

# Phase 7 Report: Integration & External Access

## 1. Introduction

This phase focuses on enabling **integration with external systems** and providing **secure access to external users**.

It ensures that the Event Registration App can **exchange data with other applications** and allow **external stakeholders** (like event attendees) to interact with Salesforce.

---

## 2. Integration Requirement

**Scenario:**

- External systems or applications may need to:
  - Fetch **event details**
  - Register attendees via a web portal
  - Update event or attendee information

**Integration Methods:**

- **Salesforce APIs (REST / SOAP)** for programmatic access
  - **Experience Cloud / Salesforce Sites** for external user access
- 

## 3. External Access Setup

- Enabled **Salesforce Experience Cloud** site (Community) for external users
  - Created **external user profile / permission set**
  - Configured **object and field-level access** for security
  - Allowed external users to **register for events** via portal
- 

## 4. Salesforce APIs

- Enabled **API access** in Salesforce org
- Created **Connected App** (if required) for OAuth authentication
- Used **REST API** to:
  - Retrieve Event list
  - Create new Attendee record

**Example API Endpoint:**

```
POST /services/data/vXX.X/subjects/Attendee__c/  
{  
  "Name": "John Doe",  
  "Email": "john@example.com",  
  "Event__c": "a0BXXXXXXXXXXXXX"  
}
```

---

## 5. Connected Apps (Optional)

- If integrating with **third-party apps**, created **Connected App**
  - Configured **OAuth scopes**: API, refresh token, full access
  - Provided **client ID and secret** for secure authentication
- 

## 6. Testing & Validation

- Verified **external registration via portal**
  - Confirmed **email alerts** work for externally created attendees
  - Tested **REST API endpoints** using Postman
  - Checked **user access permissions** to ensure security
- 

## 7. Conclusion

- External access and integration are configured successfully
- Ensures **secure registration for attendees** outside Salesforce
- Allows **third-party applications** to interact with Salesforce
- Lays foundation for **data management, reporting, and dashboards** in upcoming phases