REQUIREMENTANALYSIS

Solution requirement (functional & Non functional)

Team ID	LTVIP2025TMID31005
Project Name	Importing and securing Data in service
	now

Functional Requirements:

following are the functional requirements of the proposed solution

FR No	Functional requirements	Sub requirement	
FR-1	Tables	Create table set label to employee training records	
		insert rows training name,	
		completion date, status and	
		department.	
FR-2	Importing data	Open ServiceNow Search	
		for System Import Sets	
		Select Load Data Upload	
		file (with fields: Training	
		Name, Completion Date,	
		Status, Employee) Set	
		Label to Employee	
		Training Set Name to	
		u_employee_training.	

FR-3	Using Dot walking to access	In ServiceNow, navigate to
	employee department information	All > System Definition>
		List Layouts, search for
		Customer Orders, use dot-
		walking to add the
		Employee Department
		field, select it, save
		changes, and the field will
		appear in the list view.
FR-4	Access control list (ACL)	Create ACL Define ACL
		for Employees Set
		Operation to Read.
FR-5	Roles	Create role: HR Manager
		Add to sys_user Assign
		role to Tables, Application,
		and Module Add HR
		Manager role to sys_user
		Now HR Manager can
		view employee department
		info in Employee Training
		Records list view.
FR-6	Result	Impersonate sys_user
		search Employee Training

Re	Records can view and edit	
fie	elds.	
In	mpersonate another user	
ca	cannot see the table.	

Non functional requirements:

Following are the non function requirements of the proposed solution

NFR N0	Non functional requirement	Description	
NFR-1	Usability	Ensures data import and	
		security processes in	
		ServiceNow are clear,	
		intuitive, and easy for	
		authorized users to manage	
		safely.	
NFR-2	Security	Ensure secure data import by	
		enforcing access controls,	
		encryption, and audit logging	
		to protect data integrity,	
		confidentiality, and	
		compliance during the import	
		process.	
NFR-3	Reliability	Ensure reliable data import	
		by validating files, handling	
		errors gracefully, and	

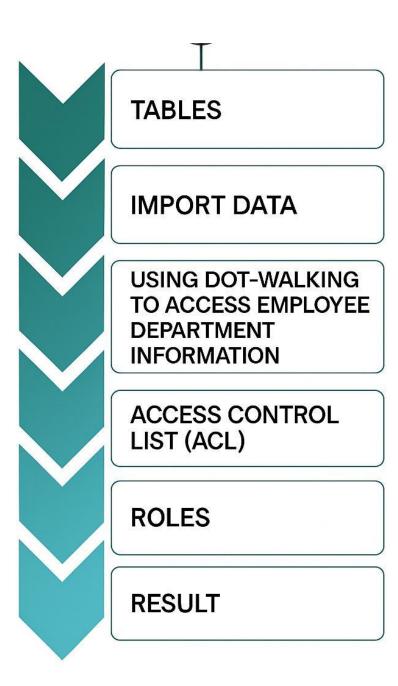
		maintaining consistent data availability throughout the process.	
NFR-4	Performance	Ensure fast, efficient data import and secure processing in ServiceNow, minimizing delays and ensuring system responsiveness during large data operations. Ensures that data import and	
NFR-5	Availability		
		security features in ServiceNow are reliably accessible, minimizing downtime and ensuring continuous, secure operations.	

Data flow diagram: A Data Flow Diagram (DFD) is a simple visual tool that shows how data moves through a system. It outlines the input, processing, storage, and output of data, helping to understand and improve system workflows.

- Where data comes from (external sources)
- Where it goes (processes and storage)
- How it's transformed along the way

Uses:

- Show how data moves through a system from input communication output
- Break down complex processes into simpler, understandable components
- Enhance communication between technical teams and business stakeholders
- Aid in system design and development by mapping data processes clearly



Technology Stack: The image shows how data flows from a third-party system into the ServiceNow app, gets processed through import mechanisms, and ends up in the Incident Table, where it can trigger further actions or updates.

Third Party \rightarrow REST API \rightarrow ServiceNow

• Data is sent from a third-party system via REST API.

REST API → **Scheduled Import**

API data is captured by a scheduled import job.

Scheduled Import → Import Sets

• Data is loaded into temporary import tables.

Import Sets → **Transform Map**

• Data is transformed to match the format of the target tables.

Transform Map → **Incident Table**

• Transformed data is saved as incidents in ServiceNow.

Incident Table → **Triggered Actions**

• Actions (like alerts, updates) are automatically triggered.

Incident Table ← CMDB Tables

• Incidents are linked to Configuration Items (Cis) from the CMDB.

Service now architecture

