

Career Guidance: How to Start a Career in Salesforce

Salesforce has become one of the most in-demand platforms in the world of CRM (Customer Relationship Management). With businesses adopting Salesforce globally, the demand for skilled professionals is skyrocketing. Whether you're a fresher, an IT professional looking for a switch, or someone from a non-technical background, Salesforce offers diverse career opportunities.

Why Choose Salesforce?

1. **High Demand:** Salesforce is the #1 CRM platform with millions of users worldwide.
 2. **Attractive Salaries:** Salesforce roles are among the highest-paying in the IT industry.
 3. **Diverse Roles:** Opportunities exist for Developers, Administrators, Business Analysts, Architects, and Consultants.
 4. **Future-Proof Career:** Salesforce continues to grow rapidly with new innovations like AI (Einstein) and automation.
 5. **No Strong Prerequisites:** Even non-technical graduates can build a career in Salesforce.
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Career Pathways in Salesforce

1. Salesforce Administrator

- Focus: Managing users, customizing dashboards, automating processes.
- Best for: People with problem-solving skills, less coding.
- Certifications: Salesforce Administrator (ADM 201).

2. Salesforce Developer

- Focus: Coding with **Apex, Lightning Web Components (LWC), SOQL, and Triggers**.
- Best for: Those who enjoy programming.
- Certifications: Salesforce Platform Developer I & II.

3. Salesforce Consultant

- Focus: Implementing Salesforce solutions for clients.
- Best for: People with good business and communication skills.

4. Salesforce Architect

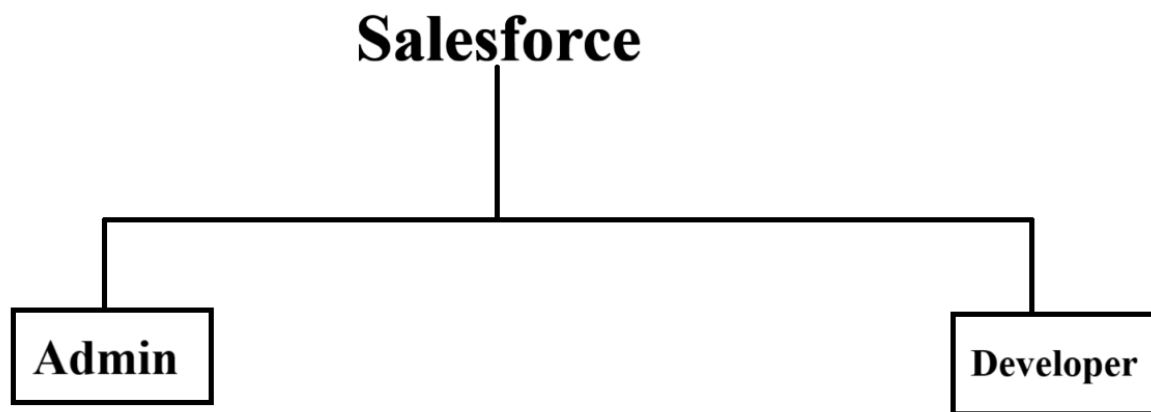
- Focus: Designing scalable solutions.
- Requires: Deep technical + business expertise.
- Certifications: Technical Architect, Application Architect, System Architect.

5. Salesforce Business Analyst

- Focus: Gathering requirements, bridging business & technical teams.
- Best for: Analytical thinkers with minimal coding.

6. Salesforce Marketing / Service / Commerce Specialist

- Focus: Niche roles in Marketing Cloud, Service Cloud, and Commerce Cloud.
- Best for: Professionals with domain-specific interests.



Salesforce Admin Topics (Complete List)

1. Salesforce Basics

- Salesforce Architecture (Multi-tenant, Metadata-driven, Cloud model)
 - Editions, Licenses, and Features
 - Company Profile (Fiscal Year, Business Hours, Holidays, Currencies)
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2. User Setup & Security

- Creating & Managing Users

- Profiles & Permission Sets
 - Permission Set Groups
 - Roles & Role Hierarchy
 - Organization-Wide Defaults (OWD)
 - Sharing Rules (Criteria-based, Owner-based)
 - Manual Sharing & Team Sharing (Account, Opportunity, Case Teams)
 - Login IP Ranges, Login Hours
 - Two-Factor Authentication (2FA)
 - Session Security Settings
 - Security Health Check
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3. Data Modeling

- Objects (Standard vs Custom)
 - Fields (Standard, Custom, Formula, Roll-Up Summary, Geolocation)
 - Field Types (Lookup, Master-Detail, External Lookup, Indirect Lookup, Hierarchical)
 - Relationships (Lookup, Master-Detail, Many-to-Many with Junction Objects, Self-Relationship)
 - Field Dependencies (Controlling & Dependent Picklists)
 - Schema Builder
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4. Data Management

- Data Import Wizard
 - Data Loader (Insert, Update, Upsert, Delete, Export)
 - External IDs
 - Deduplication (Duplicate Rules, Matching Rules)
 - Data Skew Issues
 - Large Data Volume Best Practices
 - Mass Transfer Records, Mass Delete Records
 - Data Archiving & Storage Management
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5. Automation Tools

- Workflow Rules (legacy, deprecated)
- Process Builder (legacy, deprecated)
- **Flow Builder (current & most important):**
 - Record-Triggered Flow
 - Screen Flow
 - Autolaunched Flow
 - Schedule-Triggered Flow
 - Subflows

