Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	19 February 2026
Team ID	LTVIP2026TMIDS47361
Project Name	**Importing & Securing Data in ServiceNow**
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2
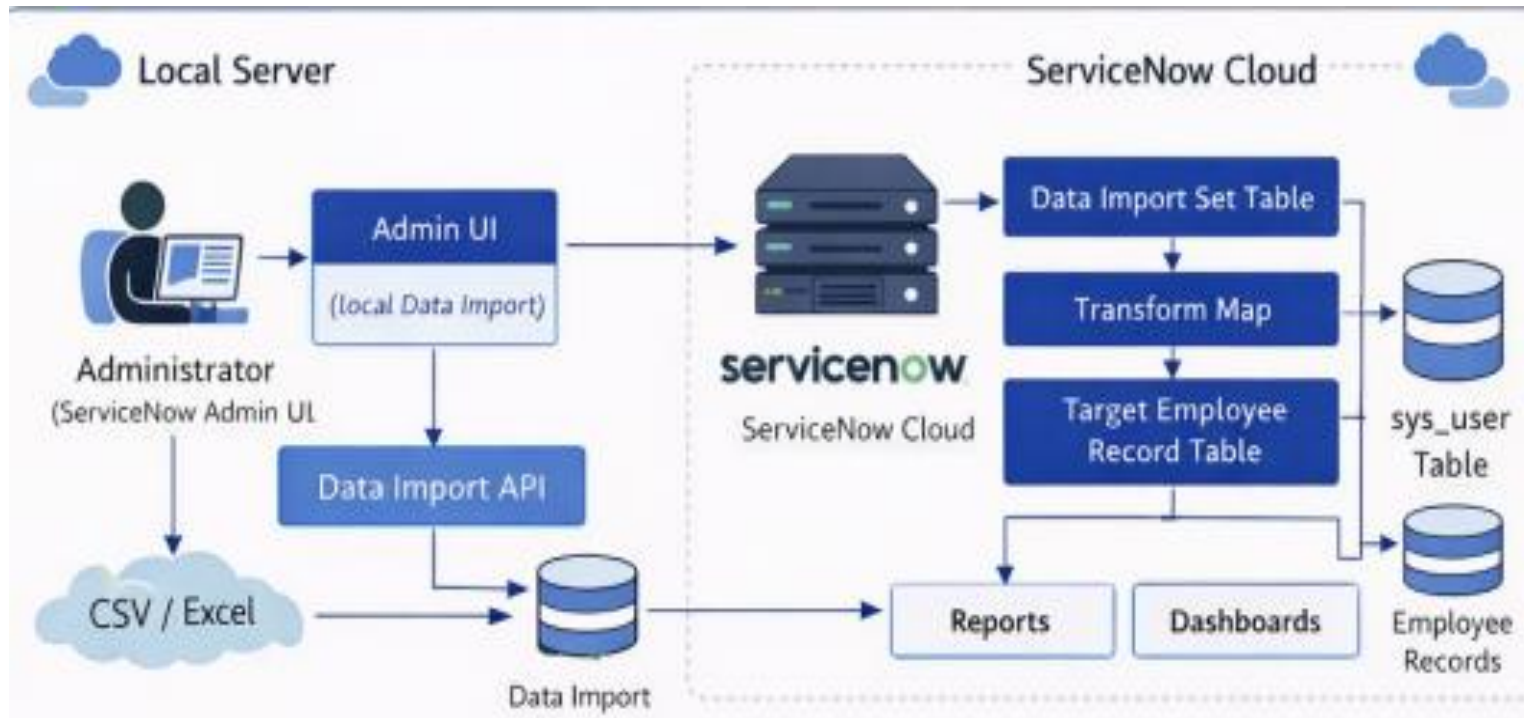
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web-based UI for Admin, HR, Manager and Employee interaction.	ServiceNow Web UI
2.	Application Logic-1	Import Set processing and data validation.	ServiceNow Import Sets
3.	Application Logic-2	Data mapping and transformation logic.	Transform Maps
4.	Application Logic-3	Business Rules for auto-populating department and validations.	Server-side JavaScript (Glide API)
5.	Database	Stores employee records and imported data.	ServiceNow Tables (sys_user, Custom Tables)
6.	Cloud Database	Managed database service within ServiceNow cloud platform.	ServiceNow Cloud Infrastructure
7.	File Storage	Storage of uploaded CSV files.	ServiceNow Attachment Storage
8.	External API-1	Future integration with HR Systems.	REST API
9.	Machine Learning Model	Not applicable in current scope (Future enhancement).	N/A
10.	Infrastructure (Server / Cloud)	Application deployed on cloud-based ServiceNow platform.	Cloud (SaaS Model)
11.	User Interface	Web-based UI for Admin, HR, Manager and Employee interaction.	ServiceNow Web UI

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Uses built-in ServiceNow platform capabilities.	Technology of Opensource framework
2.	Security Implementations	Role-based access control, ACL rules, field-level security.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Cloud-based SaaS architecture supporting high data volume.	ServiceNow Cloud Architecture
4.	Availability	High availability ensured by ServiceNow cloud infrastructure.	Cloud Data Centers
5.	Performance	Efficient bulk data processing and optimized reporting.	Import Sets, Indexed Tables