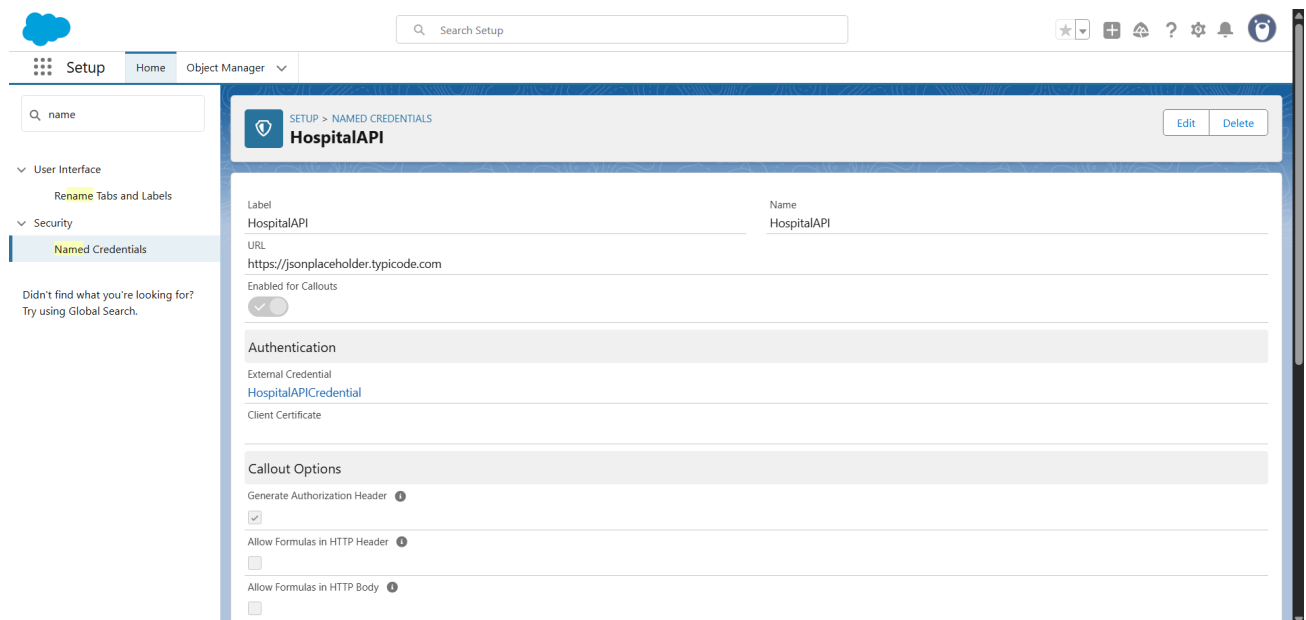


# Phase 7 — Integration & External Access

## 1) Named Credentials

- Created a Named Credential called HospitalAPI pointing to <https://jsonplaceholder.typicode.com>.
- Linked it with an External Credential and mapped access through a permission set.
- Enabled secure callouts without hardcoding endpoints in Apex.