- Approval Processes (Single/Multi-step)
 - Assignment Rules (Lead & Case)
 - Escalation Rules
 - Email Alerts & Templates
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6. UI Customization

- Page Layouts
 - Record Types
 - Business Processes (Sales, Support, Lead)
 - Compact Layouts
 - Path & Guidance for Success
 - Lightning App Builder (Record Page, Home Page, App Page)
 - Dynamic Forms & Dynamic Actions
 - Global Actions vs Object-Specific Actions
 - Buttons, Links, Quick Actions
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7. Reports & Dashboards

- Report Types (Standard, Custom, Joined)
 - Report Formats (Tabular, Summary, Matrix, Joined)
 - Filters (Cross Filters, Field-to-Field Filters)
 - Bucket Fields
 - Row-Level Formulas
 - Dashboards (Components, Filters, Dynamic Dashboards)
 - Report & Dashboard Subscriptions
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8. Sales Cloud Features (Admin Scope)

- Leads & Lead Conversion
 - Campaigns & Campaign Influence
 - Opportunities (Stages, Products, Quotes, Price Books)
 - Forecasting (Collaborative Forecasts)
 - Territory Management
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9. Service Cloud Features (Admin Scope)

- Case Management
- Queues & Assignment Rules
- Case Escalation Rules

- Email-to-Case, Web-to-Case
 - Service Console
 - Knowledge Base (Articles, Data Categories)
 - Entitlements & Milestones (SLA)
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10. Data Security & Compliance

- Field-Level Security
 - Record-Level Security (Role Hierarchy, Sharing Rules, Teams)
 - Shield Platform Encryption (awareness)
 - Data Masking
 - Audit Trail & Setup Audit Trail
 - Login History
 - GDPR / Compliance Awareness
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11. AppExchange & Integrations (Admin Level)

- AppExchange (Install, Manage, Uninstall Apps)
 - Connected Apps & OAuth Basics
 - Email Integration (Outlook, Gmail, Einstein Activity Capture)
 - Salesforce Mobile App (Setup, Compact Layouts, Navigation)
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12. Environment Management

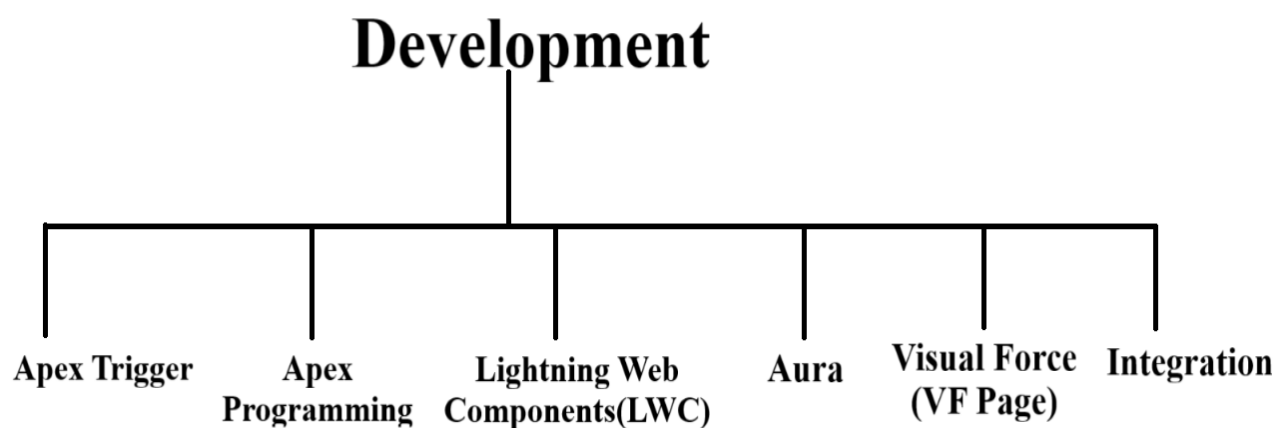
- Sandboxes (Dev, Partial, Full, Scratch Org awareness)
 - Change Sets (Inbound & Outbound)
 - Deployment Basics (Metadata Migration)
 - Salesforce Optimizer
 - App Packaging (Basics)
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13. Collaboration

- Chatter (Groups, Feed Tracking, Publisher Actions)
 - Slack Integration (awareness)
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14. Monitoring & Troubleshooting

- Setup Audit Trail
- Debug Logs (for Flows, Automation)
- Login History
- Optimizer Reports
- System Status (trust.salesforce.com)



Salesforce Apex Trigger Topics (Complete List)

1. Basics & Syntax

- Introduction to Triggers
- Trigger Events (before/after insert, update, delete, undelete)
- Trigger Context & Structure
- Trigger.new, Trigger.old, Maps

2. Order of Execution

- Full Salesforce Order of Execution
- Difference between before & after triggers

3. Context Variables

- `isInsert, isUpdate, isDelete, isUndelete`
- `isBefore, isAfter`
- `Trigger.new, Trigger.old`
- `Trigger.newMap, Trigger.oldMap`
- `Trigger.operationType`

4. Bulkification

- Why bulkification is required
- SOQL/DML in loops
- Using Maps & Sets
- Handling collections in triggers

5. Recursion Handling

- Cause of recursion in triggers
- Static variables to prevent recursion
- Field-delta checks

