



A CRM Application to Manage the Services offered by an Institution

1. Project Overview

Develop a centralized Customer Relationship Management (CRM) application in Salesforce to manage and optimize the institution's service offerings, customer interactions, and internal workflows. The application will enhance service delivery, improve customer satisfaction, and streamline operational efficiency.

2. Objectives

The objective of this project is to develop a centralized CRM application in Salesforce to streamline the management of services offered by the institution, enhance customer interactions, and improve operational efficiency. By creating a 360-degree view of customers, automating service workflows, and enabling data-driven insights through real-time analytics, the system will empower the institution to deliver personalized, timely, and high-quality services. Additionally, it will provide a self-service portal for customers, integrate multi-channel communication, and ensure compliance with data security and regulatory standards. The ultimate goal is to enhance customer satisfaction, optimize resource utilization, and scale operations seamlessly to meet future demands.

3. Salesforce Key Features and Concepts Utilized

This Salesforce CRM project leverages a wide range of key features and concepts to streamline service management and enhance customer interactions. Service Cloud is utilized for efficient case management, Omni-Channel support, and a unified service console for agents. Salesforce Flow enables automation of workflows, including approvals, service request processing, and guided processes using screen flows. The Experience Cloud provides a self-service portal and knowledge base, empowering customers to access services independently and find answers to common queries. Through Customer 360, the system consolidates customer data across accounts, contacts, and cases, ensuring a comprehensive view for personalized service delivery.





Analytics and Reporting tools, including real-time dashboards and custom reports, offer actionable insights into performance metrics and trends. The modern Lightning Experience ensures an intuitive interface for users, with custom functionality enabled by Lightning Web Components (LWC). Salesforce Scheduler streamlines appointment and service scheduling, while

SLA tracking and escalation rules ensure timely resolution of customer issues. **Einstein AI** adds predictive analytics and sentiment analysis to proactively address customer needs and satisfaction levels.

The project integrates seamlessly with external systems through APIs and leverages AppExchange solutions for advanced functionalities like document management and surveys. Robust security measures, including role-based access and data encryption, ensure compliance with privacy regulations. For enhanced engagement, tools like Marketing Cloud or Pardot can be incorporated to manage personalized campaigns and automated customer journeys. Collaboration tools such as Chatter and the Salesforce Mobile App further enhance communication and accessibility, making the system versatile and scalable for future growth.

4. Detailed Steps to Solution Design:

Step 1: Create Objects from Spreadsheet

Create Objects from Spreadsheets

• Use the "Create Object from Spreadsheet" feature to upload and map fields for Course, Consultant, and Student objects.

Establish Relationships

- Create lookup relationships between:
 - Appointment and Student
 - Appointment and Consultant

Create Registration Object

• Build a custom object called Registration to link Student and Course data.





Add Lookup for Student Queries

Add a lookup relationship between Student and Case to handle immigration and visa queries.

Update Case Object Fields

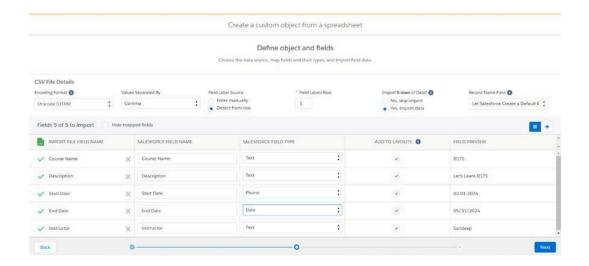
- Modify the Type field: Add Immigration and Visa Application.
- Update the Status field: Add Open and In-progress.

Build the Lightning App

• Use App Manager to create a new Lightning app called EduConsultPro. Add Home, Students, Courses, Consultants, Appointments, Registrations, and Cases as navigation items.

Assign Profiles

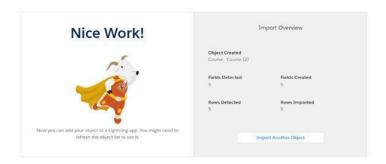
• Assign the System Administrator profile to the app and save the configuration.

