

### **Definition Of Salesforce And It's Products**

- Definition of cloud computing
- Importance of CRM and Solutions
- Importance of Salesforce
- Different clouds available in Salesforce
- Salesforce Features and Edition Limits
  
- **Sales Cloud-Generic Business Process**
- Features of Sales Cloud
- Products
- Campaign
- Lead
- Account
- Opportunity
- Contact
- Contract
- QuoteManage
- Order
- Forecast
- Entitlement
- The entire life cycle using the above objects
  
- **Service Cloud and Customer Service**
- Features of Service cloud
- case
- Solution
- Public Knowledge Base
- Web-to-case
- Self-Service Portal
- Escalation rules

### **Company Information**

- creating Company Profile
- Setting Fisca Year, Business Hours
- Setting Holidays and Language
- Identifying Edition

### **Salesforce Administrative Features**

- Creating User Login Credentials
- Setup-Personal Setup
- About Administartion Setup
- Standard Applications, Tabs and Objects
- Creating Custom Apps, Custom Objects and Custom Tabs
- Creating Custom Fields Using DataTypes and Picklist and Field Dependencies

### **Manage Users**

- Creating users and Roles
- Creating Custom Profiles

- Discussion on Standard Profiles
- Creating Permission Sets and Public Groups and Queues
- Login History

### ***Relationships In Salesforce***

- Lookup Relationship
- Master-Detail Relationship
- Many to many Relationships
- Junction Object
- Rollup Summary Fields
- RealTime Scenarios

### ***Applying Validations And Formulas***

- Overview of validation
- Creating Validation Rule
- Apply Formula in Validation
- PageLayout on Objects
- Mini PageLayout
- Search Layout
- Record Type
- Field Level Security on Layout

### ***Object Level Security Model***

- *Profile Level*
- Permission Set Level

### ***Field Level Security Model***

- Profile Level
- Page Layout Security
- Permission Set Security

### ***Record Level Security Model-Sharing Settings***

- Overview of Record Level security
- Organization-Wide-Default
- Sharing Rules
- Grant Access Using Hierarchies
- Internal Access
- External Access
- Manual Sharing
- Owner Based Sharing Rule
- Both Usage of Profile and OWD
- RealTime Scenarios

### ***Workflows And Approvals***

- Overview of Workflows
- Email Alerts
- Tasks
- Field Updates
- Outbound Messages

- Time Dependent Workflow Actions
- Order of Execution
- Approval Process Definition
- Dynamic Approval Process
- Multi-Step Approval Process
- Parallel Approval Process
- Approval Process Actions
- Real Time Scenarios

### ***Process Builder***

- Overview of Process Builder
- Working with Process Builder
- Automation With Process Builder

### ***Lightning Flows***

- Introduction
- Screen Flows
- Record Triggered Flows
- Automated Flows
- Scheduled Flows

### ***Data Management With SFDC***

- Overview Import wizard
- Limitations on Import Wizard
- Data Export
- Import Objects
- .CSV File usage in salesfore
- Import Data into Salesforce
- Data Loader
- Mass Transfer Records and Delete of Records

### ***Community Creation***

- Customer community
- Partner Community
- Creating User On Community
- Self Registration

### ***Security Settings***

- Single-Sign-on settings
- Session Settings
- Password Policies
- Identity Provides
- Login Access
- Identity Connect
- Email Admin Setup

### ***Reports And Dashboards***

- Importance of Reports
- Discussion On Standard Report

- Creating Custom Report, Tabular Report, Summary report, Matrix Report
- Creating Joined Report and Report Types
- Applying Filters on Report
- Run Report
- Export Report
- create Dashboard
- Fetching Dashboard in to Visualforce

### ***Administrative Integration***

- Introduction to declarative tools used in Integration
- Integrating SFDC to Github (flows), Salesforce to Salesforce and Any 3rd party platform(flows)

### ***Deployments***

- Set up Deployment configuration
- Establishing the deployment connections
- Monitoring the Deployment Status and fixing issues
- Change Sets
- Packages
- SFDX (after development module)

## **Salesforce Development**

### ***Introduction***

- Different types of development environments available
  - Dev
  - Sandbox
  - Production
- Enable Development Mode
- MVC Architecture
- Developer Console Usage
- Query Editor Usage
- Execute Anonymous Window
- Create Class Using Developer Console and Visualforce Using Developer Console
- Test and Debug Using Developer Console
- Installing Eclipse

### ***Visualforce Pages***

- Comparison With HTML Tags
- Create VF Using URL, Developer Console, Standard Navigation and Eclipse

