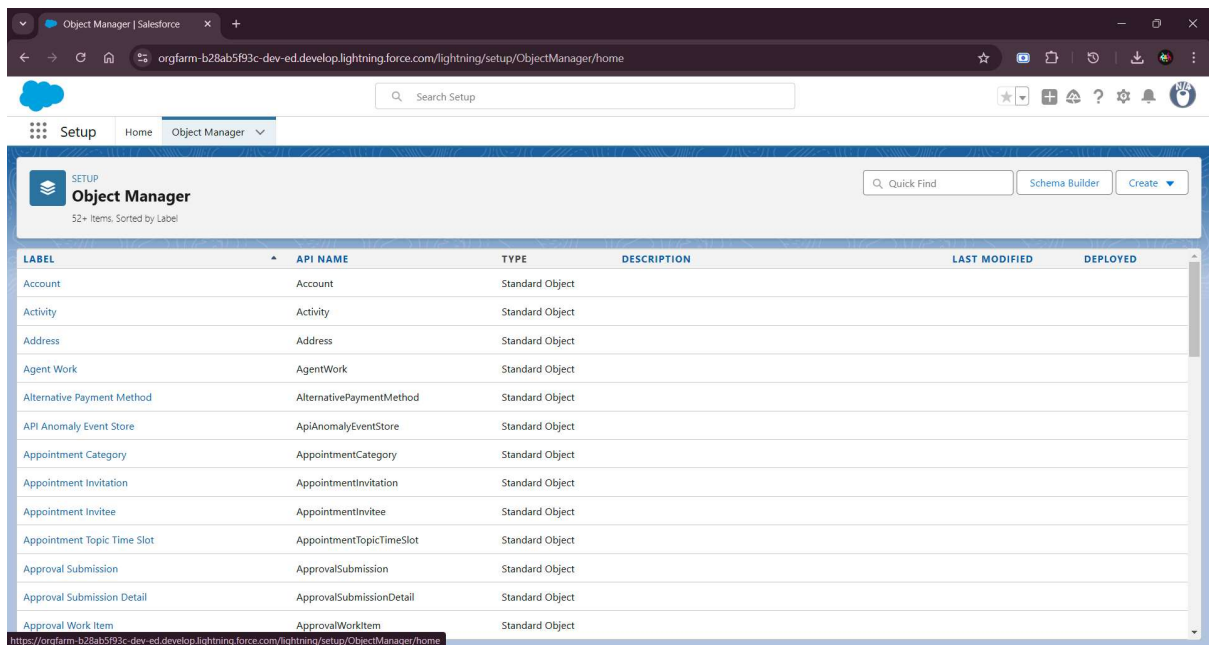
Check out an overview or dig into the details of setting up, launching, and fine-tuning Agentforce.

Go to Salesforce Help

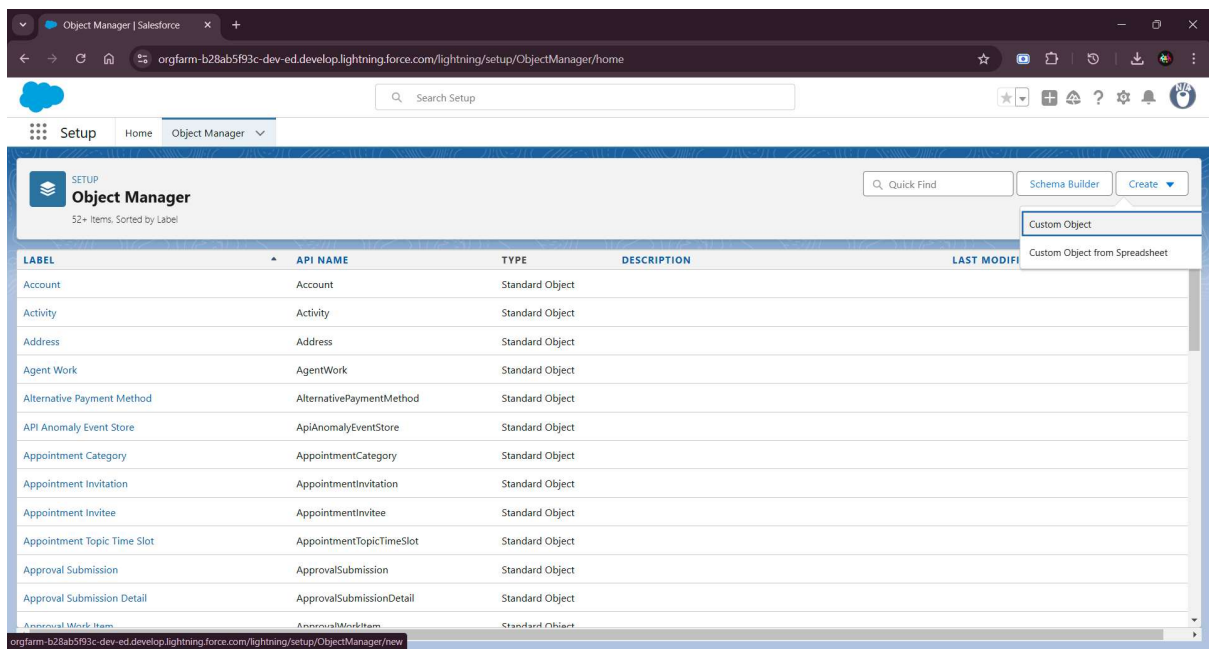
Step 3a : Open salesforce in Lightning Experience