6. Before vs After Triggers

- When to use before triggers
- When to use after triggers
- Use-case matrix

7. Special Scenarios

- Upsert behavior
- Merge operation
- Lead Conversion
- Delete vs Undelete

8. DML & SOQL in Triggers

- Governor limits in triggers
- Best practices with DML
- Handling large data volumes (LDV)

9. Error Handling

- Using `addError()`
- Field-level vs record-level errors

10. Cross-Object Logic

- Parent-to-child updates
- Child-to-parent updates
- Roll-up alternatives

11. Async Operations

- Queueable from trigger
- Future methods (legacy)
- Batch Apex invocation
- Platform Events from triggers

12. Callouts

- Why direct callouts aren't allowed
- Queueable with callouts
- Platform Event → Integration pattern

13. Security & Sharing

- Triggers run in system mode
- Enforcing CRUD/FLS manually
- `with sharing` vs `without sharing` in handler classes

14. Design Patterns

- One trigger per object principle
- Trigger Handler class pattern
- Switchboard pattern
- fflib (Apex Commons) trigger framework
- Metadata-driven trigger frameworks

15. Performance & Best Practices

- Idempotent trigger logic
- Avoiding unnecessary updates
- Logging & debug strategies

16. Testing Triggers

- Writing bulk tests
- Negative test cases (`addError`)
- Merge/Undelete test cases
- Using Test Data Factory
- Testing async jobs from triggers

17. Deployment & Lifecycle

- Deployment order (objects → fields → triggers → classes)
- Version control & CI/CD
- Feature toggles for triggers

18. Triggers vs Automation Tools

- Trigger vs Workflow vs Process Builder vs Flow
- Coexistence with Flows (hybrid approach)
- Migration from legacy automation to triggers

19. Real-Time Scenarios

- Preventing duplicates
- Auto-updating related objects
- Enforcing complex validations
- Ownership propagation
- Complex approval restrictions

20. Advanced Topics

- Record locking & `UNABLE_TO_LOCK_ROW`
- Handling multi-currency
- Multi-language error messages
- Trigger on ContentDocument, EmailMessage, Knowledge
- Change Data Capture (CDC) vs Triggers

Salesforce Apex Programming Topics (Complete List)

1. Apex Basics

- What is Apex?
- Apex execution context
- Syntax & data types (primitive, sObject, collections)
- Variables & constants
- Operators & expressions
- Control structures (if-else, switch, loops)

2. Object-Oriented Concepts in Apex

- Classes & Objects
- Constructors
- Methods (static vs instance)
- Access Modifiers (public, private, global, protected)
- Encapsulation, Inheritance, Polymorphism, Abstraction
- Interfaces
- Virtual, Abstract & Final classes

3. Data Types in Depth

- Primitive data types (Integer, String, Boolean, etc.)
- sObjects (Standard vs Custom)
- Collections: List, Set, Map
- Enum types
- Blob, Date, DateTime, Time

4. Collections & Advanced Usage

- Lists (add, remove, sort, search)
- Sets (uniqueness, membership tests)
- Maps (key-value, keySet, values, entries)
- Nested collections (List<Map<Id, sObject>>)
- Iterating collections efficiently

5. SOQL (Salesforce Object Query Language)

- Basic queries (SELECT ... FROM ... WHERE)
- Relationship queries (parent-to-child, child-to-parent)
- Aggregate functions (COUNT, SUM, AVG, MAX, MIN)
- Group By, Having clauses
- Dynamic SOQL (`Database.query()`)
- SOQL For Loops (to avoid heap limits)
- Governor limits on SOQL

6. SOSL (Salesforce Object Search Language)

- Basics of SOSL
- Returning multiple object types
- When to use SOQL vs SOSL
- Dynamic SOSL

7. DML Operations

- Insert, Update, Upsert, Delete, Undelete
- Bulk DML operations
- Database class methods (`Database.insert`, `Database.update`, etc.)
- Partial success & `Database.SaveResult`
- Handling DML exceptions
- Transaction management (Savepoints & Rollbacks)

8. Governor Limits

- SOQL/DML limits
- CPU time limits
- Heap size limits
- Best practices to avoid hitting limits
- Tools to monitor (Developer Console, Debug Logs)

9. Exception Handling

- Try, Catch, Finally
- Custom Exceptions
- Throwing exceptions (`throw`)
- `addError()` vs throwing an exception
- Checked vs Unchecked exceptions

10. Apex Triggers (in context of programming)

- Trigger events (before/after insert, update, delete, undelete)
- Context variables
- Bulkification in triggers
- Recursion handling
- Trigger frameworks & best practices

11. Asynchronous Apex

- Future methods (`@future`)
- Batch Apex
- Queueable Apex
- Scheduled Apex
- Continuations
- Best practices for async Apex

12. Apex Testing

- Test classes & methods
- `@isTest` annotation
- `Test.startTest()` and `Test.stopTest()`
- Test data creation vs `@testSetup`
- Asynchronous job testing
- Code coverage vs meaningful test coverage
- Negative test cases
- `SeeAllData=true/false`

13. Apex Integration

- REST callouts (GET, POST, PUT, DELETE)
- SOAP callouts (WSDL2Apex)
- HTTP classes (`HttpRequest`, `HttpResponse`)
- Named Credentials
- Callouts from Queueable Apex
- Handling JSON & XML (`JSON.deserialize`, `JSON.serialize`)
- Authentication (OAuth 2.0, JWT, Connected Apps)

