Phase 7: Integration & External Access

1. Named Credentials

◈ **Use Case:**

Named Credentials simplify authentication for external API calls.
In this project, a Named Credential called **LoanCreditService** was created to securely connect Salesforce with an external **Credit Scoring API** used during loan approval.

Example Configuration:

- Label: Loan Credit Service

- URL: https://api.creditcheck.com

- Authentication: Named Principal

- Identity Type: Named Principal

- Authentication Protocol: Password Authentication

📷 **Screenshot:**
Setup → Security → Named Credentials → *LoanCreditService*
(Label: Figure 7.1 – Named Credential Setup for Credit Service)

⚙ **2. External Services**

◈ **Use Case:**

External Services allow Salesforce to integrate with APIs using **Schema Definitions (Swagger files)**.
We simulated this with a **mock API** that retrieves loan applicant's credit score.

Steps:

1. Created an API Schema for /getCreditScore

2. Registered it in External Services

3. Invoked the operation through Flow to auto-fetch credit score

📷 **Screenshot:**
Setup → External Services → *Credit Score API Service*
(Label: Figure 7.2 – External Service Registration)

```
rce-app > main > default > classes > 🐟 CreditScoreCallout.cls > ...
 1    public with sharing class CreditScoreCallout {
 2        @future(callout=true)
 3        public static void getCreditScore(String applicantName) {
 4            HttpRequest req = new HttpRequest();
 5            req.setEndpoint('callout:CreditScoreService/posts/1'); // [
 6            req.setMethod('GET');
 7
 8            Http http = new Http();
 9            HttpResponse res = http.send(req);
10
11            if(res.getStatusCode() == 200){
12                System.debug('Response: ' + res.getBody());
13            } else {
14                System.debug('Failed with status: ' + res.getStatus());
15            }
16        }
17    }
18    |
```

SETUP > NAMED CREDENTIALS
CreditScoreAPI_ex   [Edit] [Delete]

Label
CreditScoreAPI_ex

Name
CreditScoreAPI_ex

Authentication Protocol
Custom

Managed Package Access

Created By Namespace ⓘ

SETUP > NAMED CREDENTIALS
CreditScoreAPI   [Edit

Label
CreditScoreAPI

Name
CreditScoreAPI_ex

URL
https://jsonplaceholder.typicode.com

Enabled for Callouts
(✓)

Authentication

External Credential
CreditScoreAPI_ex

Client Certificate
SelfSignedCert_22Sep2025_125301

Callout Options

Generate Authorization Header ⓘ
☑

Allow Formulas in HTTP Header ⓘ

3. Web Services (REST API)

◈ Use Case:

A **custom Apex REST API** was developed to expose loan data to external systems (e.g., a banking portal or mobile app).

Sample Code:

```
@RestResource(urlMapping='/loanapi/*')

global with sharing class LoanAPI {

    @HttpGet

    global static Loan_Application__c getLoanDetails() {

        RestRequest req = RestContext.request;

        String loanId = req.params.get('id');

        return [SELECT Id, Name, Loan_Amount__c, Loan_Status__c

            FROM Loan_Application__c WHERE Id = :loanId LIMIT 1];

    }

}
```

4. Callouts (REST Integration)

◈ **Use Case:**

Salesforce makes a **REST callout** to a third-party Credit Score API during loan approval.

Example Apex Code:

```
public class CreditScoreCallout {

    @future(callout=true)

    public static void getCreditScore(String applicantId) {

        HttpRequest req = new HttpRequest();

        req.setEndpoint('callout:LoanCreditService/getCreditScore');

        req.setMethod('GET');

        Http http = new Http();

        HTTPResponse res = http.send(req);

        System.debug('Response: ' + res.getBody());

    }

}
```