Step 3b : Click on Object Manager



Step 3c : Click on Create → Custom Object

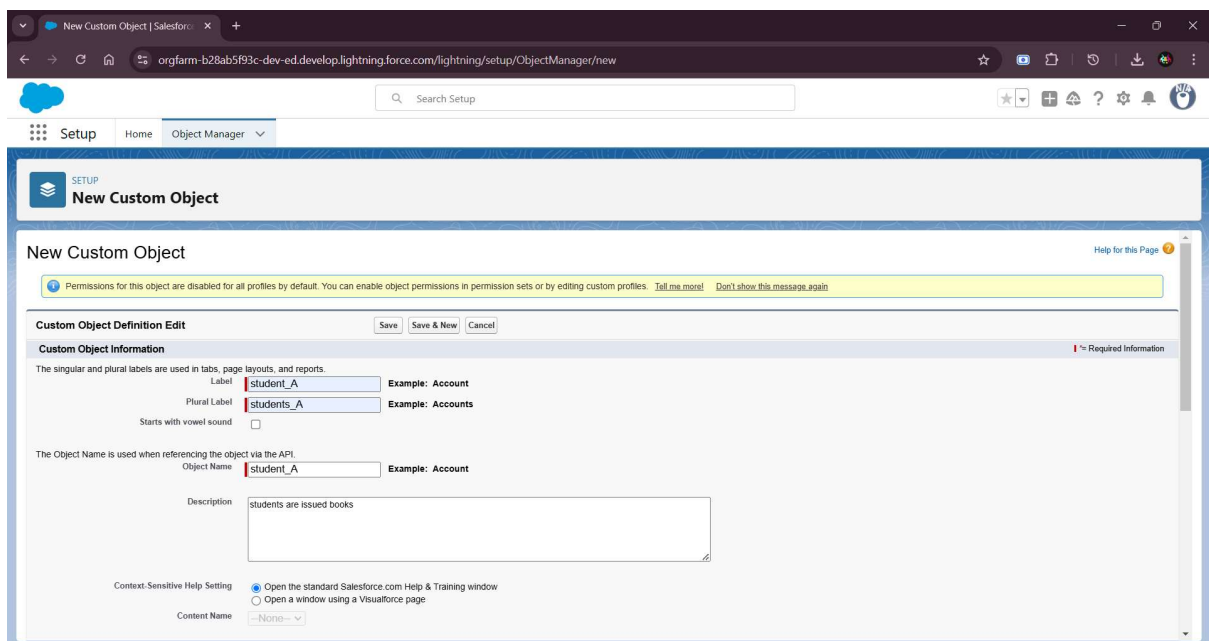


The screenshot shows the Salesforce Object Manager interface. The top navigation bar includes 'Setup', 'Home', and 'Object Manager'. The main header displays 'Object Manager' with a 'Quick Find' search bar and buttons for 'Schema Builder' and 'Create'. A dropdown menu is open under the 'Create' button, showing 'Custom Object' and 'Custom Object from Spreadsheet'. Below this is a table listing standard objects:

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED
Account	Account	Standard Object		
Activity	Activity	Standard Object		
Address	Address	Standard Object		
Agent Work	AgentWork	Standard Object		
Alternative Payment Method	AlternativePaymentMethod	Standard Object		
API Anomaly Event Store	ApiAnomalyEventStore	Standard Object		
Appointment Category	AppointmentCategory	Standard Object		
Appointment Invitation	AppointmentInvitation	Standard Object		
Appointment Invitee	AppointmentInvitee	Standard Object		
Appointment Topic Time Slot	AppointmentTopicTimeSlot	Standard Object		
Approval Submission	ApprovalSubmission	Standard Object		
Approval Submission Detail	ApprovalSubmissionDetail	Standard Object		
Approval Workflow Item	ApprovalWorkflowItem	Standard Object		

Step 3d : Create new Custom objects

here named student_A and books



The screenshot shows the 'New Custom Object' setup page in Salesforce. The page title is 'New Custom Object'. A message at the top states: 'Permissions for this object are disabled for all profiles by default. You can enable object permissions in permission sets or by editing custom profiles. [Tail me more!](#) [Don't show this message again](#)'. Below this is the 'Custom Object Definition Edit' section with the following fields:

- Custom Object Information**
 - The singular and plural labels are used in tabs, page layouts, and reports.
 - Label: Example: Account
 - Plural Label: Example: Accounts
 - Starts with vowel sound: ☐
 - The Object Name is used when referencing the object via the API.
 - Object Name: Example: Account
 - Description:
 - Context-Sensitive Help Setting:
 - ☒ Open the standard Salesforce.com Help & Training window
 - ☐ Open a window using a Visualforce page
 - Content Name:

Step 3e : Go to Field and Relationships field of these objects and create new Relational fields

For book → Author name(20) and Publisher(30)

For student_A → class(10)

The screenshot shows the 'New Custom Field' wizard for the 'Book' object. The 'Field Label' is 'Author Name' and the 'Field Name' is 'Author_Name'. The 'Length' is set to 20. The 'Description' is 'we can add author name'. The 'Required' checkbox is checked. The 'Unique' checkbox is unchecked. The 'External ID' checkbox is unchecked. The 'Auto add to custom report type' checkbox is checked.

Step 2. Enter the details

Field Label: Author Name

Length: 20

Field Name: Author_Name

Description: we can add author name

Help Text:

Required: ☒ Always require a value in this field in order to save a record

Unique: ☐ Do not allow duplicate values

External ID: ☐ Set this field as the unique record identifier from an external system

Auto add to custom report type: ☒ Add this field to existing custom report types that contain this entity

The screenshot shows the 'Fields & Relationships' page for the 'student_A' object. The table lists 5 fields, sorted by Field Label. The fields are: Class, Created By, Last Modified By, Owner, and student_A Name. The 'Class' field is a Text(10) field. The 'Created By' and 'Last Modified By' fields are Lookup(User) fields. The 'Owner' field is a Lookup(User,Group) field. The 'student_A Name' field is a Text(80) field.

Fields & Relationships

5 Items, Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Class	Class_c	Text(10)		
Created By	CreatedBy	Lookup(User)		
Last Modified By	LastModifiedBy	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
student_A Name	Name	Text(80)		✓

Book | Salesforce

orgfarm-b28ab5f93c-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgK000000HN53/FieldsAndRelationships/view

Setup Home Object Manager

SETUP > OBJECT MANAGER
Book

Details

Fields & Relationships

Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Restriction Rules
Scoping Rules
Object Access
Triggers

Fields & Relationships
6 Items, Sorted by Field Label

Q Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Author Name	Author_Name__c	Text(20)		
Book Name	Name	Text(80)		✓
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Publisher	Publisher__c	Text(30)		

Step 3f : Create new Custom Tags for application

Tabs | Salesforce

orgfarm-b28ab5f93c-dev-ed.develop.lightning.force.com/lightning/setup/CustomTabs/page?address=%2Fsetup%2Fu%2Fcustomtabs.jsp%3Fsetupid%3DCusto...

Setup Home Object Manager

Q tab

Feature Settings

- Analytics
- Tableau
 - Tableau Embedding
- Decision Tables

User Interface

- Console Settings
 - Loaded Console Tab Limit
 - Rename Tabs and Labels
 - Tabs**

Didn't find what you're looking for?
Try using Global Search.

SETUP
Tabs

Custom Tabs

You can create new custom tabs to extend Salesforce functionality or to build new application functionality.

Custom Object tabs look and behave like the standard tabs provided with Salesforce. Web tabs allow you to embed external web applications and content within the Salesforce window. Visualforce tabs allow you to embed Visualforce pages. Lightning Component tabs allow you to add Lightning components to the navigation menu in Lightning Experience and the mobile app.

Custom Object Tabs New What Is This?

Action	Label	Tab Style	Description
Edit Del	books	Books	
Edit Del	students_A	Computer	

Web Tabs New What Is This?