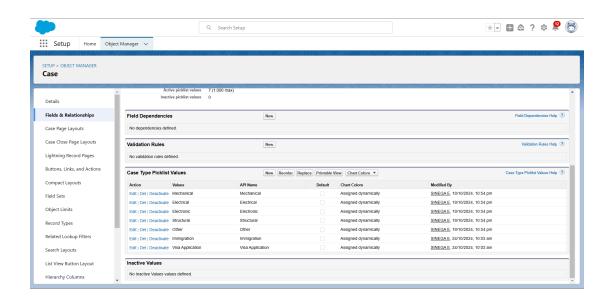






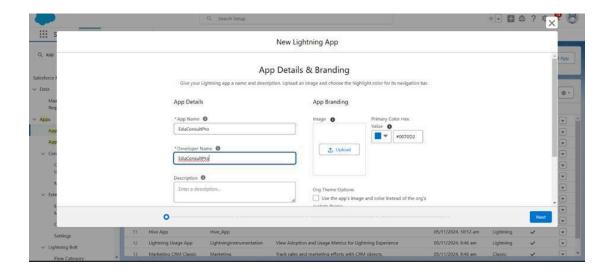












Step 2: Create a Screen Flow for Student Admission Application process

1) Create a Screen Flow

- I. Go to Setup > Flow Builder > New Flow> Screen Flow.
- II. Add a Screen Element with label Student Info.
- III. Create a record variable resource StudentRecordRes to display Student Object fields. Drag required fields to collect student data.

2) Create Student Record

- I. Add a Create Element after the Student Info screen.
- II. Label it Create Student Record, set "One Record to Create" and use StudentRecordRes to set record values.

3) Select Course

- I. Add a Screen Element labeled Course Screen.
- II. Add a Picklist Component labeled Select Course with choices: IELTS, GRE, GMAT, Duolingo, TOEFL.





4) Decision for Course Selection

I. Add a Decision Element labeled Selecting Course.

II. Create outcomes for each course (e.g., "Selected IELTS") with conditions: Resource:

Select_Course Operator: Equals

Value: Corresponding course variable (e.g., IELTS)

5) Fetch and Register Course

I. Label it (e.g., Get IELTS Rec), set conditions: Field: Course Name

II. Value: Select Course.

III. Add a Create Element to create a Registration Record. Object: Registration

6) Field Values:

Course_Name_c: {!Get_IELTS_Rec.Id}
Student Name_c: {!StudentRecordRes.Id}

7) Send Email to Student

I. Add a Text Template Resource (e.g., StuRegistrationEmailTextTempBody) for the email body.

II. Add an Action Element labeled Send Email to Student, and set:

Body: {!StuRegistrationEmailTextTempBody}

Recipient Address List: {!StudentRecordRes.Email_c

Subject: {!StuRegistrationEmailTextTempSub}

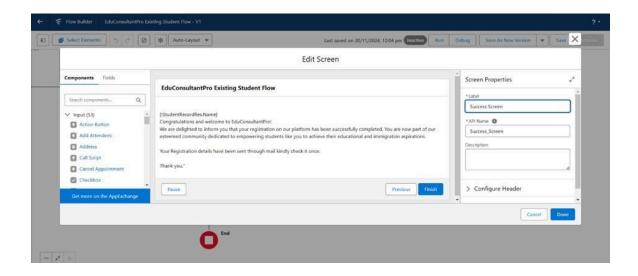
8) Success Screen

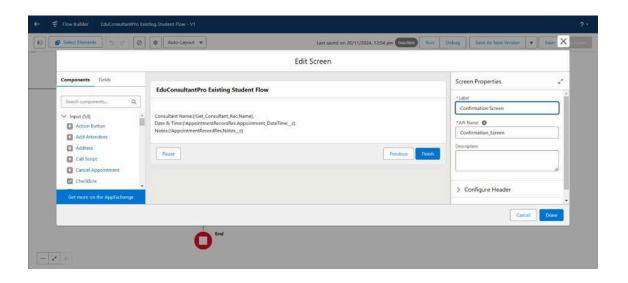
I. Add a Screen Element labeled Success Screen.