14. Apex & Platform Events

- Publishing platform events from Apex
- Subscribing to platform events with triggers
- `ReplayId` handling

- Event-driven architectures with Apex

15. Advanced Apex Concepts

- Dynamic Apex (Schema namespace)
- Dynamic SOQL & SOSL
- Dynamic DML
- Describe calls (field describe, object describe)
- Custom Metadata / Custom Settings access via Apex
- sObject tokenization (`Account.SObjectType`)
- Dependency Injection (using interfaces & factories)
- Apex Design Patterns (Singleton, Factory, Strategy, Unit of Work)

16. Security in Apex

- Apex runs in system mode vs user mode
- Enforcing CRUD & FLS in Apex
(`Schema.sObjectType.Account.fields.Name.isAccessible()`)
- with sharing vs without sharing
- Inherited sharing
- Secure coding practices

17. Apex & Lightning

- Using Apex in Lightning Web Components (LWC)
- `@AuraEnabled` methods
- Cacheable Apex methods (`@AuraEnabled(cacheable=true)`)
- Calling Apex imperatively vs wire service
- Apex methods with parameters in LWC

18. Apex Performance Optimization

- Avoiding unnecessary queries/DML
- Using Maps & Sets for performance
- Selective SOQL queries
- Avoiding nested loops
- Best practices for large data volumes (LDV)
- Query & transaction optimization

19. Deployment & Packaging

- Deploying Apex code with Change Sets
- Source-driven development (SFDX, Git)
- CI/CD with Apex code
- Namespaces in managed packages
- Versioning Apex classes

20. Real-Time Scenarios & Use Cases

- Trigger vs Flow vs Process Builder vs Apex decision-making
- Complex validation rules using Apex
- Rollup summary replacement logic
- Ownership propagation
- Duplicate prevention logic
- Integration with external APIs
- Email services in Apex

Salesforce Lightning Web Component Topics (Complete List)

1. Introduction to LWC

- What is Lightning Web Component?
 - Difference between **Aura** vs **LWC**
 - Benefits of LWC (performance, modern JS, reusable)
 - LWC Architecture (shadow DOM, base lightning components, services)
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2. Setup & Basics

- Setting up LWC in Salesforce Org / VS Code
 - Project structure (HTML, JS, XML files)
 - Component lifecycle in LWC
 - Naming conventions & best practices
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3. HTML & Templates

- HTML structure in LWC
 - Conditional rendering (`if:true`, `if:false`)
 - Iterators (`for:each`, `iterator`)
 - Data binding (one-way vs two-way)
 - Template expressions (`{property}`)
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4. JavaScript in LWC

- ES6+ Features (let, const, arrow functions, template literals, spread/rest)
- Variables & Constants

- Functions & Classes in JS
 - Event handling in JS
 - Getter & Setter methods in LWC
 - Modules & Imports
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5. LWC Decorators

- `@api` → Public properties/methods
 - `@track` → Reactive private properties (legacy)
 - `@wire` → Reactive service call to Salesforce data
 - `@readonly` → Immutable properties (conceptual)
 - `@AuraEnabled` → When exposing Apex methods to LWC
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6. Data Binding & Events

- One-way & two-way binding
 - Handling input fields (onchange, onclick, etc.)
 - Event propagation: bubbles, composed
 - Custom events (CustomEvent)
 - Parent-to-child communication
 - Child-to-parent communication
 - Pub-Sub model (for unrelated components)
 - Lightning Message Service (LMS)
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7. LWC & Salesforce Data

- Using `@wire` with Apex
 - Cacheable Apex (`@AuraEnabled(cacheable=true)`)
 - Imperative Apex calls (import method from '@salesforce/apex/...')
 - SOQL & filtering in Apex for LWC
 - Reactive parameters in `@wire`
 - LDS (Lightning Data Service): `getRecord`, `getFieldValue`, `createRecord`, `updateRecord`, `deleteRecord`
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8. Lightning Base Components

- `<lightning-input>`, `<lightning-button>`, `<lightning-card>`
- `<lightning-datatable>` (key interview topic!)
- `<lightning-record-form>`
- `<lightning-record-view-form>`
- `<lightning-record-edit-form>`

- `<lightning-layout>`, `<lightning-tabset>`, `<lightning-combobox>`
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9. Styling in LWC

- CSS in LWC (component-specific, shadow DOM)
 - SLDS (Salesforce Lightning Design System)
 - Styling hooks
 - Shared CSS across components
 - Dynamic styling (conditional classes)
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10. Lifecycle Hooks

- `constructor()`
 - `connectedCallback()`
 - `renderedCallback()`
 - `disconnectedCallback()`
 - `errorCallback(error, stack)`
-

11. Navigation & Utility Services

- `NavigationMixin` (navigate to record, list view, URL, etc.)
 - `ShowToastEvent` for notifications
 - `RefreshApex` for refreshing wired data
 - Wire adapters (e.g., `getRecord`, `getObjectInfo`)
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12. Integration with Apex

- Calling Apex imperatively
 - Calling Apex with `@wire`
 - Apex with parameters (dynamic filters)
 - Handling errors in Apex calls
 - Apex best practices for LWC
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13. Lightning Message Service (LMS)

- What is LMS?
- Publishing a message
- Subscribing to a message
- Communication between LWC ↔ Aura ↔ VF using LMS