### ***Data Sources In Visualforce***

- Apex Class Variables
- Parameters Using URL
- Global Standard Objects or Custom Objects
- Static Data

### ***Pageblock Tags***

- Pageblock
- PageBlockSection, SectionItem

- PageBlock Button and Location
- CommandButtons and Actions

### ***Input Components***

- InputText, InputField and InputSecret
- InputHidden
- InputFile

### ***Select Components***

- SelectOption
- SelectOptions
- SelectCheckBox
- SelectRadio

### ***Message Tags***

- PageMessage
- PageMessages

### ***Panel Tags***

- PanelBar
- PanelBarItem
- PanelGrid
- PanelGroup
- Other Visual force Tags

### ***List Views***

- Creating Views
- PageBlockTable ListView
- DataTable
- DataList
- Repeat

### ***Action Components In Visualforce***

- ActionSupport
- Action Function
- ActionStatus
- ActionRegion
- ActionPoller

### ***Real Time Topics With Visualforce***

- Usage of Static Resource In VF
- Overriding Buttons, Links and Tabs with VF
- Dynamic Visualforce Binding
- VisualforceTemplates
- Generate Visualforce page as PDF,WordDocument
- Real Time Scenarios

### ***Usage Of CSS In Visualforce***

- Create CSS Class
- InternalCSS

- External CSS
- StaticResource In ExternalCSS
- Bootstrap Usage in Visualforce
- Realtime Scenarios

### ***Usage Of JavaScript***

- JS Functions Usage in Visualforce
- JS DOM Usage in visualforce
- JS Events Usage in Visualforce
- JS Validations In Visualforce
- Internal JavaScript
- External JavaScript
- Realtime Scenarios

### ***Usage Of jQuery In Visualforce***

- Using Less Code In Visualforce
- JQuery StaticResources

### ***Usage Ajax In Visualforce***

- Overview on Connections
- Ajax SOQL
- Ajax DML

### ***OOPS ( Object Oriented Programming )***

- Fundamental and Properties
- Variables
- Identifiers
- Data types
- Access Modifiers
- Methods
- Conditional Statements
- Exceptional Statements
- Class syntax writing
- Constructing Method
- Reference Variables
- Setter Method
- Getter method
- Constructors
- Class Properties
- Return Statements
- Inheritance
- Abstarction
- Polymorphism
- Encapsulaion
- Creating Wizard Class
- Wrapper Class
- Usage Of properties in sfdc

### **APEX**

## ***Collections***

- List class-Scenarios
- Set class-Scenarios
- Map class-Scenarios
- Working with List of Lists and Map of Lists, Sets of Sets and Map of Sets
- Advanced Example Programs

## ***SOQL And SOSL***

- Overview on SOQL,SOSL
- Fetching Records on VF Using SOQL
- Inserting Records from VF to Salesforce
- Debug Logs
- Static SOQL
- Dynamic SOQL
- Relational SOQL
  - Parent to child
  - Child to parent
- Aggregate clause in SOQL
- Creating Interfaces Using SOSL
- GoverningLimits on Apex
- RealTime Project Scenarios

## ***DML Operations***

- Dml Statements Vs Database Class Methods
- Database DML Operations
- Insert Statement
- Update Sattements
- Upsert Statement
- Delete Statements
- Undelete Statements
- Merge Statements
- Rollback operations
- SavePoint In DML
- Realtime Rroject Scenarios

## ***Controllers In APEX***

- Standard Controller
- Standard Set Controller
- Custom Controller
- Controller Extensions

## ***Schema Programming***

- Objects
- fields
- Selected Options

## ***Email Service Using Apex Class***

- Overview Of Email Sending
- Outbound Email Service

- Inbound Email service
- Email Service Using Templates
- Sending PDF Attachments
- Sending VF Attachments
- Mass Email Message Sending
- Creating Methods for Sending Emails
- Syntax for Send Emails
- Realtime Scenarios

### ***Custom Setting***

- List Custom setting
- Hierarchical Custom Setting
- Custom Metadata Types
- Custom Labels
- Translation Workbench
- Difference between Custom Settings vs Custom Meta Data vs Custom Labels

### ***Asynchronous APEX***

- Batch Apex
  - start()
  - execute()
  - finish() methods
  - BatchableContext
  - Debug Batch Apex
  - QueryLocator
  - GetQueryLocator
  - Sending Email From finish Method
  - Implementing Database.AllowCallouts
  - Implementing Database.Stateful
  - Customising the Batch size as per the needs
  - Invoke Batch from Batch
  - Invoking future from Batch
- Future Method
  - Limitations in Future methods
- Queueable Apex
- Scheduled Apex
  - Implementation
    - Invoking Future Method from Schedule
    - Schedule Using Point and click
    - Schedule Using Code Customization
- Difference between Future methods and Queueable Apex
- Real Time Scenarios

