# Project Design Phase

## Solution Architecture

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**Team ID:** LTVIP2026TMIDS24916
**Project Name:** Educational Organization Management Using ServiceNow

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## Goals of the Architecture

- ✓ Build a unified educational management platform using ServiceNow.
- ✓ Automate academic and administrative workflows for students, faculty, and staff.
- ✓ Maintain data consistency and accuracy across departments.
- ✓ Enhance communication, visibility, and collaboration through real-time updates.
- ✓ Reduce manual errors and administrative delays by implementing workflow automation.

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## Key Components

- **Student Table:** Stores student profiles, academic details, and course enrollments.
- **Faculty Table:** Maintains faculty data, teaching schedules, and departmental roles. □ **Course Table:** Defines course details, subjects, credits, and linked instructors.
- **Request Management Module:** Handles student and staff requests like leave, admissions, or support queries.
- **Workflow Engine:** Automates approvals, notifications, and routing of academic processes.
- **Dashboard and Reports:** Provides visual insights on attendance, academic progress, and administrative performance.

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## Development Phases

1. **Requirement Analysis:** Identify institutional challenges and define automation goals.
2. **Data Modeling:** Create relational tables for students, faculty, courses, and requests.
3. **Workflow Implementation:** Configure ServiceNow workflows to automate academic and support processes.
4. **Role Assignment:** Define permissions for students, faculty, and administrators to ensure data security.
5. **Testing and Validation:** Simulate student admission, faculty allocation, and request approvals to ensure proper functionality.
6. **Deployment:** Launch the system organization-wide and monitor real-time data performance.

# ⚙ Solution Architecture Description

The **Educational Organization Management System using ServiceNow** is designed to integrate and automate core educational and administrative operations within a single platform. The architecture ensures smooth interaction between students, faculty, and administrators by digitizing all key processes — including admissions, attendance, communication, and academic reporting.

Each functional area, such as student management or course tracking, operates as a **modular ServiceNow application**, connected through relational tables and governed by business rules. Workflows handle approvals automatically, while dashboards provide actionable insights.

For instance, when a student submits an admission request, the system automatically routes it to the admission officer for approval. Faculty can track course progress, update grades, and send feedback through their portals. Administrators can generate reports in real time, ensuring transparency and efficiency.

The architecture leverages **ServiceNow's robust workflow engine**, ensuring scalability, security, and customization. It reduces manual intervention, promotes digital collaboration, and maintains institutional data integrity.

## Conclusion

This solution architecture empowers educational institutions with a centralized, automated, and intelligent system built on ServiceNow. It enhances academic efficiency, reduces operational delays, and provides data-driven decision-making tools — paving the way for a modern, technology-driven educational ecosystem.