14. Composition Patterns

- Parent-to-child communication (@api methods/properties)
- Child-to-parent communication (custom events)
- Sibling communication (pub-sub / LMS)
- Slots (<slot>)
- Dynamic component creation

15. Advanced LWC Topics

- Reactive variables & reactivity system
- Working with large data (pagination, infinite scrolling)
- Using third-party libraries (Chart.js, D3.js, etc.)
- Using static resources in LWC
- Calling external APIs from LWC (via Apex callouts)
- Platform events with LWC
- Change Data Capture (CDC) with LWC
- File upload/download in LWC
- Error handling & debugging in LWC

16. Testing in LWC

- Jest Testing Framework for LWC
- Writing unit tests for components
- Mocking Apex in tests
- Code coverage in LWC tests

17. Deployment & Packaging

- Deploying LWC using Change Sets
- Deploying LWC using SFDX
- LWC in Managed Packages
- Source-driven development (CI/CD with GitHub Actions, Azure DevOps, Jenkins)

18. Performance & Best Practices

- Avoiding unoptimized loops & rerenders
- Using cacheable methods
- Debouncing input handlers

- Lazy loading components
 - Optimizing DOM updates
 - Best practices for large data tables
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19. Security in LWC

- Locker Service
 - Lightning Web Security (LWS)
 - XSS prevention in templates
 - CRUD & FLS enforcement via Apex
 - Security review readiness
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20. Real-Time Scenarios

- LWC for record forms (edit, create, view)
- LWC with datatable + inline editing
- Search & filter components
- Reusable modal components
- Multi-step wizard with LWC
- File upload preview with LWC
- Dynamic picklist using metadata
- Pagination component
- Integration with external REST API

Salesforce Aura Component Topics (Complete List)

1. Introduction to Aura

- What is Aura Framework?
 - Difference between **Aura Components** vs LWC
 - Aura component architecture (Component, Controller, Helper, Renderer)
 - Component Bundle files (.cmp, .js, .css, .xml, etc.)
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2. Aura Component Basics

- Creating a component (`.cmp`)
 - Component markup structure
 - `<aura:component>` tag basics
 - Component attributes (`<aura:attribute>`)
 - Data binding (`{! }`)
 - Expressions (`value, v., c.`)
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3. Attributes & Value Providers

- Defining attributes (`aura:attribute`)
 - Default values
 - Access modifiers (`public, private`)
 - Value providers: `v, c, this`
 - Passing data between components
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4. Event Handling

- Component Events
 - Application Events
 - Event phases (capture vs bubble)
 - Registering an event (`aura:registerEvent`)
 - Firing an event (`cmp.getEvent().fire()`)
 - Handling an event (`aura:handler`)
 - Event propagation (component → parent → application)
-

5. Controllers & Helpers

- Client-side Controller (JavaScript)
 - Helper methods (logic reusability)
 - Server-side Controller (Apex Controller)
 - Invoking Apex from Aura (`@AuraEnabled`)
 - Action parameters & return types
 - Handling promises/callbacks (`setCallback`)
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6. Component Communication

- Parent-to-child communication (attributes, `aura:id`)
- Child-to-parent communication (events)
- Sibling communication (via events / application event)
- Aura vs LWC communication patterns

7. Expressions in Aura

- Expression syntax (`{! }`)
- One-way vs two-way binding
- `aura:valueChange` event
- Formula expressions in attributes

8. Iteration & Conditional Rendering

- `aura:iteration` (looping over lists)
- `aura:if` (conditional rendering)
- Handling empty states

9. Lightning Base Components in Aura

- `<lightning:input>`
- `<lightning:button>`
- `<lightning:card>`
- `<lightning:datatable>`
- `<lightning:recordForm>`
- `<lightning:recordEditForm>`
- `<lightning:recordViewForm>`

10. Styling Aura Components

- Component-specific CSS (`.css` file)
- SLDS (Salesforce Lightning Design System)
- `aura:html` tag for HTML injection
- Applying conditional styles
- Shared CSS across components

11. Aura Component Lifecycle Hooks

- `init` (`doInit` handler)
- `render`
- `afterRender`
- `rerender`
- `unrender`
- `destroy`

12. Lightning Data Service (LDS)

- `force:recordData`
- Creating, updating, deleting records without Apex
- `getNewRecord` and `reloadRecord` methods
- Record form components (`lightning:recordForm`)

13. Navigation & Utility in Aura

- `lightning:navigation` service
- Toast messages (`force:showToast`)
- Modal dialogs (`lightning:overlayLibrary`)
- Spinner handling (`lightning:spinner`)

14. Security in Aura

- Locker Service basics
- Lightning Data Service & security
- CRUD & FLS checks in Apex
- Preventing XSS in Aura
- CSP (Content Security Policy) restrictions

15. Integration with Apex

- `@AuraEnabled` methods in Apex
- Calling Apex imperatively in Aura
- Passing parameters to Apex methods
- Handling errors & exceptions from Apex
- Bulk data handling via Aura + Apex

16. Performance Best Practices

- Avoiding unnecessary rerenders
 - Using LDS instead of Apex where possible
 - Bulkification with Aura + Apex
 - Caching data (storable actions)
 - Pagination handling in Aura datatables
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17. Advanced Aura Concepts