No Web Tabs have been defined

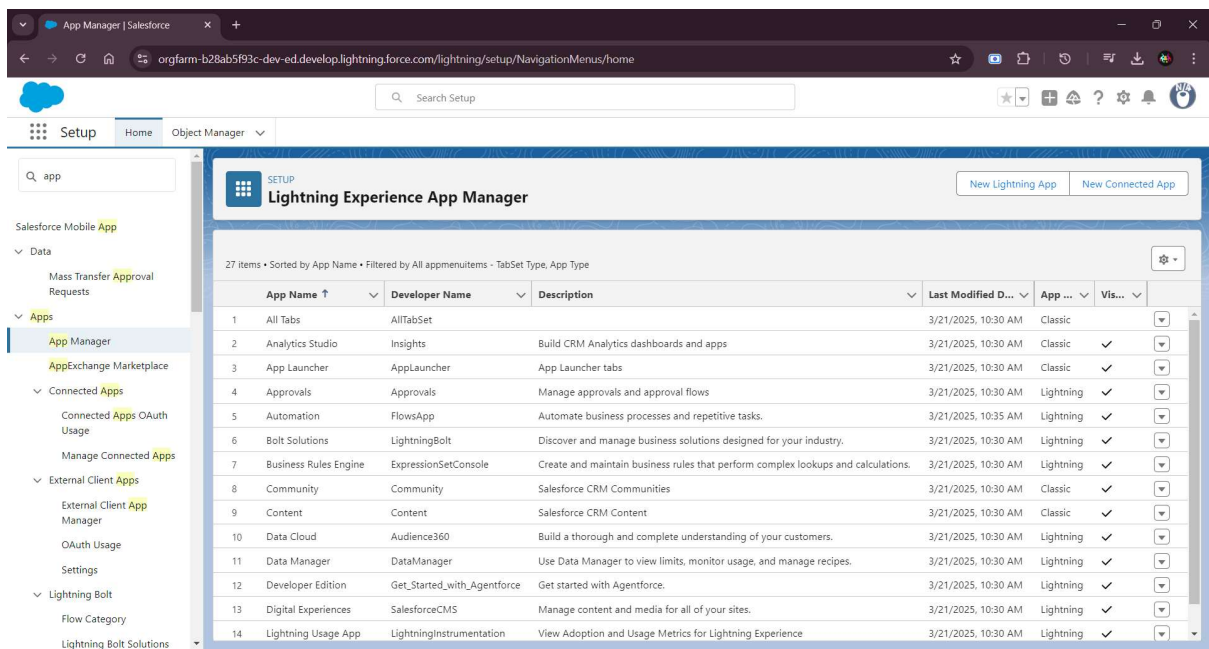
Visualforce Tabs New What Is This?

No Visualforce Tabs have been defined

Lightning Component Tabs New What Is This?

Action	Label	Tab Style	Description
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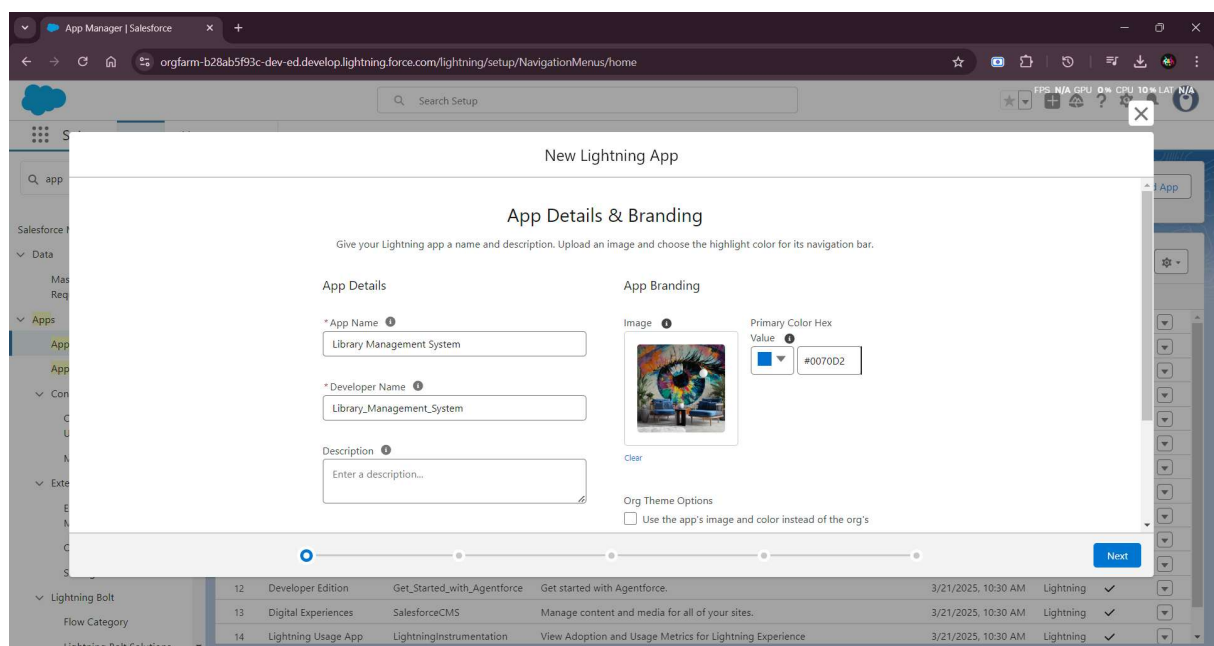
Step 3g : Navigate to App Manager and Click New Lightning App



The screenshot shows the Salesforce App Manager interface. The left sidebar contains a navigation menu with options like Setup, Home, Object Manager, and a search bar. The main area displays a table of 27 items, sorted by App Name. The table has columns for App Name, Developer Name, Description, Last Modified Date, App Type, and Visibility. The table lists various apps including All Tabs, Analytics Studio, App Launcher, Approvals, Automation, Bolt Solutions, Business Rules Engine, Community, Content, Data Cloud, Data Manager, Developer Edition, Digital Experiences, and Lightning Usage App.

