

Phase 7 — Integration & External Access

1. Named Credentials

- **What it is:** A secure way to store authentication details (like API endpoints, usernames, passwords, OAuth tokens).
- **In your project:** If you integrate with an **external Resume Parsing API** or a **Job Portal API** (e.g., **LinkedIn, Naukri, Indeed**), you would use Named Credentials so Apex callouts don't need hard-coded credentials.

Resume_Parsing_Credential to securely call an external resume parsing service.

2. External Services

- **What it is:** Lets Salesforce connect to external APIs using declarative (no-code) setup via Schema/Swagger files.
- **In your project:** Suppose you want to connect to a **Background Verification service** or **Credit Check API** for candidates. Instead of writing Apex callouts, you can register it as an **External Service** and call it from **Flow**.

3. Web Services (REST/SOAP)

- **What it is:** Salesforce can consume external REST/SOAP APIs or expose its own.
- **In your project:**
 - **Consume:** Use REST to fetch **job postings** from a partner portal.
 - **Expose:** Allow third-party portals (like your company's careers site) to submit **Applications** directly into Salesforce via a REST API you create.

4. Callouts

- **What it is:** Outbound requests from Salesforce to external systems.
- **In your project:**
 - Call an **AI resume parser** when a candidate uploads a resume.
 - Call an **email verification API** to validate candidate email addresses.

5. Platform Events

- **What it is:** Salesforce event-driven architecture (publish-subscribe).
- **In your project:**
 - When an **Application Status = Hired**, publish an event → HR system subscribes and auto-generates an Offer Letter.
 - When **Interview Scheduled**, trigger a platform event that notifies external calendar systems (Google Calendar, Outlook).

6. Change Data Capture (CDC)

- **What it is:** Real-time streaming of record changes (insert, update, delete).
- **In your project:**
 - If a candidate's application status changes (e.g., *Shortlisted* → *Hired*), CDC can stream this event to external systems (like HR payroll system or Slack notifications).

7. Salesforce Connect

- **What it is:** Lets you connect external databases/data sources without storing them in Salesforce (data stays external but is viewable in Salesforce).
- **In your project:**
 - Connect to an external **HRMS database** or **Employee Onboarding system** so recruiters can view onboarding details **inside Salesforce** without duplication.

8. API Limits

- **What it is:** Salesforce has daily API call limits (depends on edition).
- **In your project:**
 - If resumes are parsed via an external API for every application, you must design with limits in mind (e.g., batch processing, Queueable jobs).
 - Avoid hitting limits if multiple job portals are integrated.

9. OAuth & Authentication

- **What it is:** Secure authentication standard for integrations.
- **In your project:**
 - If a **job portal** or **HR app** wants to access Salesforce data (like candidate status), they authenticate via OAuth.
 - If you expose Salesforce REST API, you'd require OAuth login for security.

10. Remote Site Settings

- **What it is:** Whitelist external endpoints before making callouts.
- **In your project:**
 - If you make callouts to <https://resumeparser.com/api>, you must add it to **Remote Site Settings**.
 - Without it, Salesforce will block the callout for security reasons.