- Component inheritance (`extends`)
 - Interfaces (`implements`) → `force:appHostable`, `flexipage:availableForAllPageTypes`, etc.
 - Aura services (`$A.get`, `$A.enqueueAction`)
 - Dynamic component creation (`$A.createComponent`)
 - Composition patterns (nested components)
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18. Testing & Debugging Aura

- Using Chrome DevTools for Aura debugging
 - Lightning Inspector extension
 - Debug logs for server-side errors
 - Jasmine/Karma test setups for Aura (rare, mostly manual)
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19. Deployment & Packaging

- Deploying Aura components (Change Sets, SFDX)
 - Namespaces in managed packages
 - Source-driven development with Aura
 - CI/CD for Aura bundles
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20. Real-Time Scenarios

- Creating custom lookup component
- Aura datatable with inline edit + Apex
- Search component with SOSL
- Custom file upload component
- Pagination with Aura iteration
- Parent-child modal component
- Event-driven dashboards

Salesforce Visual Force Topics (Complete List)

1. Introduction to Visualforce

- What is Visualforce (VF)?
 - When to use Visualforce vs LWC/Aura
 - Visualforce page structure (<apex:page>)
 - Page Controller (Standard Controller, Custom Controller, Extension)
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2. Visualforce Basics

- VF markup syntax
 - Standard Controllers (<apex:page standardController="Account">)
 - Standard List Controllers
 - Controller Extensions
 - Custom Controllers
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3. Visualforce Page Structure

- <apex:page> tag & attributes
 - <apex:form>
 - <apex:pageBlock> & <apex:pageBlockSection>
 - <apex:pageBlockTable>
 - <apex:pageBlockButtons>
 - <apex:facet>
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4. Visualforce Components

- Input Components (<apex:inputText>, <apex:inputField>, <apex:inputCheckbox>)
 - Output Components (<apex:outputText>, <apex:outputField>, <apex:outputPanel>)
 - Data Tables (<apex:dataTable>, <apex:pageBlockTable>)
 - Command Components (<apex:commandButton>, <apex:commandLink>)
 - Message Components (<apex:messages>, <apex:pageMessages>)
 - Tabs & Layout (<apex:tabPanel>, <apex:tab>)
 - Reusable Components (<apex:component>, <apex:composition>)
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5. Data Binding & Controllers

- Binding to Standard Controllers
- Binding to Custom Controllers
- Using Controller Extensions

- Getter & Setter methods in controllers
 - Passing parameters between pages (`<apex:param>`, `ApexPages.currentPage().getParameters()`)
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6. Visualforce Expressions

- `{! }` expression syntax
 - Global variables (e.g., `$User`, `$Profile`, `$Organization`)
 - Formula expressions in VF pages
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7. Action Components

- `<apex:actionFunction>`
 - `<apex:actionSupport>`
 - `<apex:actionRegion>`
 - `<apex:actionStatus>`
 - `<apex:actionPoller>`
 - AJAX behavior in VF
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8. Page Navigation

- Standard navigation with buttons & links
 - `PageReference` in Apex (`new PageReference('/apex/MyPage')`)
 - Redirects & URL parameters
 - Passing parameters between VF pages
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9. Styling in Visualforce

- CSS in VF pages (`<apex:stylesheet>`)
 - Inline CSS
 - Salesforce Lightning Design System (SLDS) in VF
 - Using static resources for CSS/JS
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10. JavaScript & VF

- Embedding JavaScript in VF (`<script>` tag, `<apex:includeScript>`)
- Using jQuery in VF
- Handling events with JS
- Calling Apex methods from JavaScript (Remote Objects, JS Remoting)

11. Visualforce Charts & Dynamic UI

- `<apex:chart>` components
- `<apex:repeat>` for dynamic rendering
- `<apex:dynamicComponent>`
- Conditional rendering (rendered attribute)

12. Advanced VF Features

- Custom Components (`<apex:component>`)
- Component attributes (`<apex:attribute>`)
- `<apex:composition>` for templates
- `<apex:define>` and `<apex:insert>` (templating)
- Visualforce Templates for reusability

13. Integration & Remote Calls

- JavaScript Remoting (`@RemoteAction`)
- Visualforce Remote Objects
- Calling REST/SOAP APIs from VF (via Apex)
- Using `<apex:iframe>` for embedding external apps

14. Visualforce & Salesforce1 / Mobile

- `<apex:page lightningStyleSheets="true">` for Lightning UI
- VF Pages in Salesforce Mobile App
- Responsive design in VF

15. Security in Visualforce

- CRUD & FLS checks in controllers
- Security best practices (no hardcoded Ids)
- XSS prevention in VF (`<apex:outputText escape="true">`)
- CSRF & clickjacking protections
- Locker Service considerations for VF + LWC/Aura hybrid

16. Performance Optimization

- View State in VF (impact & size reduction)
 - Reducing View State (transient variables, minimizing components)
 - Using StandardSetController for pagination
 - Lazy loading in VF
 - Optimizing SOQL/DML in controllers
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17. Testing VF Pages

- Writing Apex tests for VF controllers
 - Testing Standard Controllers
 - Testing Controller Extensions
 - Using `PageReference` in tests
 - Asserting Page parameters & redirects
-

18. Deployment & Packaging

- Deploying VF pages (Change Sets, SFDX)
 - Namespaces in managed packages
 - VF in Salesforce managed apps
 - Versioning VF pages
-

