# **Project HealthConnect 360**

**Phase 7: Integration & External Access** 

HealthConnect 360 Project

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#### **About Phase 7**

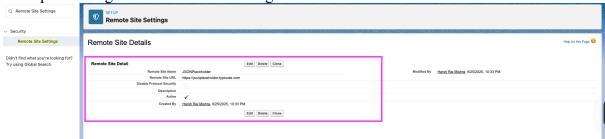
Phase 7 focuses on enabling HealthConnect 360 to connect, communicate, and synchronize data with external systems and within Salesforce itself. This integration layer ensures that patient data and clinical workflows are realtime, responsive, and scalable across varied platforms and services.

In this phase, the architecture transitions from standalone data management to event-driven and service-oriented integration, covering API callouts, event subscriptions, and external system connections. This foundation supports future expansions such as automated care coordination, external data federation, and advanced telemetry.

### Web Services (REST/SOAP)

- Remote Site Settings ensure that Salesforce is allowed to call external URLs securely.
- Must whitelist external API endpoints before apex callout code can successfully execute.

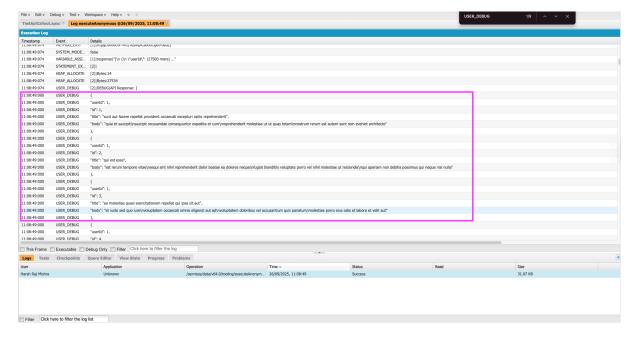
• Example: Configured Remote Site Setting for JSONPlaceholder API URL.



#### **Callouts**

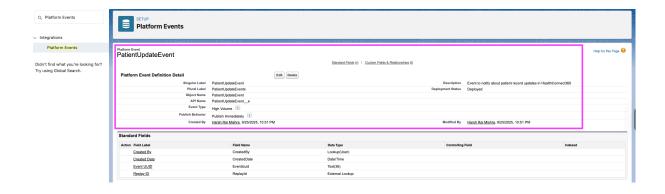
- Implemented robust HTTP callouts using Apex HTTP classes.
- Published real test events and tracked responses synchronously.
- Laid groundwork for real-time external data fetch and update pipelines.

```
File * Edit * Debug * Test * Workspace * Help * <
Code Coverage: None 
API Version: 64
  public with sharing class TestApiCallout {
   public static String getPosts() {
               httpRequest req = new HttpRequest();
req.setEndpoint('https://jsonplaceholder.typicode.com/posts');
                req.setMethod('GET');
                Http http = new Http();
                HttpResponse res = http.send(req);
  8
 10 ▼
                if (res.getStatusCode() == 200) {
                     return res.getBody();
                } else {
  12 ▼
                     return 'Error: ' + res.getStatusCode();
  13
           }
  15
  16 }
```



# **Platform Events**

- Created custom Platform Events for patient updates (PatientUpdateEvent).
- Designed Apex triggers to asynchronously process event data.
- Tested event publishing and confirmed subscription handling in Salesforce logs.





### **Change Data Capture**

- Outlined CDC enablement for core patient and appointment objects.
- CDC planned as automatic event trigger on record changes.
- Set stage for real-time data sync and integration workflows.

```
AppointmentTrigger.apxt | AppointmentHandler.apxc | AppointmentHandlerTest.apxc | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrigger.apxt | Log executeAnonymous @26/09/2025, 11:54:37 | TestRun @ 1:18:39 am | PatientUpdateEventTrig
```

#### **Salesforce Connect**

- Introduced Salesforce Connect concept for external data integration.
- Prepped for using external objects to reflect live clinic and healthcare system records.
- Facilitates seamless external system integration without data duplication.

# **Summary**

Phase 7 equips HealthConnect 360 with critical integration capabilities essential for modern healthcare ecosystems. External API communication and native Salesforce event systems create a unified, responsive patient data platform. Future improvements include CDC and Salesforce Connect deployments to enhance data consistency and access.