- II. Drag a Display Text Component, label it SuccessMessage, and display a confirmation message.
- III. This process completes a flow that collects student information, registers them for a course, and sends a confirmation email.



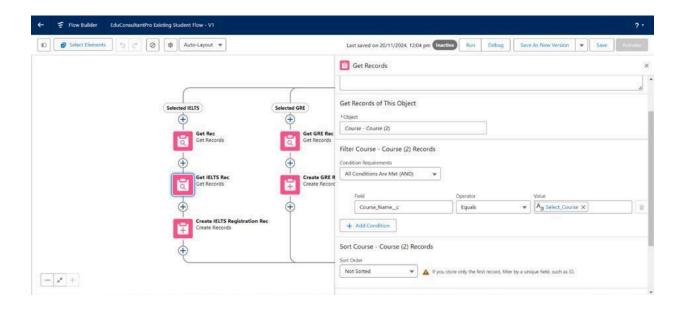


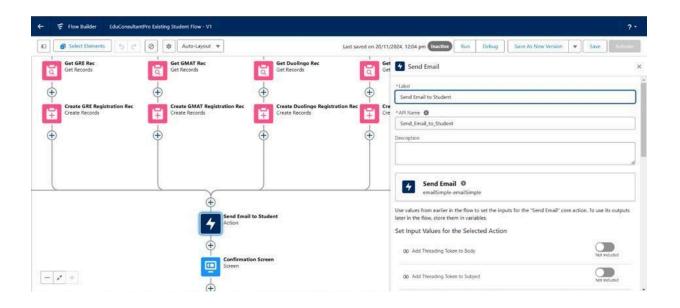






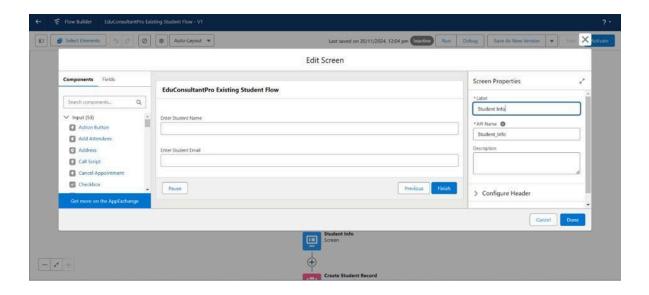












Step 3: Create a user with a Standard platform user profile.

Create New User:

- Go to Setup > Users > New User.
- Set Last Name: Consultant, License: Salesforce Platform, Profile: Standard Platform User.
- Fill mandatory fields and save.

Edit Approver Settings:

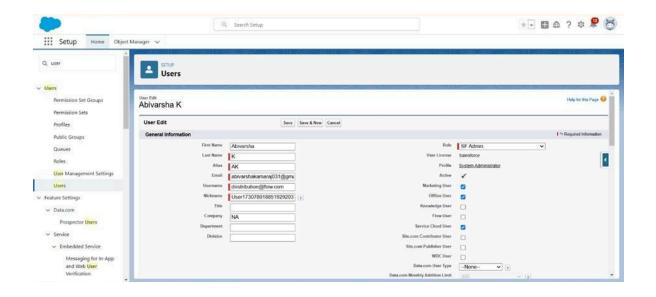
- In Setup > Users, click Edit next to your name.
- Under Approver Settings, set Manager to Consultant.

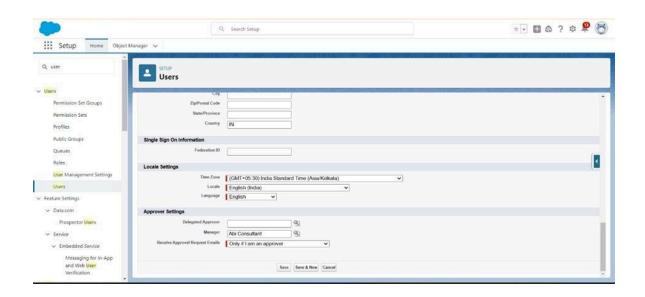
Save Changes:

Click Save to update.