19. VF with Lightning (Hybrid)

- Using VF pages inside Lightning Experience
 - VF pages inside Lightning tabs
 - Embedding LWC/Aura inside VF (and vice versa via `<lightning:out>`)
 - Lightning Stylesheets in VF pages
-

20. Real-Time Scenarios

- Custom search page with VF
- VF datatable with pagination & inline editing
- VF wizard (multi-step forms)
- VF for generating custom reports
- File upload & preview in VF
- VF for custom approval screens
- Embedding external app via `<apex:iframe>`

Salesforce Integration Topics (Complete List)

1. Integration Basics

- What is Integration?
 - Types of Integration: Data Integration vs Process Integration vs UI Integration
 - Real-time vs Batch Integration
 - Synchronous vs Asynchronous Integration
 - Point-to-Point vs Middleware Integration
-

2. Salesforce APIs

- **REST API** (CRUD, Composite, Batch, Query, Search APIs)
 - **SOAP API** (Enterprise WSDL, Partner WSDL)
 - **Bulk API v1 & v2** (large data volumes)
 - **Streaming API** (Push Topics, Generic Streaming)
 - **Platform Events**
 - **Change Data Capture (CDC)**
 - **Metadata API**
 - **Tooling API**
 - **Apex REST API** (Custom REST services)
 - **Apex SOAP API** (Custom SOAP services)
 - **GraphQL API** (new, efficient querying)
-

3. Integration Patterns

- Remote Process Invocation — Request & Reply (Synchronous)
 - Remote Process Invocation — Fire & Forget (Asynchronous)
 - Batch Data Synchronization (Scheduled/Bulk)
 - Remote Call-In (External System → Salesforce API)
 - Data Virtualization (Access without storing)
 - Publish/Subscribe (Event-Driven with Platform Events & CDC)
 - Orchestration with Middleware
-

4. Authentication & Security

- OAuth 2.0 Flows (Web Server, User-Agent, Username-Password, JWT Bearer, Refresh Token)
 - Connected Apps & Auth Providers
 - Named Credentials (with/without password, OAuth)
 - Certificates & Keys (Self-signed, CA-signed)
 - Two-Way SSL (Mutual Authentication)
 - Single Sign-On (SSO) with SAML / OpenID Connect
 - External Identity Provider (IdP) vs Salesforce as IdP
 - Multi-Factor Authentication (MFA) in integrations
-

5. Callouts from Salesforce

- HTTP Callouts using `HttpRequest` & `HttpResponse`
 - REST Callouts with JSON/XML parsing
 - SOAP Callouts with WSDL2Apex
 - Named Credentials for simplified authentication
 - Handling callout exceptions (timeouts, 401, 500 errors)
 - Callouts from Future/Queueable/Batch Apex (async)
 - Continuation (for long-running callouts)
-

6. Inbound Integrations to Salesforce

- REST API call-ins (external app calling Salesforce REST endpoints)
 - SOAP API call-ins (Enterprise/Partner WSDL)
 - Apex REST services (`@RestResource`)
 - Apex SOAP services (`webservice` keyword)
 - Web-to-Lead & Web-to-Case forms
 - Email-to-Case & Email Services
 - Salesforce Sites & Experience Cloud (external forms)
-

7. Middleware & External Systems

- Common middleware: MuleSoft (native), Dell Boomi, Informatica, Jitterbit, Workato
 - ETL Tools vs ESB
 - Integration via Kafka/Event Bus
 - Salesforce Connect (OData adapters, External Objects)
 - External Services (OpenAPI/Swagger to Apex actions)
 - Data Loader / Data Import Wizard (simple batch)
-

8. Event-Driven Integrations

- Platform Events (publish/subscribe model)
 - Change Data Capture (CDC) events
 - PushTopic events
 - Generic Streaming events
 - Pub/Sub API (new unified API for event streaming)
 - Event Bus Replay & durability
 - Best practices for event-driven integrations
-

9. Large Data Volume (LDV) Integrations

- Bulk API (v1 vs v2) for millions of records
 - Chunking strategies for data imports
 - Optimizing queries for LDV integrations
 - Asynchronous processing (Batch/Queueable/Platform Events)
 - Data skew & locking considerations
-

10. Integration Error Handling & Monitoring

- Retry logic & Idempotency
 - Dead-letter queue handling (for failed messages)
 - Integration user strategy (dedicated user, least privileges)
 - Named Credential rotation & monitoring
 - Event Monitoring & Shield for tracking integrations
 - Debug logs, Event logs, API usage monitoring
 - Tools: Salesforce Shield, Splunk, NewRelic, MuleSoft Monitoring
-

11. Real-Time Integration Scenarios

- Salesforce ↔ ERP (SAP, Oracle, MS Dynamics)
 - Salesforce ↔ Payment Gateways (Stripe, PayPal)
 - Salesforce ↔ External Databases (Postgres, MySQL, SQL Server)
 - Salesforce ↔ AWS/Azure/GCP (S3, Lambda, EventBridge)
 - Salesforce ↔ Mobile Apps (OAuth + REST APIs)
 - Salesforce ↔ Marketing Tools (HubSpot, Mailchimp, Marketo)
 - Salesforce ↔ Slack (native integrations + APIs)
-

12. Integration Best Practices

- Choose right API (REST vs SOAP vs Bulk vs Streaming)
- Minimize API calls (Composite API, Bulk API)

