

Milestone 12: Apex

- Activity 1
- Activity 2
- Activity 3 : Create An Apex Test Class

Milestone 13 : Flows

- Activity 1 : Creating A Screen Element On Booking Object
- Activity 2 : Creating A Create Element On Booking Object
- Activity 3 : Creating A Success Screen Element

Milestone 13 : Flows

Use Case :

A sales representative needs to create a new booking for a customer who has expressed interest in a specific flight service. The representative wants to ensure that all relevant information is captured accurately and consistently.

Milestone 10 : Reports

- Activity 1
- Activity 2

Milestone 11 : Dashboards

- Activity 1
- Activity 2

Milestone 12: Apex

- Activity 1 : Create An Apex Class
- Activity 2 : Create An Apex Trigger
- Activity 3 : Create An Apex Test Class

Milestone 13 : Flows

Milestone 12: Apex

Apex Overview

Apex is a strongly typed, object-oriented programming language that allows developers to execute flow and transaction control statements on the Lightning platform server in conjunction with calls to the Lightning Platform API. Using syntax that looks like Java and acts like database stored procedures, Apex enables developers to add business logic to most system events, including button clicks, related record updates, and Visualforce pages. Apex code can be initiated by Web service requests and from triggers on objects.

It is as similar as java i.e, it also supports OOP(Object oriented programming) like Classes, objects, methods.

Use Case 1:

Scenario: The Airline Management wants to make the passengers phone field as a mandatory field. So whenever a record gets inserted in a passenger's object that record should not get saved into the database, if the user missed the phone field.

The screenshot shows a web browser window with the URL apsche.smartinternz.com. The page is titled "Milestone 11 : Dashboards". On the left, there's a sidebar with links for "Dashboard", "Internship", and "Support". The main content area has tabs for "Guided Project" and "Project Workspace". A vertical timeline on the left lists milestones and activities:

- Milestone 1 : Creating Admin Manager Role (Activity 1)
- Milestone 2 : (Activity 2)
- Milestone 3 : (Activity 3)
- Milestone 4 : (Activity 4)
- Milestone 5 : (Activity 5)
- Milestone 6 : (Activity 6)
- Milestone 7 : (Activity 7)
- Milestone 8 : (Activity 8)
- Milestone 9 : Users (Activity 1: Create User, Activity 2)
- Milestone 10 : Reports (Activity 1, Activity 2)
- Milestone 11 : Dashboards (Activity 1, Activity 2)

The right side contains a detailed description of the milestone and its use case.

Milestone 11 : Dashboards

Dashboards help you visually understand changing business conditions so you can make decisions based on the real-time data you've gathered with reports. Use dashboards to help users identify trends, sort out quantities, and measure the impact of their activities. Before building, reading, and sharing dashboards, review these dashboard basics.

Use Case:

As an Admin for the organization you keep pushing yourself to reach out the business requirements to take the organization to peak heights and all your superiors are very much impressed with your efforts and work dedication. In addition with reports you make an ease for the CEO in viewing the reports with data visualization. So he doesn't have to search for the data he wants during the meetings.

The screenshot shows a web browser window for apsche.smartinternz.com. The left sidebar contains navigation links: Dashboard, Internship, and Support. The main area is titled "Guided Project" and "Project Workspace". On the left, there's a vertical list of milestones:

- Admin & Crew Member Profiles
- Milestone 8 : Role
 - Activity 1: Creating Admin Manager Role
 - Activity 2
- Milestone 9 : Users
 - Activity 1: Create User
 - Activity 2
 - Activity 3
- Milestone 10 : Reports
 - Activity 1
 - Activity 2
- Milestone 11 : Dashboards

The "Milestone 10 : Reports" section is currently active, indicated by a blue border around its title. To the right of this section is a large content area with the following content:

Milestone 10 : Reports

Reports give you access to your Salesforce data. You can examine your Salesforce data in almost infinite combinations, display it in easy-to-understand formats, and share the resulting insights with others. Before building, reading, and sharing reports, review these reporting basics.

Types of Reports in Salesforce

1. Tabular
2. Summary
3. Matrix
4. Joined Reports

Use Case:

The CEO of an organization wants to have a brief data of all the 4 objects. So he can have a clear picture of his organization and be able to make any decisions required based on this data. So he calls you on this task and wants you to represent the data in an appropriate way.