Step 4:Create an Approval Process for Property Object

1. Create Email Templates

1. Enable Lightning Email Templates:

- Go to Setup > Templates > Lightning Email Templates, and toggle it on.
- 2. Create Folder for Templates:
- Use the App Launcher, search for Email Templates, and create a folder.
- 3. Create Email Templates:
- Inside the folder, create three email templates:
- Submission Template: Enter the provided HTML content and save.
- Approval Template: Use similar steps.
- Rejection Template: Use similar steps.

2. Configure Approval Process

1. Go to Approval Processes:

 Navigate to Setup > Approval Processes, and select Appointment under Manage Approval Processes For.

2. Define Approval Step:

Next Automated Approver Determined By: Select Manager.

- Record Editability Properties: Choose Administrators OR the currently assigned approver.
- Save the process.

3. Add Initial Submission Actions:

- Under Initial Submission Actions, create a Field Update:
- Field Name: Submitted
- Field to Update: Appointment: Status
- Specific Value: Pending.

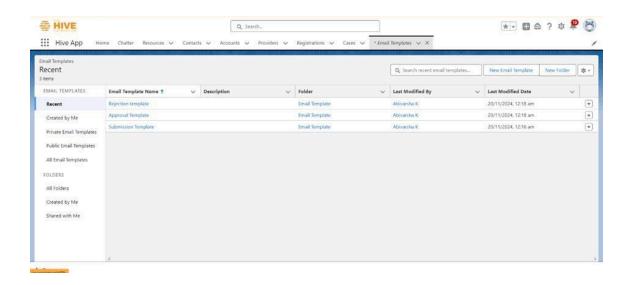
4. Create New Approval Process:

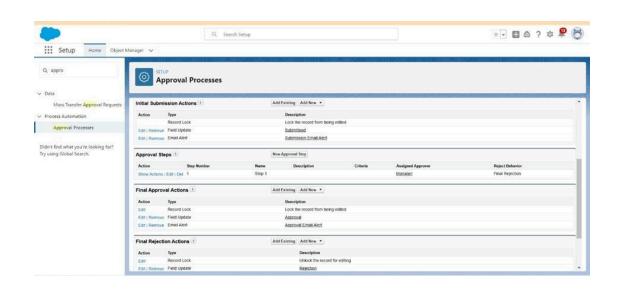
- Use the Jump Start Wizard to configure:
- Process Name: Appointment Approval.
- Select Approver: Choose Manager for automatic assignment.

This setup enables automated approvals for appointment records with the configured email notifications.













Step 5: Create a Record Triggered Flow

1) Go to Flows:

In Setup, search for Flows and click New Flow.

2) Select Flow Type:

Choose Record-Triggered Flow and click Create.

3) Set Object:

In the Configure Start window, select Object as Appointment.

4) Add Action Element:

Drag an Action Element and select Submit for Approval. Label it

Approval SubFlow and set RecordId to {!\$Record.Id}.

5) Save and Activate:

Save the flow as EduConsultPro Approval Flow and click

Activate. This setup will automatically submit appointments for approval.







Step 6: Create a Screen Flow for Existing Student to Book an Appointment

Student Info Screen:

Add two text fields for Student Name and Student Email.

Fetch Student Record:

• Use **Get Record** to retrieve student details based on name and email.

Display Student Details:

- Add a screen to show student info using display text.
- Add radio buttons for **Book an Appointment** or **Immigration Case**.

Decision Element:

• Create paths for **Appointment** and **Case**.

Appointment Path:

- Add an Appointment Booking Screen.
- Fetch consultant details using **Get Record**.
- Use Create Element to save appointment and display a confirmation screen.