- Enforce security (CRUD/FLS, OAuth, Named Credentials)
 - Governor limits awareness
 - Idempotent design (prevent duplicates)
 - Resilient retry logic for async integrations
 - Use middleware for complex orchestrations
 - Document integration flows
-

13. Advanced Integration Topics

- Salesforce as **System of Record vs System of Engagement**
 - Multi-org integration strategies
 - Master Data Management (MDM) with Salesforce
 - Data synchronization challenges (conflict resolution)
 - Integration patterns with **Event Bus + Middleware**
 - Real-time API performance optimization (cache, throttling)
 - Handling rate limits & API quotas (REST 429, Bulk retries)
 - Hybrid integrations (mix of APIs, events, middleware)
-

14. Testing & Deployment

- Mocking callouts in Apex tests (`Test.setMock()`)
 - Testing Named Credentials & Auth flows
 - Test coverage for integration classes
 - CI/CD for integration deployments
 - Sandbox testing with external systems
 - Post-deployment validation & smoke testing
-

15. Interview / Real-World Scenarios

- When to use REST vs SOAP vs Bulk API
- When to choose Platform Events vs CDC vs Streaming API
- Designing an integration for millions of records (LDV)
- Handling retries & duplicate prevention
- Best way to call an external API from Salesforce
- Best way to expose Salesforce data to external systems
- Middleware vs Direct API — when to use what?

Step-by-Step Guide to Start a Career in Salesforce

Step 1: Learn the Basics

- Start with **Salesforce Trailhead** (free learning platform).
- Cover fundamentals: CRM basics, Salesforce navigation, data models.

Step 2: Choose Your Role

- If you like **coding** → **Developer path**.
- If you prefer **managing systems** → **Administrator path**.
- If you're good at **communication & business processes** → **Consultant/Analyst path**.

Step 3: Get Hands-On Practice

- Use **Trailhead Playgrounds** to practice real scenarios.
- Work on mini-projects: building apps, automation flows, and reports.

Step 4: Get Certified

- Start with **Salesforce Administrator Certification (ADM 201)**.
- Later pursue **Developer (PD1)**, **App Builder**, or Consultant certifications.

Step 5: Build a Portfolio

- Contribute to Salesforce **GitHub projects**.
- Create your own Salesforce apps and showcase them.

Step 6: Apply for Jobs & Internships

- Target roles like **Salesforce Admin Intern**, **Junior Developer**, or **Support Specialist**.
- Use platforms like **LinkedIn**, **Indeed**, and **Salesforce Job Board**.

Step 7: Network with the Salesforce Community

- Join **Salesforce Trailblazer Community**.
- Attend local **Salesforce Saturday meetups** and **Dreamforce events**.

Essential Skills to Learn

- **For Admins:** Flows, Security, Reports, Data Management.
 - **For Developers:** Apex, LWC, SOQL, Triggers, Integration.
 - **For Consultants/Analysts:** Business Processes, Requirement Gathering.
 - **Soft Skills:** Problem-solving, Communication, Teamwork.
-

Certifications Roadmap

1. Salesforce Certified Administrator
 2. Salesforce Platform App Builder
 3. Salesforce Platform Developer I & II
 4. Salesforce Consultant Certifications (Sales Cloud, Service Cloud, etc.)
 5. Salesforce Architect Certifications (for advanced professionals)
-

Career Growth Opportunities

- **Entry Level:** Salesforce Admin / Developer → ₹4-8 LPA
 - **Mid-Level:** Salesforce Consultant / Senior Developer → ₹8-18 LPA
 - **Advanced:** Salesforce Architect / Program Manager → ₹20-40+ LPA
-

Tips for Success

- Be active on **Trailhead** (gamified learning).
 - Contribute to Salesforce forums.
 - Gain **real-world project experience**.
 - Stay updated with **new Salesforce releases (3 per year)**.
 - Build a strong **LinkedIn profile** showcasing certifications.
-

Final Thoughts

A career in Salesforce is **future-proof, rewarding, and diverse**. Whether you're a fresher or an experienced professional, you can enter this ecosystem with the right learning path, certifications, and community involvement.

Remember: Start small, keep learning, get certified, and network with the Salesforce community. Your Salesforce career journey will grow step by step!

Best of Luck

Trusted by 2000+ learners to crack interviews at TCS, Infosys, Wipro, EY, and more.

Want more Real Salesforce Interview Q&As?

- ✓ For Beginners (1–4 Yrs Experience): <https://lnkd.in/gvRbaChu>
- ✓ For Intermediate Developers (4–8 Yrs Experience): <https://lnkd.in/gHpeRAqa>

For All Job Seekers – 500+ Questions from Top Tech Companies: <https://lnkd.in/gsATfUk3>

- ✓ Student Journey – 34 Days to Crack Salesforce Interview: <https://lnkd.in/gJMgzXVY>

Mega Interview Packs:

- ✓ 600 Real Q&A (Recruiter Calls) → <https://lnkd.in/gFs-ClxT>
- ✓ 100 Real-Time Scenarios (Admin + Apex + LWC + Integration) → <https://lnkd.in/gYNxZMh4>

Career Boosters:

- ✓ Salesforce Project (Sales Cloud) → <https://lnkd.in/gmBdJeD9>
- ✓ Resume Templates (ATS-Friendly) → <https://lnkd.in/gRtHP Dn>

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