Let's create a Report.

The screenshot shows a web browser window for apsche.smartinternz.com. The page is a guided project workspace for a Salesforce internship. The left sidebar includes links for Dashboard, Internship, and Support. The main area has tabs for Guided Project and Project Workspace, with Project Workspace selected. On the left, a vertical navigation bar lists milestones: Admin & Crew Member Profiles, Milestone 8 : Role (with Activity 1: Creating Admin Manager Role and Activity 2), Milestone 9 : Users (with Activity 1: Create User, Activity 2, and Activity 3), Milestone 10 : Reports, Milestone 11 : Dashboards, Milestone 12: Apex, and Milestone 13 : Flows. The right side features a large callout box with the title "Milestone 9 : Users". The text explains that a user is anyone who logs in to Salesforce, identifying employees at the company. It states that every user has a user account which identifies the user and determines accessible features and records. It also notes that each user account contains at least the following fields: Username, Email Address, User's First Name (optional), User's Last Name, Alias, Nickname, License, Profile, and Role (optional). A list of these items is provided.

Milestone 9 : Users

A user is anyone who logs in to Salesforce. Users are employees at your company, such as sales reps, managers, and IT specialists, who need access to the company's records. Every user in Salesforce has a user account. The user account identifies the user, and the user account settings determine what features and records the user can access.

Every user in Salesforce has a user account. The user account identifies the user, and the user account settings determine what features and records the user can access. Each user account contains at least the following:

- Username
- Email Address
- User's First Name (optional)
- User's Last Name
- Alias
- Nickname
- License
- Profile
- Role (optional)

Milestone 8 : Role

A role in Salesforce defines a user's visibility access at the record level. Roles may be used to specify the types of access that people in your Salesforce organization can have to data. Simply put, it describes what a user could see within the Salesforce organization.

Use Case:

You have successfully fulfilled the 1st requirement i.e., differentiating the users based on the functionality. Now comes the 2nd task of differentiating the users based on their position, using your excellent admin skills and expanding the custom roles for the organization and assigning it to the users.

- Activity 1: General Admin Profile
- Activity 2: Management Admin Profile
- Activity 3: Create Senior Admin & Crew Member Profiles

Milestone 8 : Role

- Activity 1: Creating Admin Manager Role
- Activity 2:

- + Milestone 9 : Users
- + Milestone 10 : Reports
- + Milestone 11 : Dashboards

The screenshot shows a web browser window with the URL apsche.smartinternz.com. The page is titled "Milestone 7 : Profiles". On the left sidebar, there are links for "Dashboard", "Internship", and "Support". The main content area has tabs for "Guided Project" and "Project Workspace". The "Guided Project" tab is active, showing a vertical list of activities:

- Activity 4: Milestone 7 : Profiles
 - Activity 1: General Admin Profile
 - Activity 2: Management Admin Profile
 - Activity 3: Create Senior Admin & Crew Member Profiles
- Milestone 8 : Role
- Milestone 9 : Users
- Milestone 10 : Reports
- Milestone 11 : Dashboards
- Milestone 12: Apex
- Milestone 13 : Flows

The "Project Workspace" tab is also visible. The right side of the screen contains descriptive text about profiles and their types.

Milestone 7 : Profiles

A profile is a group/collection of settings and permissions that define what a user can do in salesforce. Profile controls "Object permissions, Field permissions, User permissions, Tab settings, App settings, Apex class access, Visualforce page access, Page layouts, Record Types, Login hours & Login IP ranges. You can define profiles by the user's job function. For example System Administrator, Developer, Sales Representative.

Types of profiles in salesforce

1. Standard profiles:
By default salesforce provides below standard profiles.
 - Contract Manager
 - Read Only
 - Marketing User
 - Solutions Manager
 - Standard User
 - System Administrator.We cannot deleted standard ones
Each of these standard ones includes a default set of permissions for all of the standard objects available on the platform.
2. Custom Profiles:
Custom ones defined by us.
They can be deleted if there are no users assigned with that particular one.