App Name	Developer Name	Description	Last Modified D...	App ...	Vis...
1 All Tabs	AllTabSet		3/21/2025, 10:30 AM	Classic	✓
2 Analytics Studio	Insights	Build CRM Analytics dashboards and apps	3/21/2025, 10:30 AM	Classic	✓
3 App Launcher	AppLauncher	App Launcher tabs	3/21/2025, 10:30 AM	Classic	✓
4 Approvals	Approvals	Manage approvals and approval flows	3/21/2025, 10:30 AM	Lightning	✓
5 Automation	FlowsApp	Automate business processes and repetitive tasks.	3/21/2025, 10:35 AM	Lightning	✓
6 Bolt Solutions	LightningBolt	Discover and manage business solutions designed for your industry.	3/21/2025, 10:30 AM	Lightning	✓
7 Business Rules Engine	ExpressionSetConsole	Create and maintain business rules that perform complex lookups and calculations.	3/21/2025, 10:30 AM	Lightning	✓
8 Community	Community	Salesforce CRM Communities	3/21/2025, 10:30 AM	Classic	✓
9 Content	Content	Salesforce CRM Content	3/21/2025, 10:30 AM	Classic	✓
10 Data Cloud	Audience360	Build a thorough and complete understanding of your customers.	3/21/2025, 10:30 AM	Lightning	✓
11 Data Manager	DataManager	Use Data Manager to view limits, monitor usage, and manage recipes.	3/21/2025, 10:30 AM	Lightning	✓
12 Developer Edition	Get_Started_with_Agentforce	Get started with Agentforce.	3/21/2025, 10:30 AM	Lightning	✓
13 Digital Experiences	SalesforceCMS	Manage content and media for all of your sites.	3/21/2025, 10:30 AM	Lightning	✓
14 Lightning Usage App	LightningInstrumentation	View Adoption and Usage Metrics for Lightning Experience	3/21/2025, 10:30 AM	Lightning	✓

Step 3h : Fiend necessary fields and click next till Navigation Items



The screenshot shows the 'New Lightning App' dialog box with the 'App Details & Branding' tab selected. The dialog box contains two main sections: 'App Details' and 'App Branding'. The 'App Details' section has fields for App Name, Developer Name, and Description. The 'App Branding' section has fields for Image, Primary Color Hex Value, and Org Theme Options. The 'App Name' field is filled with 'Library Management System', the 'Developer Name' field is filled with 'Library_Management_System', and the 'Primary Color Hex Value' field is filled with '#0070D2'. The 'Next' button is visible at the bottom right of the dialog box.

App Details

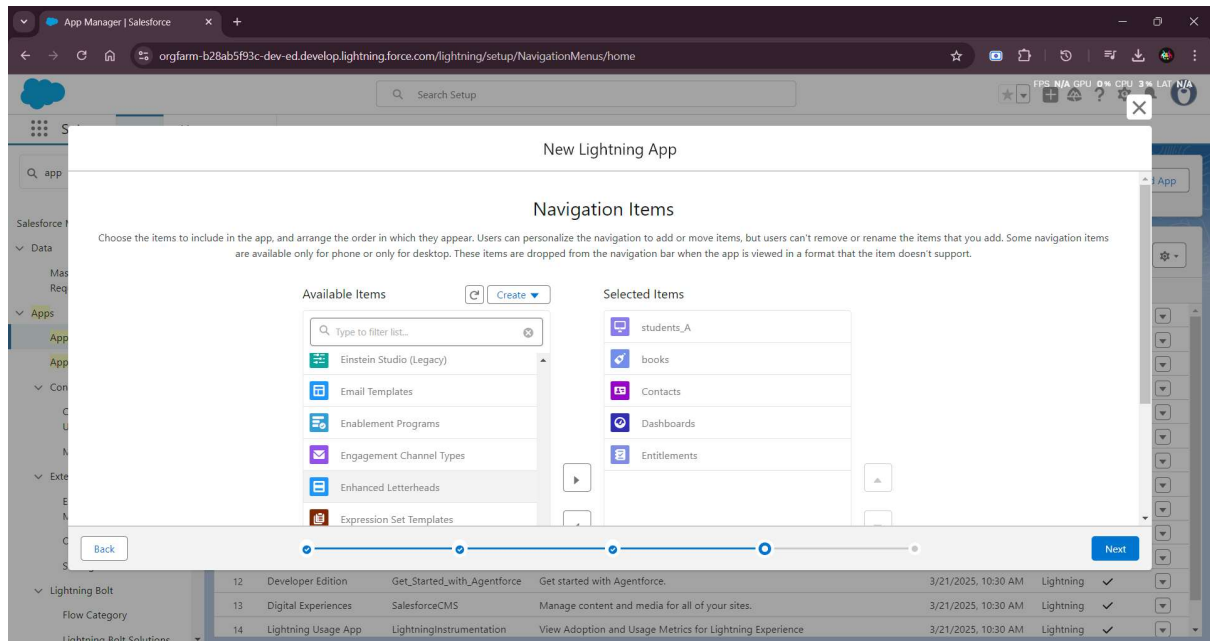
- * App Name: Library Management System
- * Developer Name: Library_Management_System
- Description: Enter a description...