### ***Apex Triggers***

- Overview On Triggers
- Trigger Events
  - Before Triggers
  - After Triggers

### ***Before***



- insert
- update
- delete

### **After**

- insert
- update
- delete
- undelete
- Trigger Context Variables
  - Trigger.New
  - Trigger.Old
  - Trigger.NewMap
  - Trigger.OldMap
  - Trigger.isBefore
  - Trigger.isAfter
  - Trigger.isInsert
  - Trigger.isUpdate
  - Trigger.isDelete
  - Trigger.isUndelete

- Order of Execution
- Recursive Triggers
- Validation Rule with Trigger
- Workflow with Trigger
- Invoking Batch Apex,callouts from trigger
- Invoking Schedule,Future Methods from Trigger
- RealTime Scenarios on Each Topic

### **Test Class**

- Overview on Test classes
- StartTest, StopTest
- Assert Statements
  - System.Assert()
  - System.AssertEquals()
  - System.AssertNotEquals()
- Execute Test classes as a Specific user
- testSetup in Test classes
- seeAllData=true
- Governor limits in Test Classes
- Handling Mixed DML in Test Classes
- Test Class on Apex class, Triggers and Async Apex

### **Programmatic Integration**

### **Integration and WebServices**

- Introduction to Integration and WebServices
- What is XML
- What is REST API
- REST API vs XML
- Understanding JSON
- JSON Class, Generator Class, Parser, Serialization
- JSON Deserialization

- JSON.deserializeUntyped()
- Generating Apex classes from Web Services
- Integration Salesforce with 3rd party applications
- HTTP Callouts
- Creating APEX WSDL File
- Integration Using SOAP API
- Integration Using REST API
- Real Time Scenarios

## **Salesforce Lightning Web Component [LWC]**

### **Basics of JavaScript**

- Few fundamentals
- A little about versions
- Creating variables using var, let and const
- Lexical Grammar
- DataTypes in JavaScript
- Object Type in JavaScript
- Regular Function, Function Expression, Named function expressions and Arrow Functions
- Arrow Functions
- Destructuring Objects & Arrays
- All about Loops
- What's Variable & Function Hoisting?
- Rest Operator, Spread Operator & Differences
- Everything you need to know about Arrays
- Immediately Invoked Function Expressions [IIFE]
- this keyword in JavaScript
- continue and break
- Map Object in JavaScript
- Set Object in JavaScript
- Event Listeners in JavaScript
- A few things about Promises
- Things to know about Async-Await

### **Introduction & hands on with LWC**

- Setting up the Development Environment
- Understanding Folder Structure
- Modules in ES6 and LWC
- Data Binding
- Decorators for properties
- Data flow in Lightning Web Components
- Setter and Getter methods
- Iterators in LWC
- Invoking methods on child components
- Coding Challenge #1 Building a basic Notepad App
- All about Slots
- Lifecycle Hooks
- Hooks in LWC vs Renderer in Aura Components
- Shadow Dom Web Standard

## Communicate with Events

- How to dispatch and handle events
- How Event Retargeting works?
- Event Propagation in JavaScript
- Event bubbling in child and parent components
- All Event propagation scenarios
- Programmatically handle the events
- Publish-Subscribe events

## Work with Salesforce Data

- Introduction
- Putting the base component lightning-record-edit-form to use.
- Using lightning-record-view-form and lightning-record-view-form
- Using getRecord() Adapter
- Handlers in LDS base components
- Override save functionality using base components
- Using createRecord() method to create a record
- Using updateRecord() method to update a record
- getRecord() alternative syntax

## LWC & Apex

- How to invoke Apex method from Web Component
- How to pass parameters when Apex method is invoked
- Invoke Apex method imperatively
- Send complex Data Types as params to Apex methods
- Continuation in Apex

## Lightning Message Service

- Creating Lightning Message Channel
- Using LMS in LWC
- Using LMS in Aura
- Using LMS in Visualforce
- Using LMS in all the three entities in together

## Lightning Web Components and Aura Components Working Together

- Configure the Web Component via xml file
- Expose Web Component to other platforms
- Web Components & Aura Components
- Send data from Web Components to Aura Components using events

## Navigation in LWC

- Introduction to Navigation Mixin
- Navigation to different destination from a Web Component
- Navigation to another LWC component (using Aura)

## Testing in LWC

- Introduction to Jest Framework
- Understanding matchers and other basic blocks of a test case
- Writing test cases for a couple of scenarios