Use Case:

The screenshot shows a web browser window with the URL apsche.smartinternz.com. The page is titled "Smartinternz" and displays a "Guided Project" interface. On the left sidebar, there are links for "Dashboard", "Internship", and "Support". The main content area has tabs for "Guided Project" and "Project Workspace", with "Guided Project" selected. A vertical list of activities is shown in boxes:

- Between Flight And Booking
- Activity 5: Creating Remaining Fields
- Activity 6: Creating Field Dependencies
- Activity 7
- Activity 8: Schema Builder
- Milestone 6 - User Adoption** (highlighted in orange)
- Activity 1: Create A Record (Passenger)
- Activity 2: View A Record(Passenger)
- Activity 3: Delete A Record(Passenger)
- Activity 4:

To the right of the activities, a large callout box contains the following text:

Milestone 6 - User Adoption

Use Case:

As a new Administrator, you perform user management tasks like creating and editing users, resetting passwords, granting permissions, configuring data access, and much more. In this unit, you will learn about users and how you add users to your Salesforce org.

The screenshot shows a web browser window with the URL apsche.smartinternz.com. The page is titled "Smartinternz" and displays a "Guided Project" titled "Fields". The left sidebar includes links for "Dashboard", "Internship", and "Support". The main content area shows a list of activities under the "Fields" section:

- Activity 1: Creating Field In Flight Object
- Activity 2: Creating Departure Date On Booking Object
- Activity 3: Creating Picklist Field On Flight Object.
- Activity 4: Creating Lookup Relationship Between Flight And Booking
- Activity 5: Creating Remaining Fields
- Activity 6: Creating Field Dependencies
- Activity 7
- Activity 8: Schema

To the right of the activities, a large box contains the following text:

Fields

Use Case:

Now it's time for you to think out of the box for your organization. You have successfully created the database objects for the organization but now all eyes turn on you as you have to define what sort of information the objects store which you have created. As a life saver of your organization you come up with the idea of creating fields to store different types of data.

The Lightning App

An app is a collection of items that work together to serve a particular function. In Lightning Experience, Lightning apps gives users access to sets of objects, tabs, and other items all in one convenient bundle in the navigation bar.

Lightning apps let you brand your apps with a custom color and logo. You can even include a utility bar and Lightning page tabs in your Lightning app. Members of your org can work more efficiently by easily switching between apps.

Use Case:

Well done you have reached close to your organizational requirement by creating the objects to store the organization's data. Making a database for an organization is just not enough to reach out the requirements, the task is how the users at the organization can access the objects you have created for them. As an Admin for the TheSmartBridge organization it's your duty to make sure every user of the organization is able to access the data modeling structure.

Activity 3

- Tabs**
 - Creating A Custom Tab(Flight)
 - Creating A Custom Tab(Booking)
 - Activity 3**
- The Lightning App**
- Fields**
- Milestone 6 - User Adoption
- Milestone 7 : Profiles
- Milestone 8 : Role
- Milestone 9 : Users
- Milestone 10 : Reports

Tabs

Use Case:

Creating Objects and storing TheSmartBridge organization's data is the very first step in the requirements they want. Now to access the stored data by an employee from the organization Admin needs to create Tabs. By designing a dedicated Tab, businesses can improve user experience, simplify navigation, and provide quick access to critical information, enhancing productivity and ensuring efficient utilization of Salesforce's capabilities.

The screenshot shows a web browser window with the URL apsche.smartinternz.com. The page is a guided project workspace for 'Airlines Management System'. The left sidebar includes links for Dashboard, Internship, and Support. The main area has tabs for Guided Project and Project Workspace, with the Guided Project tab selected. The workspace tree on the left shows the following structure:

- Salesforce
 - Creating Developer Account
 - Account Activation
- Object
 - Create Flight Object
 - Create Booking Object
 - Activity 3**
- Tabs
 - The Lightning App
 - Fields
 - Milestone 6 - User Adoption

A large callout box on the right side contains the following content:

Activity 3

Create 2 more objects with record names as Passenger Id and Crew Id.