App Branding

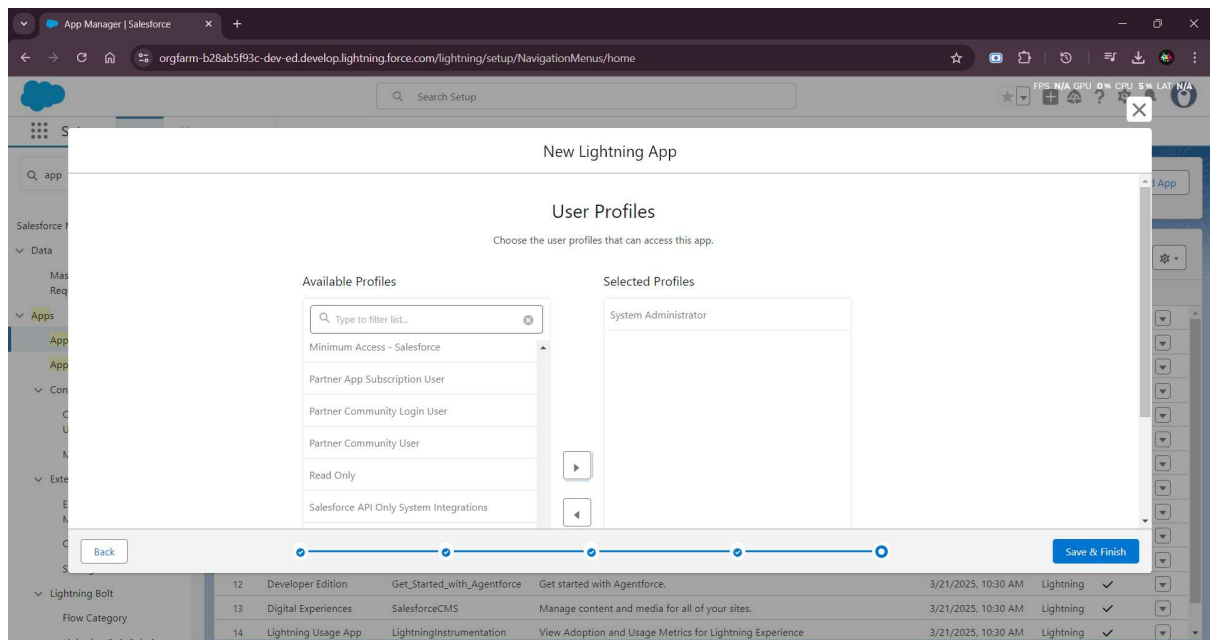
- Image: [Image placeholder]
- Primary Color Hex Value: #0070D2
- Org Theme Options: ☐ Use the app's image and color instead of the org's

