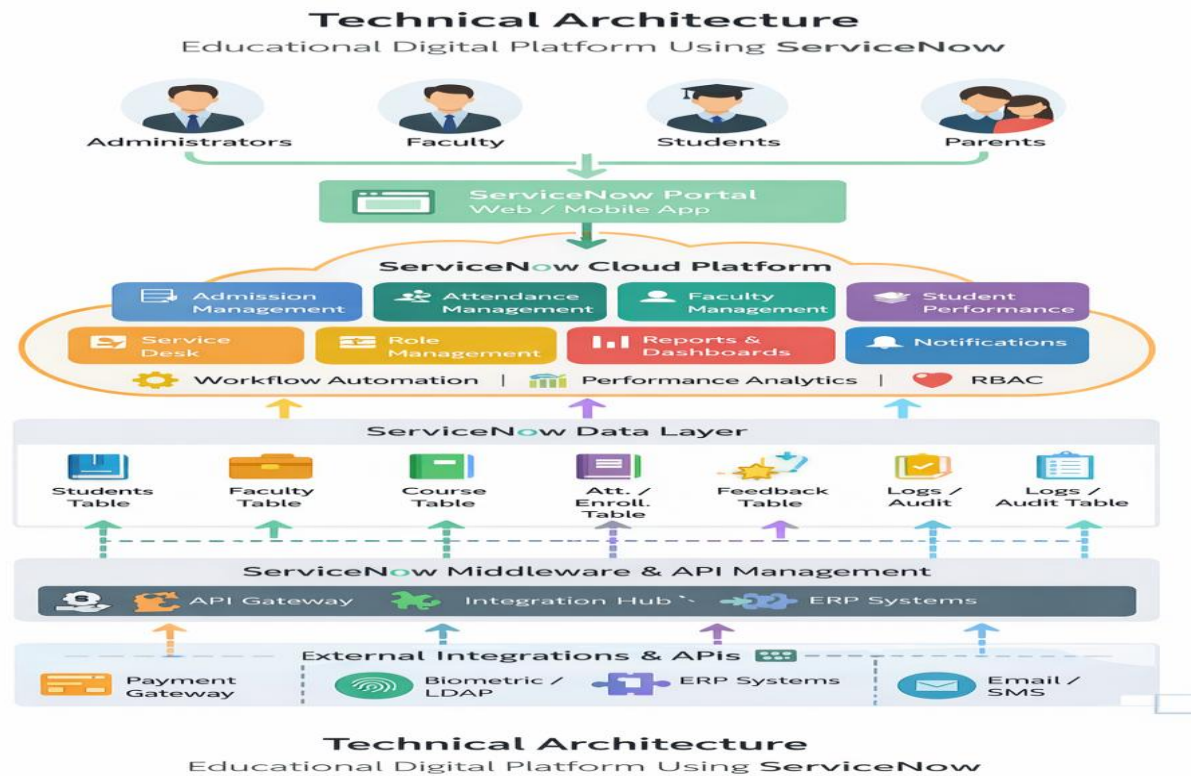


Project Design Phase-II Technology Stack (Architecture & Stack)

Date	27 febraury 2026
Team ID	LTVIP2026TMIDS60356
Project Name	Educational Organisation using Service now
Maximum Marks	4 Marks

Technical Architecture:



Example: Order processing during pandemics for offline mode

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web-based portal for students, faculty, and administrators	ServiceNow Service Portal, HTML, CSS, JavaScript
2.	Application Logic-1	Admission workflow processing and approval automation	ServiceNow Flow Designer, Business Rules
3.	Application Logic-2	Attendance tracking and performance management	ServiceNow Tables, Scripts, Scheduled Jobs
4.	Application Logic-3	Service desk for student queries and ticket management	ServiceNow Incident / Request Module
5.	Database	Centralized storage of student, faculty, and academic data	ServiceNow Cloud Database
6.	Cloud Database	Secure cloud-based hosting and data management	ServiceNow Cloud Platform
7.	File Storage	Store uploaded documents (admission forms, certificates)	ServiceNow Attachment System
8.	External API-1	For retrieving real-time economic indicators or exchange rates	World Bank API / IMF API
9.	External API-2	Region classification or country metadata	REST Countries API / GeoNames API
10.	Machine Learning Model	Generate dashboards and academic performance reports	ServiceNow Performance Analytics
11.	Infrastructure (Server / Cloud)	Deployment on cloud platform or Tableau Public	ServiceNow SaaS (Cloud-based)

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Built on cloud-based enterprise platform	ServiceNow SaaS Platform
2.	Security Implementations	Role-based access control, data encryption, secure login	ServiceNow RBAC, SSL/TLS, OAuth
3.	Scalable Architecture	Supports multiple campuses and increasing users	ServiceNow Cloud Infrastructure
4.	Availability	High availability with minimal downtime	Cloud Hosting with 99%+ uptime
5.	Performance	Optimized workflows and real-time dashboards	ServiceNow Low-Code Platform