Case Path:

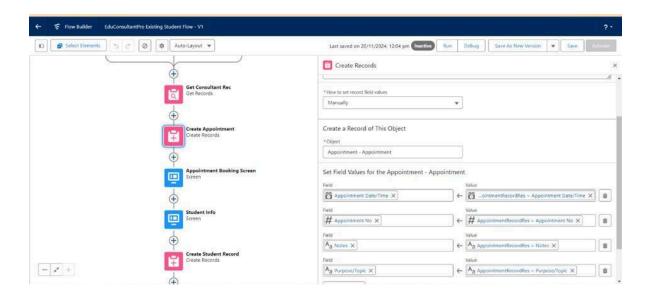
• Add a **Subflow** to create a case.

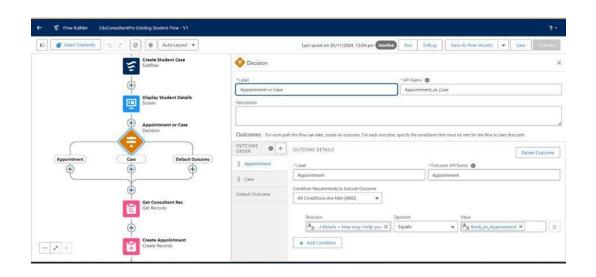
Save and Activate:

• Save as EduConsultantPro Existing Student Flow and activate.



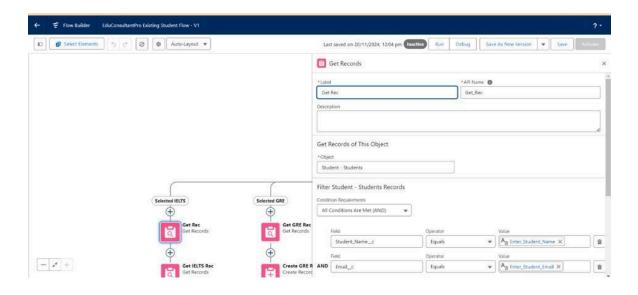


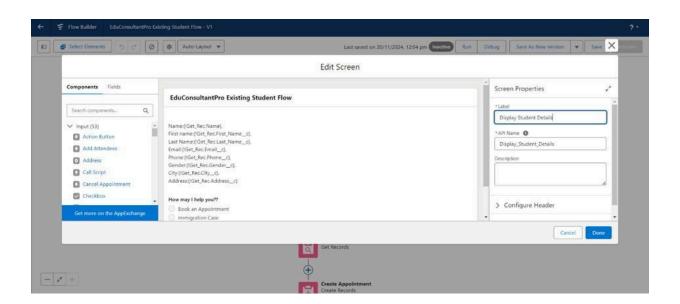
















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Step 7: Create a ScreenFlow to Combine all the flows at one place

1. Welcome Screen:

- Add a Screen Element labeled Welcome Screen.
- Use a Display Text component with SuccessMessage and paste the success message text.

2. Existing or New Student Confirmation Screen:

- Add a Screen Element labeled Existing or New Student Confirmation Screen.
- Add a Radio Button component:
- Label: Are you an Existing Student.
- Choices: Yes and No.

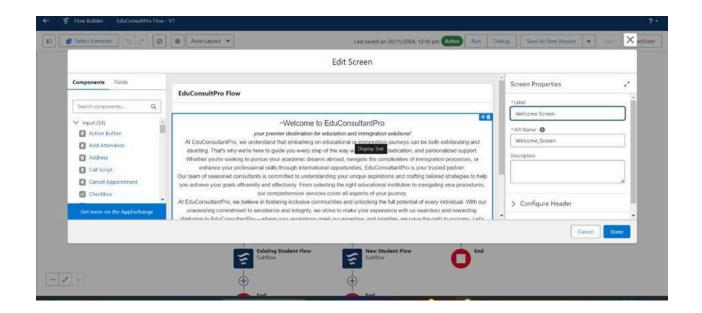
3. Decision Element:

- Add a Decision Element labeled Decision 1.
- Outcome 1: If Existing Student:
- Condition: {!Are_you_a_Existing_Student} equals Yes.