Next

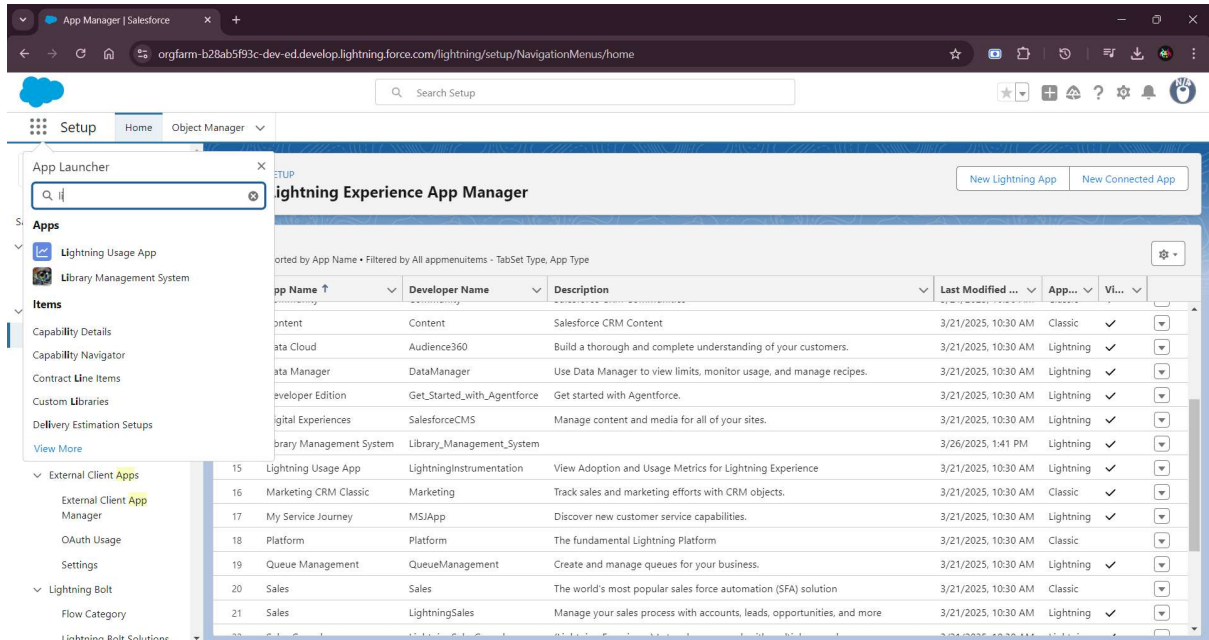
Step 3i : Add students_A, books, Contacts, Dashboard and Entitelements section in Navigation Items and Click Next



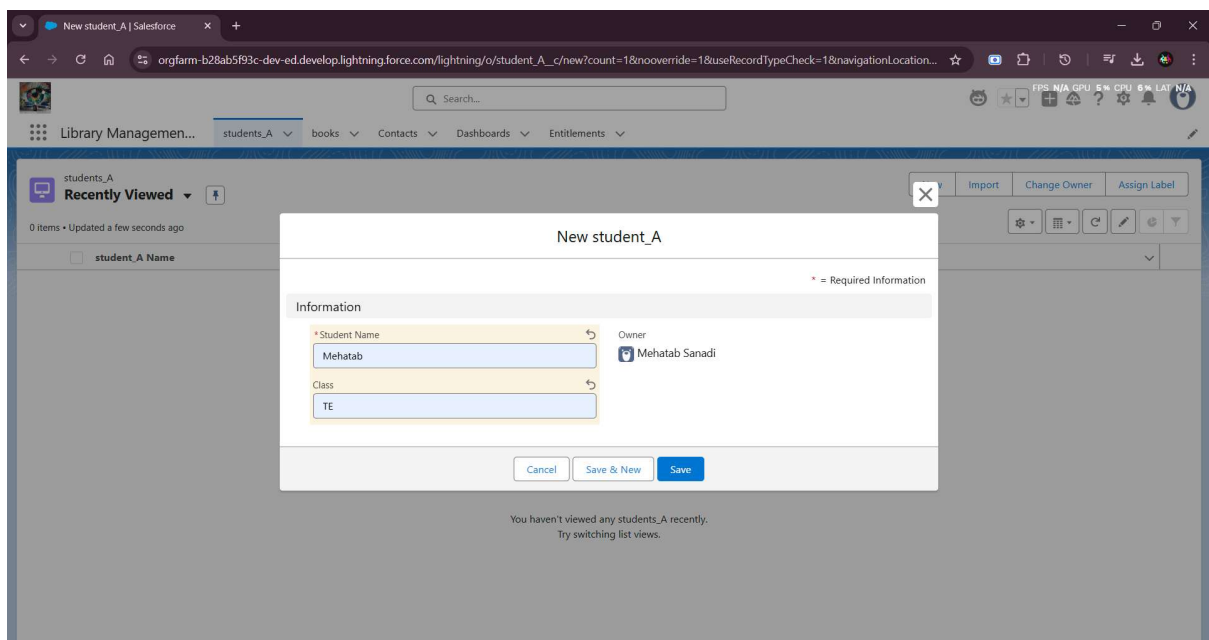
Step 3j : Add System Administrator as User Profiles and Click Save & Finish.

