Project Design Phase II

Project Title: Educational Management System (ServiceNow-based)

Date: 28 June 2025

Team Members: Navya,Devi,Nireesha,Aravind,Rehan

Maximum Marks: 4 Marks

Technical Architecture:

This project is built fully on the ServiceNow platform. It uses ServiceNow's low-code environment to manage student records, admissions, and academic progress through structured forms and automated workflows.

Table-1: Components & Technologies

Component	Description	Technology
Infrastructure	Hosted and deployed within ServiceNow cloud	ServiceNow Cloud Infrastructure platform
User Interface	Simple forms created using the ServiceNow Service Portal	Service Portal
Application Logic-1	Business rules and logic for student/admission workflows	Glide Script (JavaScript)
Application Logic-2	Automated processes like admission status updates	Flow Designer
Database	Stores all student, parent, marks, and admission data	ServiceNow built-in Database
External API-1	Used for future integration (if needed)	REST API (ServiceNow Integration)

Table-2: Application Characteristics

Characteristic	Description	Technology
Open-Source Frameworks	Uses built-in ServiceNow tools, no external open-source required	N/A
Security Implementations	Role-based access control, authentication via ACLs, User Roles	ServiceNow platform
Scalable Architecture	Scales with ServiceNow instance and licensing	ServiceNow Cloud
Availability	Always available through ServiceNow cloud	ServiceNow HA Infrastructure
Performance	Fast response time with built-in optimization	ServiceNow platform features