The screenshot shows a web browser window with the URL apsche.smartinternz.com. The page is titled "Guided Project" and is part of a "Project Workspace". On the left sidebar, there are links for "Dashboard", "Internship", and "Support". The main content area displays a hierarchical tree under the heading "Airlines Management System". The tree includes nodes for "Salesforce", "Object", and "Milestone 6 - User Adoption". Under "Object", there are three red boxes: "Creating Developer Account", "Account Activation", and "Create Booking Object". The "Create Booking Object" box is highlighted with a red border. To the right of the tree, a large callout box contains the following text:

Create Booking Object

The purpose of creating a Booking object is to have detailed information about booking and reservation of the passengers.

To create an object:

1. From the setup page --> Click on Object Manager --> Click on Create --> Click on Custom Object.
 1. Enter the label name--> Booking
 2. Plural label name--> Bookings
 3. Enter Record Name Label and Format
 - Record Name : Booking Id
 - Data Type : Auto Number
 - Display Format : Bk-[0000]
 - Starting Number :1
2. Click on Allow reports,
3. Allow search --> Save

Screenshot of a web browser showing a Salesforce guided project titled "Airlines Management System". The project workspace is open, displaying a section on "Create Flight Object".

Project Workspace:

- Airlines Management System** (Green box)
- Salesforce** (Orange box)
 - Creating Developer Account**
 - Account Activation**
- Object** (Orange box)
 - Create Flight Object** (Red box)
 - Create Booking Object**
 - Activity 3**
- Tabs** (Orange box)
- The Lightning App** (Orange box)
- Fields** (Orange box)
- Milestone 6 - User Adoption** (Orange box)

Create Flight Object

The purpose of creating a Flight custom object is to have a clear picture of the flight details.

To create an object:

- From the setup page --> Click on Object Manager -->Click on Create --> Click on Custom Object.

1. Enter the label name--> Flight
 2. Plural label name--> Flights
 3. Enter Record Name Label and Format

- Record Name : Flight Name
- Data Type : Text

Screenshot of a web browser showing a guided project for an "Airlines Management System" on the Smartinternz platform.

The left sidebar includes links for Dashboard, Internship, and Support.

The main content area shows a tree structure of project components:

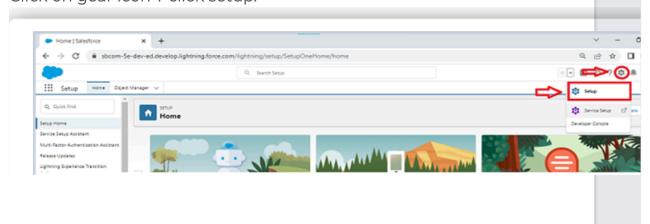
- Airlines Management System
 - Salesforce
 - Creating Developer Account
 - Account Activation
 - Object
 - Create Flight Object
 - Create Booking Object
 - Activity 3
 - Tabs
 - The Lightning App
 - Fields
 - Milestone 6 - User Adoption

The right panel displays a section titled "Object" with the following content:

Use Case:

Creating an object in Salesforce organization is essential for efficient data management and process automation. By defining custom objects, businesses can structure and store data specific to their needs, enabling streamlined workflows, personalized reporting, and enhanced user experiences. Objects serve as the foundation for organizing and leveraging critical information within Salesforce. As an Admin for The Air India airlines, it's your responsibility to store the data as per the organization needs.

To Navigate to Setup page:
Click on gear icon ? click setup.



Screenshot of a web browser showing a guided project workspace for an "Airlines Management System" on the Smartinternz platform.

The left sidebar includes links for Dashboard, Internship, and Support.

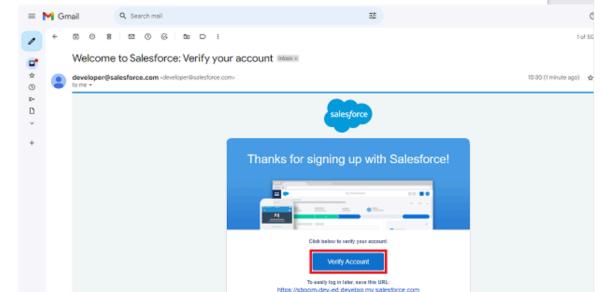
The main area shows a tree view of the project structure:

- Airlines Management System
 - Salesforce
 - Creating Developer Account
 - Account Activation
 - Object
 - Tabs
 - The Lightning App
 - Fields
 - Milestone 6 - User Adoption
 - Milestone 7 : Profiles
 - Milestone 8 : Role
 - Milestone 9 : Users

To the right, a large callout box provides instructions for account activation:

Account Activation

1. Go to the inbox of the email that you used while signing up. Click on the verify account to activate your account. The email may take 5-10mins.
2. Click on Verify Account
3. Give a password and answer a security question and click on change password.



