

Salesforce Project Phase-7

Phase 7: External Integrations(Future Scope)

Current Status: The Student Internship Tracking & Recommendation System is **internal**, meaning all data, processes, and workflows are fully managed within Salesforce. At this stage, there is **no requirement for external APIs or third-party integrations**.

Future Considerations (if the project becomes external):

- **Named Credentials:**

Securely store authentication details (username, password, OAuth tokens) for connecting to external internship portals or HR systems. Simplifies credential management and ensures secure callouts.

- **External Services:**

Allows declarative connections to third-party REST APIs by importing OpenAPI/Swagger schemas. Automatically generates Apex actions for flows and processes, reducing manual coding.

- **Web Services (REST/SOAP):**

Enables Salesforce to consume external APIs to fetch or update internship or company data in real-time. Apex classes handle callouts, responses, and error handling.

- **Callouts:**

Salesforce can send HTTP requests to external endpoints (e.g., company internship databases). Callouts can be synchronous or asynchronous and require proper security via Named Credentials or Remote Site Settings.

- **Platform Events:**

Publish events in Salesforce that external systems (like a company's HR system) can subscribe to, enabling real-time notifications when students apply for internships.

- **Change Data Capture (CDC):**

Tracks changes (create, update, delete) in Salesforce records so external systems can stay synchronized with student or application data.

- **Salesforce Connect:**

Access external objects (e.g., internship listings or student resumes stored elsewhere) in real-time without duplicating data. These objects behave like standard Salesforce objects in reports, dashboards, and Lightning pages.

- **API Limits:**

Important to monitor usage when integrating with external systems to avoid exceeding daily or concurrent limits and ensure reliable operation.

- **OAuth & Authentication:**

External applications can securely access Salesforce data using OAuth 2.0 tokens, maintaining secure and standardized authorization.

- **Remote Site Settings:**

Ensure all external endpoints are trusted, allowing safe callouts while protecting Salesforce org security.

Conclusion:

For now, Phase 7 is **not applicable** as the project is entirely internal. The points above provide guidance for future external integrations, such as connecting to company internship portals or student HR systems.