RequirementAnalysis

TeamID	LTVIP2025TMID28774
ProjectName	EducationalOrganizationUsingServiceNow

(a) SolutionRequirement

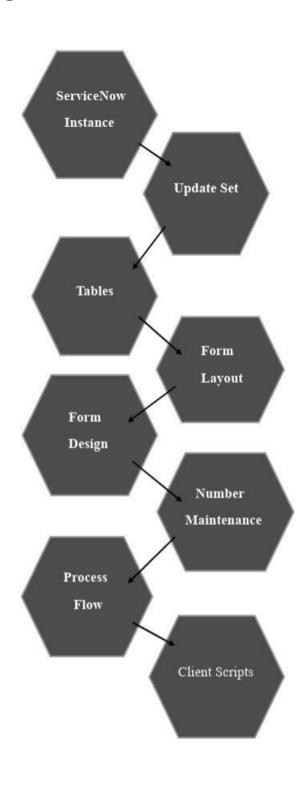
• FunctionalRequirements

FRNo	Functional Requirement	SubRequirement
FR-1	SettingUpServiceNowInstance	Setting up a ServiceNow instance involves creating a personal developer account on the
		ServiceNowDevelopersite andrequestingafree cloud-basedinstance.
FR-2	CreatingAUpdateSet	Update Sets are used in ServiceNow to capture and transfer configuration changes from one instance to another. This helps to track student admission management, attendance, and other educational processes efficiently within the ServiceNowplatform.
FR-3	CreatingATable	Tablesareusedtostorestudentrecordsina simple and organized manner.
FR-4	FormLayout	Formlayoutenablestheproperseparation of studentrecords into sections and highlights mandatory fields, ensuring organized data entry and completeness.
FR-5	FormDesign	Educationalorganizationprojectformdesignis essentialformanaginganddisplayingstudent, teacher, and service-related data.
FR-6	NumberMaintenance	Educational organization project, this feature is usedtoassignandmaintainuniqueidentifiersfor different records.
FR-7	ProcessFlow	Process Flow refers to the step-by-step sequence of tasks or actions that define how a particular function or service is carried out within the ServiceNow platform. Educational organization project, processflowshelp automateandmanage various operations like student admissions, staff onboarding, and service requests.
FR-8	ClientScripts	clientscriptsareusedtoensurecorrectdataentry and improve the usability of forms for students, teachers, and admins.

• Non-FunctionalRequirements

NFR No	Non-FunctionalRequirements	Description
NFR-1	Usability	ServiceNow enhances usability in educational institutions by providing a user-friendly and efficient digital platform forman aging various administrative and academic tasks.
NFR-2	Security	ServiceNow provides a secure platform for managing sensitive data in educational institutions.
NFR-3	Reliability	ServiceNow ensures high reliability for educational institutions by offering a stable, consistent, and trustworthydigitalplatformformanagingacademic andadministrative operations.
NFR-4	Performance	ServiceNow enhances theperformanceof educational organizations by optimizing administrative processes, improvingresponsetimes, and ensuring efficient management of a cademic operations.
NFR-5	Availability	Availabilityreferstohowconsistentlyandreliablythe ServiceNowplatformisaccessibletousers—students, faculty, and administrative staff—when needed.
NFR-6	Scalability	Scalability refers to the ability of the ServiceNow platform to grow and adapt as the needs of an educationalinstitutionincrease—whetherintermsof users,datavolume,orservices.

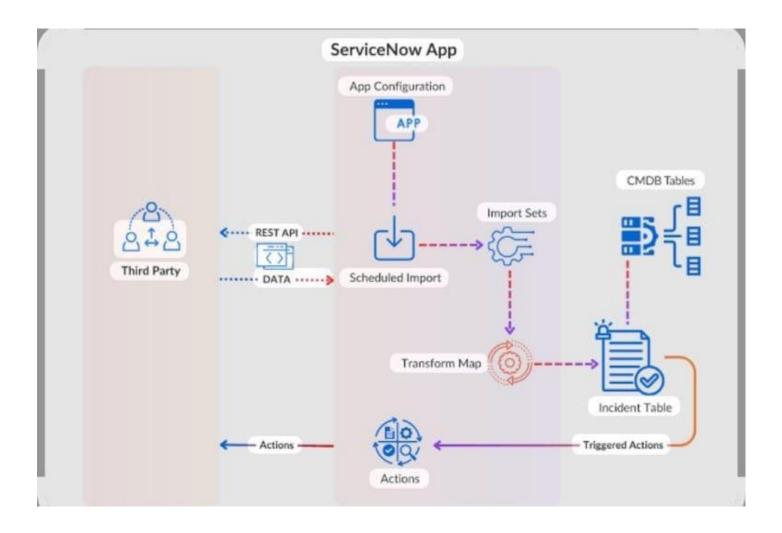
(b) DataFlowDiagram



(c) TechnologyStack

A technology stack is a combination of software tools, programming languages, frameworks, and technologies used to build and run an application or project. The technology stack of Service Now is a blend of proprietary and standard technologies that support its cloud-based, enterprise service management platform.

ArchitectureofServiceNow:



The architecture of ServiceNow is designed as a multi-instance, cloud-based platform that ensures scalability, flexibility, and security. It is structured into several key layers, beginning with the User Interface layer, which provides users with access through web browsers, mobile apps, and service portals.