Screenshot of a web browser showing a guided project for an "Airlines Management System" on the Smartinternz platform.

The left sidebar includes links for Dashboard, Internship, and Support.

The main area shows a tree view of the project structure:

- Airlines Management System
 - Salesforce
 - Creating Developer Account** (highlighted in red)
 - Account Activation
 - Object
 - Tabs
 - The Lightning App
 - Fields
 - Milestone 6 - User Adoption
 - Milestone 7 : Profiles
 - Milestone 8 : Role
 - Milestone 9 : Users

To the right, a modal window titled "Creating Developer Account" provides instructions and a screenshot of the Salesforce developer sign-up page.

Creating Developer Account

Creating a developer org in salesforce.

1. Go to <https://developer.salesforce.com/signup>
2. On the sign up form, enter the following details :

Sign up for your **Salesforce Developer Editor**
A full-featured copy of the Platform, for free

Complete the form to start your free trial. Our team will be in touch to help you make the most of your trial.

First Name* Last Name*
Email*
Role*
Company*

Build enterprise-quality apps fast to bring your ideas to life

- Build apps fast with drag and drop tools
- Customize your data model with clicks
- Go further with Apex code
- Integrate with anything using powerful APIs
- Stay protected with enterprise-grade security
- Customize UI with clicks or any leading-edge web framework

The screenshot shows a web browser window with the URL apsche.smartinternz.com. The page is titled "SmartInternz" and displays a "Guided Project" for "Airlines Management System". The sidebar on the left includes links for Dashboard, Internship, and Support. The main content area shows a "Salesforce" section with a "Use Case:" paragraph and an "Introduction:" paragraph.

Airlines Management System

Salesforce

Use Case:

The Airlines Management System offers a compelling use case in the airline industry. Air India International airline that operates numerous flights daily across various destinations. Prior to implementing the system, managing flight schedules, passenger bookings, and seat allocations was a labor-intensive task prone to errors. However, with the Airlines Management System, the airline gains a centralized platform to efficiently manage its operations. Flight schedules can be easily updated, seat availability can be monitored in real-time, and passengers can conveniently make reservations online. The system automates check-in processes, ensuring a seamless experience for travelers. With improved accuracy, reduced manual efforts, and enhanced customer service, the airline witnesses increased operational efficiency and customer satisfaction.

Introduction:

Are you new to Salesforce? Not sure exactly what it is, or how to use it? Don't know where you should start on your learning journey? If you've answered yes to any of these questions, then you're in the right place. This module is for you. Welcome to Salesforce! Salesforce is game-changing technology.

The screenshot shows a web browser window with the URL apsche.smartinternz.com. The page is titled "Airlines Management System" and is part of a "Guided Project". The left sidebar includes links for Dashboard, Internship, and Support. The main content area displays a flowchart of steps:

- Airlines Management System**
- Salesforce**
 - Creating Developer Account
 - Account Activation
- Object**
 - Create Flight Object
 - Create Booking Object
 - Activity 3
- Tabs**
 - Creating A Custom Tab(Flight)
 - Creating A Custom Tab(Booking)

Airlines Management System

Hardware Required:
laptops

System Required:
Windows 8 machine Install with two web browser Bandwidth of 30mbps

This project aims to enhance the efficiency and effectiveness of managing flights, reservations, and passenger information. The system enables airlines to manage their fleet, schedule flights, allocate seats, and handle bookings seamlessly. It provides functionalities for ticket reservations, seat availability checks, passenger check-ins, and baggage handling. Additionally, the system facilitates communication between airlines, airports, and passengers through automated notifications and alerts. With its user-friendly interface and robust database management, the Airlines Management System optimizes workflow, improves customer satisfaction, and ensures smooth operations for the entire airline industry.