

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

Date	26 June 2025
Team ID	LTVIP2025TMID20393
Project Name	Educational Organisation Using 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

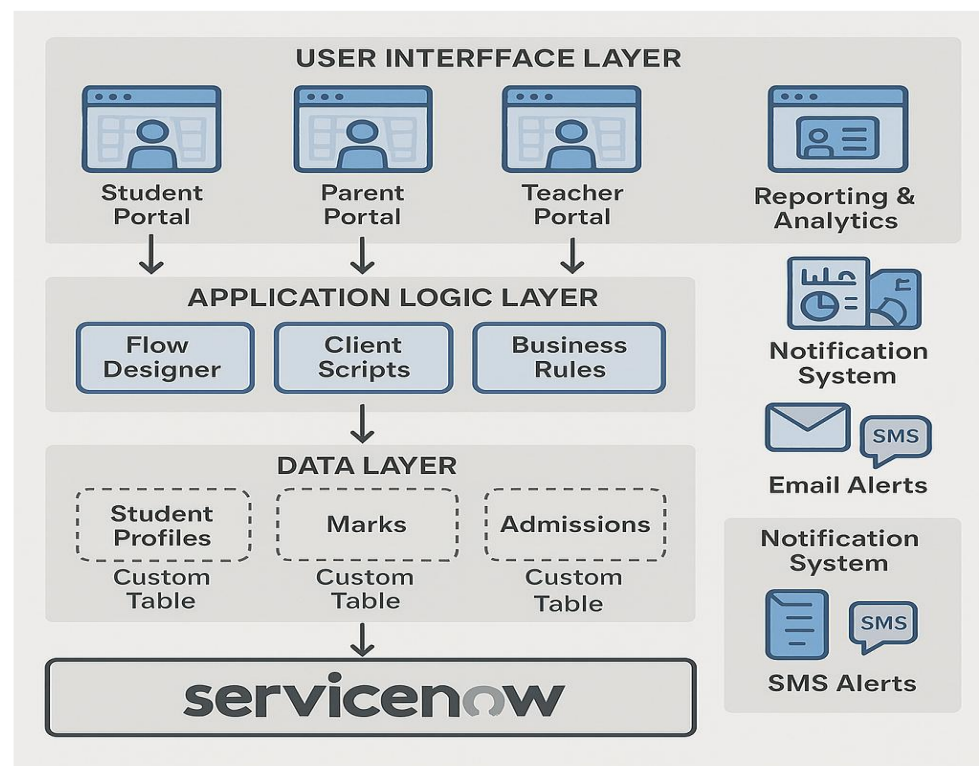


Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web-based portal for all users	ServiceNow UI Pages,c,java,javascript,HTML
2.	Application Logic-1	Registration, admission, progress tracking logic	ServiceNow Flow Designer, Client Scripts
3.	Application Logic-2	Notification and workflow automation	ServiceNow Notification Module
4.	Database	Structured data storage	ServiceNow Tables (CMDB, Custom Tables)
5.	Cloud Database	Cloud-hosted ServiceNow instance	ServiceNow Cloud Platform
6.	File Storage	Document uploads (if needed)	ServiceNow Attachments
7.	External API-1	Email/SMS Notification	Twilio API / ServiceNow Email
8.	External API-2	Identity verification (optional)	Aadhar API (optional)
9.	Infrastructure	Cloud-hosted deployment	ServiceNow SaaS (Cloud)

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Not applicable (ServiceNow is proprietary)	N/A
2.	Security Implementations	Role-based ACLs, encrypted fields, secure login	ServiceNow ACLs, HTTPS, OAuth
3.	Scalable Architecture	Modular design with scalable ServiceNow backend	ServiceNow Platform
4.	Availability	High availability via ServiceNow cloud infrastructure	ServiceNow SaaS
5.	Performance	Optimized workflows, minimal latency, real-time updates	ServiceNow Performance Analytics

References:

- <https://www.servicenow.com/>
- <https://developer.servicenow.com/>
- <https://docs.servicenow.com/>
- <https://apsche.smartinternz.com/>
- https://drive.google.com/drive/u/0/mobile/folders/1m_vXdKkujfkVq1x57h6bZ3Kj_07hdh4T