4. Subflow for Existing Student:

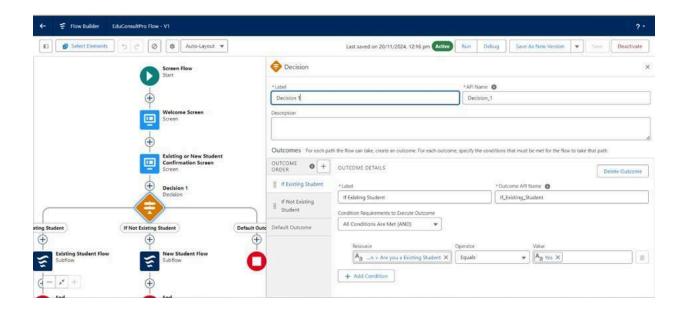
- Add a Subflow Element after the If Existing Student path.
- Select EduConsultPro Existing Student Flow.

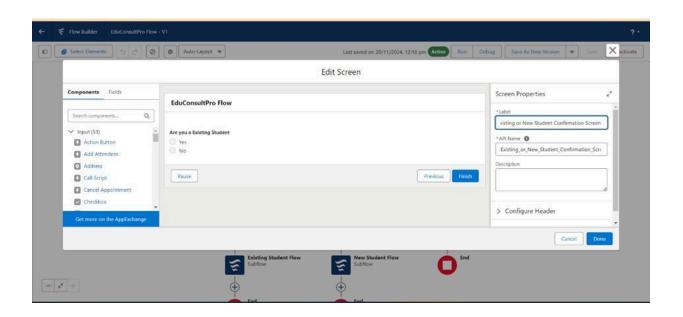
This flow handles the welcome screen, asks if the student is existing or new, and branches to an existing





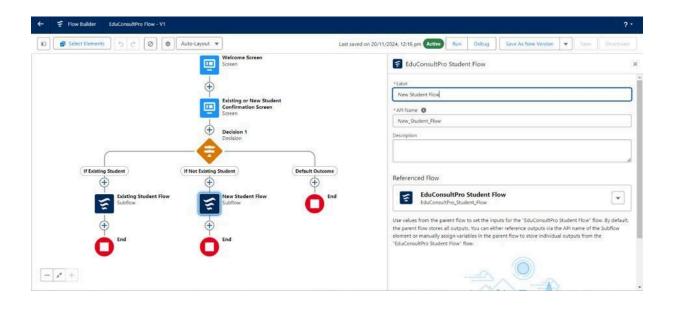


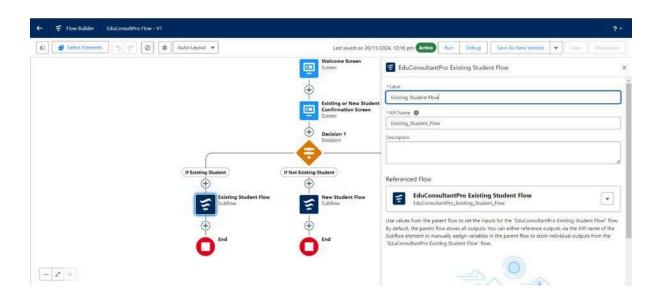
















Step 8: Create a lightning app page

1. Create Home Page:

- Go to Setup > App Builder > Lightning App Builder.
- o Click New, select Home Page, and click Next.
- Name the page EduConsultPro Home Page, select Standard Home Page template, and click Done.

2. Add Flow Component:

- Drag the Flow Component to the top-right region of the page.
- Search for EduConsultPro Flow and add it.

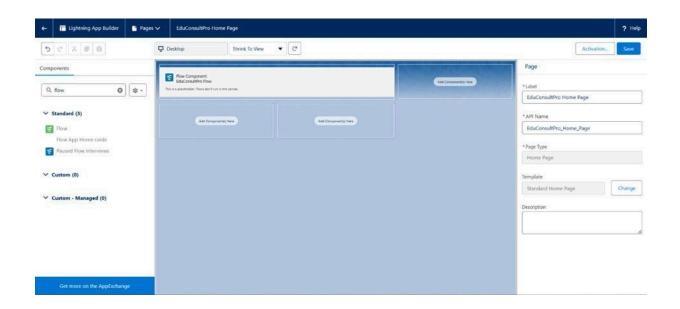
3. Save and Activate:

• Click Save, then Activate.