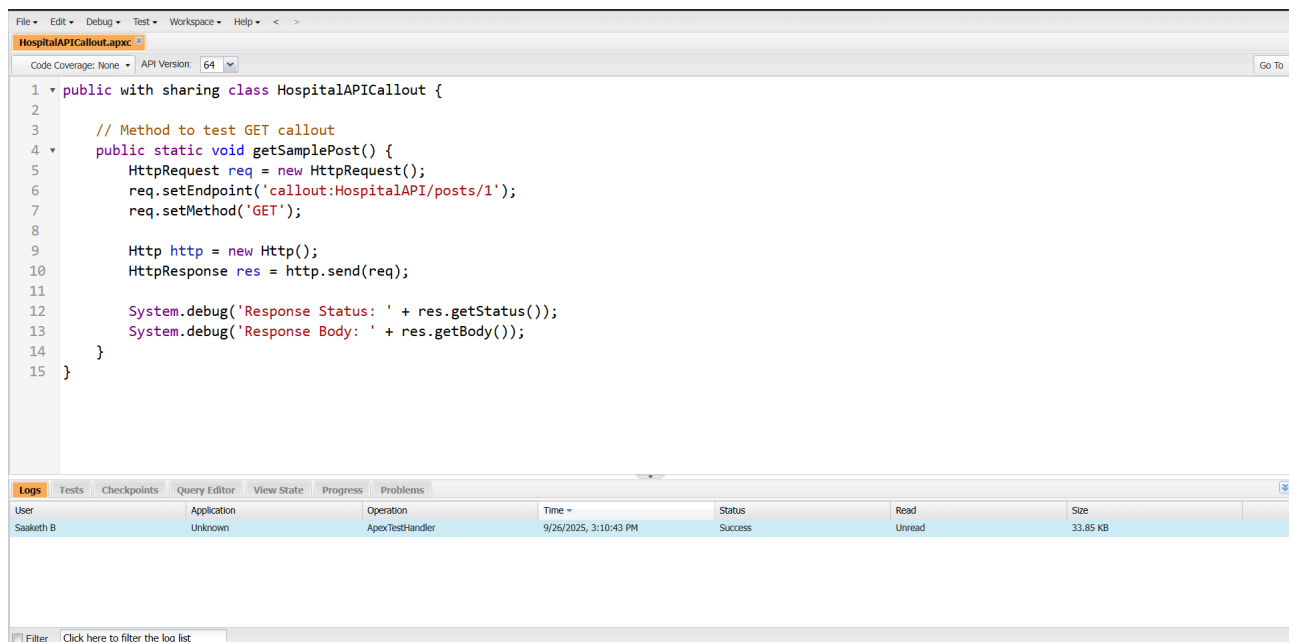


## 2) External Services

- External Services allow APIs defined in OpenAPI schemas to be imported for declarative use.
- Documented as an available approach for future integrations.
- Not required in this project.

### 3) Web Services (REST / SOAP)

- Implemented a REST Web Service callout using Apex (**HospitalAPIDemo**) with the Named Credential.
- Verified JSON response from the endpoint **callout:HospitalAPI/posts/1** in Developer Console logs.
- SOAP services documented for future reference but not used here.



The screenshot displays the Salesforce IDE interface. The top section shows the Apex class `HospitalAPICallout.apxc` with the following code:

```
1 public with sharing class HospitalAPICallout {
2
3     // Method to test GET callout
4     public static void getSamplePost() {
5         HttpRequest req = new HttpRequest();
6         req.setEndpoint('callout:HospitalAPI/posts/1');
7         req.setMethod('GET');
8
9         Http http = new Http();
10        HttpResponse res = http.send(req);
11
12        System.debug('Response Status: ' + res.getStatus());
13        System.debug('Response Body: ' + res.getBody());
14    }
15 }
```

The bottom section shows the 'Logs' tab with a single log entry:

User	Application	Operation	Time	Status	Read	Size
Saaketh B	Unknown	ApexTestHandler	9/26/2025, 3:10:43 PM	Success	Unread	33.85 KB

### 4) Callouts

- Configured callouts through Named Credentials for secure and simplified integration.
- Verified successful connection by executing Apex and reviewing HTTP 200 response.
- Demonstrated that callouts are functional and reusable across Apex and Flows.

File • Edit • Debug • Test • Workspace • Help • < >		
HospitalAPICallout.apxc HospitalAPIDemo.apxc Log executeAnonymous @9/26/2025, 3:30:37 PM		
Execution Log		
Timestamp	Event	Details
15:30:37:072	USER_DEBUG	[1]DEBUG{
15:30:37:000	USER_DEBUG	"userId": 1,
15:30:37:000	USER_DEBUG	"id": 1,
15:30:37:000	USER_DEBUG	"title": "sunt aut facere repellat provident occaecati excepturi optio reprehenderit",
15:30:37:000	USER_DEBUG	"body": "quia et suscipit\nsuscipit recusandae consequuntur expedita et cum\nreprehenderit molestiae ut ut quas totam\nnostrum rerum est autem sunt rem eveniet architecto"
15:30:37:000	USER_DEBUG	}
<input type="checkbox"/> This Frame <input type="checkbox"/> Executable <input checked="" type="checkbox"/> Debug Only <input type="checkbox"/> Filter <a href="#">Click here to filter the log</a>		
<input checked="" type="checkbox"/> Logs <input type="checkbox"/> Tests <input type="checkbox"/> Checkpoints <input type="checkbox"/> Query Editor <input type="checkbox"/> View State <input type="checkbox"/> Progress <input type="checkbox"/> Problems		
User	Application	Operation
Saaleth B	Unknown	/services/data/v64.0/tooling/executeA...
Saaleth B	Unknown	ApexTestHandler
Saaleth B	Unknown	ApexTestHandler
		Time
		9/26/2025, 3:30:37 PM
		9/26/2025, 3:30:15 PM
		9/26/2025, 3:10:43 PM
		Status
		Success
		Success
		Success
		Read
		Unread
		Unread
		Size
		4.69 KB
		33.87 KB
		33.85 KB
<input type="checkbox"/> Filter <a href="#">Click here to filter the log list</a>		

