

## REQUIREMENT ANALYSIS TECHNOLOGY STACK TEMPLATES

<b>Date</b>	<b>2 November 2025</b>
<b>Team ID</b>	<b>NM2025TMID03847</b>
<b>Project Name</b>	<b>Educational Organisation using Service Now</b>
<b>Maximum Marks</b>	<b>4 Marks</b>

### Technology Stack Templates

<b>Component</b>	<b>Technology / Tool Used</b>	<b>Purpose</b>
<b>Platform</b>	ServiceNow	Cloud-based platform for workflow automation and data management
<b>Database</b>	ServiceNow Tables (MySQL backend)	Data storage and relational linking
<b>Frontend Scripting</b>	JavaScript (Client Scripts, UI Policies)	Validation, dynamic field control, and automation
<b>Backend Scripting</b>	GlideRecord, Business Rules	Database operations and logic implementation
<b>Integration</b>	REST APIs / ServiceNow Connectors	Integration with Salesforce data
<b>Workflow Automation</b>	Flow Designer / Process Flow	Automating state transitions and notifications
<b>Testing Environment</b>	ServiceNow Developer Instance	For building and testing modules safely

<b>Reporting</b>	ServiceNow Report Builder	Generating student and admission reports
<b>Security</b>	Role-based Access Control (RBAC)	Controls user permissions and protects data integrity

## Summary

The Requirement Analysis Phase provided a clear understanding of system expectations and design directions.

Through detailed user stories, functional breakdown, and architecture mapping, the analysis ensures the Educational Management System aligns with institutional needs.

This phase concluded that:

The system meets user expectations across administrative, academic, and student levels.

Functional and non-functional requirements are feasible within the ServiceNow environment.

The proposed architecture is scalable, secure, and performance-optimized.

The finalized requirements serve as the blueprint for the subsequent Design and Implementation Phases.