4. Assign to Apps and Profiles:

- Click App and Profile, then Assign to Apps and Profiles.
- Select Sales App, click
- 5. Choose System Administrator profile, click Next and then Save.

This assigns the EduConsultPro Flow to the newly created home page and configures it for the Sales App and System Administrator profile.







5. Testing and Validation

For the CRM application to manage services offered by an institution, testing involves two key areas: **Unit Testing** and **User Interface (UI) Testing**. Unit testing focuses on validating back-end components like Apex classes and triggers, ensuring service workflows, automation, and data handling operate correctly while meeting Salesforce's governor limits and achieving at least 75% code coverage. UI testing ensures the functionality and usability of customer and agent-facing interfaces, including service request workflows, self-service portals, and dashboards. It includes cross-browser/device compatibility, accessibility compliance, and end-to-end scenario testing to guarantee a seamless and efficient user experience..

6.Key Scenarios Addressed by Salesforce in the Implementation Project Service Request Management Enable customers to submit service requests via multiple channels, such as a self-service portal, email, or phone. Automate service request assignment to the appropriate team based on predefined rules. Track service request status, escalate unresolved issues, and ensure SLA compliance. Customer Interaction Tracking Provide a 360-degree view of customer profiles, including interaction history, preferences, and previous requests. Consolidate customer touchpoints across email, chat, and phone for seamless communication. Case Management Efficiently log, monitor, and resolve service-related issues or complaints. Automate escalation processes for high-priority cases to ensure timely resolutions. Provide agents with real-time dashboards for case monitoring and workload management. Self-Service Enablement

- Offer customers a portal to access services, check statuses, and browse a knowledge base for self-resolution.
- Reduce dependency on support agents by empowering customers with self-help resources.

3. Service Delivery Optimization

- o Automate approval processes for service requests, reducing delays and manual intervention.
- Schedule and manage appointments with Salesforce Scheduler for streamlined service delivery.
- Track resource availability and optimize allocation for operational efficiency.

4. Analytics and Reporting

- Enable real-time reporting on service performance, customer satisfaction, and operational metrics.
- Provide insights into trends, bottlenecks, and improvement areas through dashboards.







5. Customer Engagement and Communication

- Use automated notifications to keep customers informed about request statuses, appointment confirmations, and case updates.
- Implement targeted campaigns using Marketing Cloud or Pardot to engage customers and promote relevant services.

6. Data Security and Compliance

- Ensure secure handling of customer data using role-based access controls and encryption.
- Adhere to data protection regulations like GDPR or HIPAA, depending on institutional requirements.

7. Scalability and Customization

- o Address growing customer and service volumes with Salesforce's scalable architecture.
- Customize workflows, data models, and UI elements to meet the institution's specific requirements.

8. Collaboration and Productivity

- Facilitate teamwork with tools like Chatter for internal collaboration on cases and projects.
- Provide mobile access via the Salesforce Mobile App for agents to manage requests on the go.

These scenarios ensure that Salesforce addresses both customer-facing and operational needs, driving efficiency, customer satisfaction, and growth for the institution.







7. Conclusion

In conclusion, the Salesforce CRM implementation project for managing the services offered by the institution aims to transform service delivery, streamline operations, and enhance customer satisfaction. By leveraging Salesforce's robust features such as Service Cloud, Experience Cloud, and automation tools, the solution provides a unified platform for efficient service request handling, proactive customer engagement, and real-time insights. The integration of self-service capabilities, compliance measures, and scalability ensures that the system meets both current and future institutional needs. This implementation not only optimizes resource utilization and response times but also fosters a more personalized and seamless experience for both customers and service agents, positioning the institution for sustained success and growth.