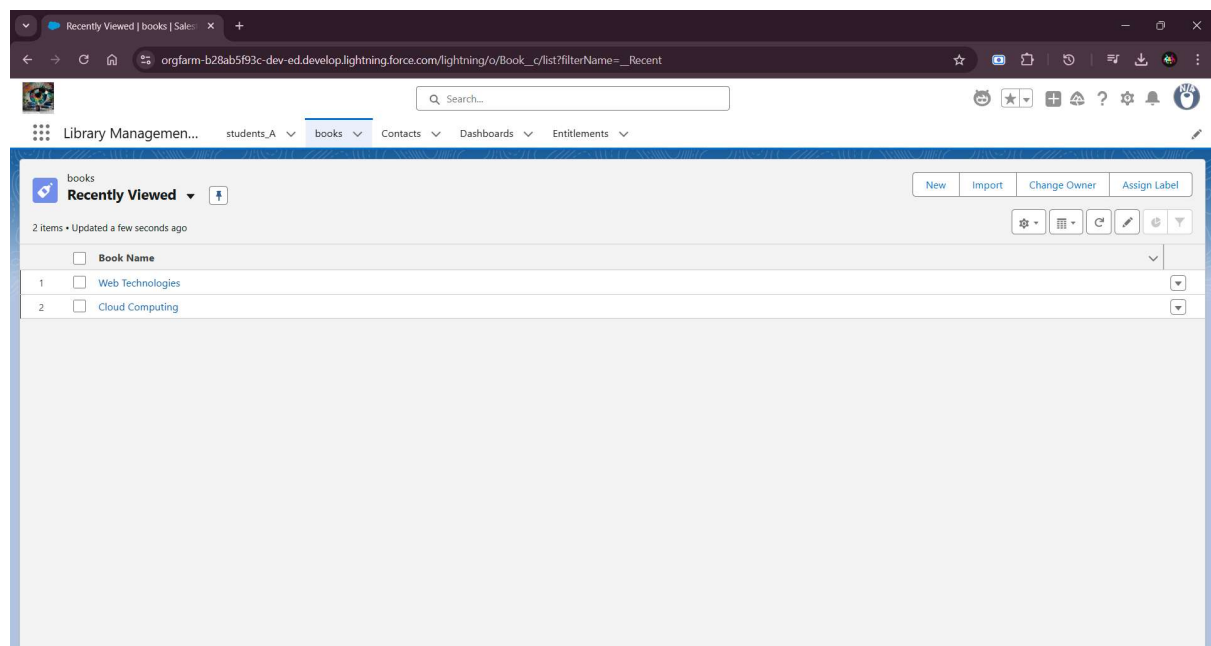
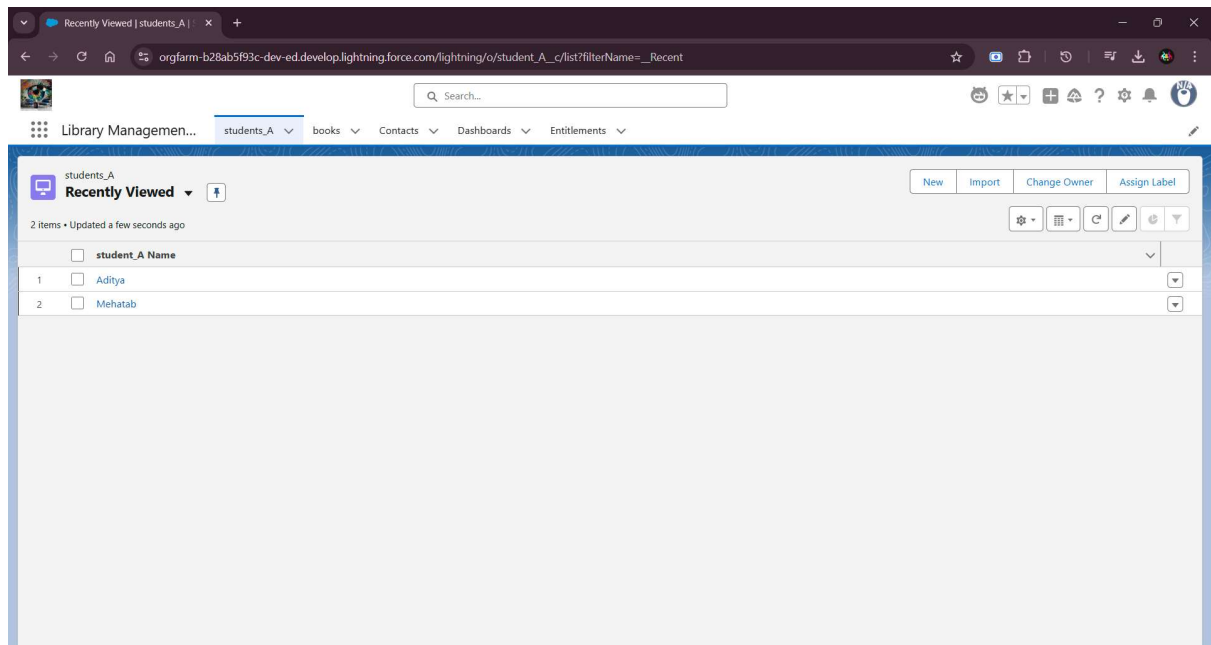


Step 3k : Now Navigate to your newly created Salesforce app
here Library Management System



Step 3l : Now create new fields and enjoy managing the app





Conclusion : Successfully Designed and developed custom Application (Mini Project) using Salesforce Cloud.