## 5) Platform Events

- Platform Events provide asynchronous, event-driven messaging across systems.
- Suitable for scenarios such as notifying external systems of new appointments.
- Not required for current project scope.

## 6) Change Data Capture

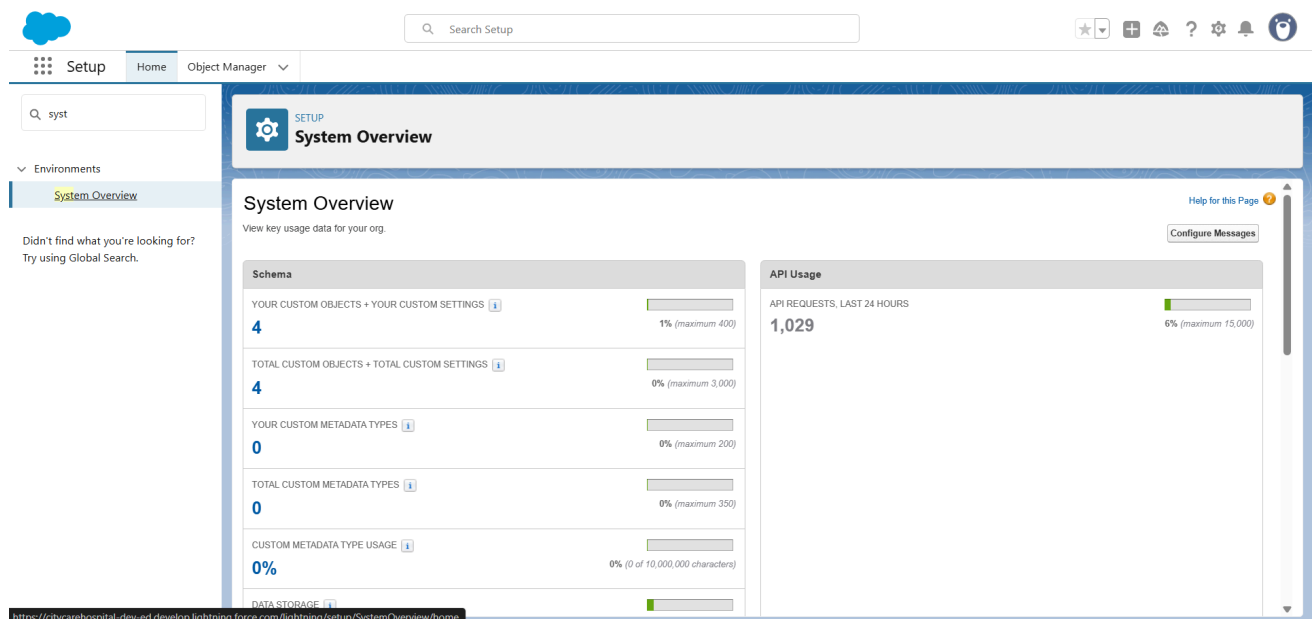
- Enables real-time streaming of record changes to external subscribers.
- Relevant for syncing patient or appointment data with external systems.
- Not implemented in this phase.

## 7) Salesforce Connect

- Allows access to external data sources as external objects inside Salesforce.
- Suitable for integrating large external datasets such as EHR or insurance data.
- Not implemented as callouts covered project needs.

## 8) API Limits

- Documented Salesforce daily API limits (e.g., 15,000/day for Developer Edition).
- Verified that current usage fits well within the available quota.
- No configuration changes required.



## 9) OAuth & Authentication

- Salesforce supports OAuth authentication flows for secure integrations.

- Current implementation used “No Authentication” as the external API was public.
- OAuth documented for future use with protected APIs.

## **10) Remote Site Settings**

- Remote Site Settings whitelist external endpoints for callouts.
- Modern integrations rely on Named Credentials instead.
- Documented for completeness as a legacy option.