

Project Design Phase-II Data Flow Diagram & User Stories

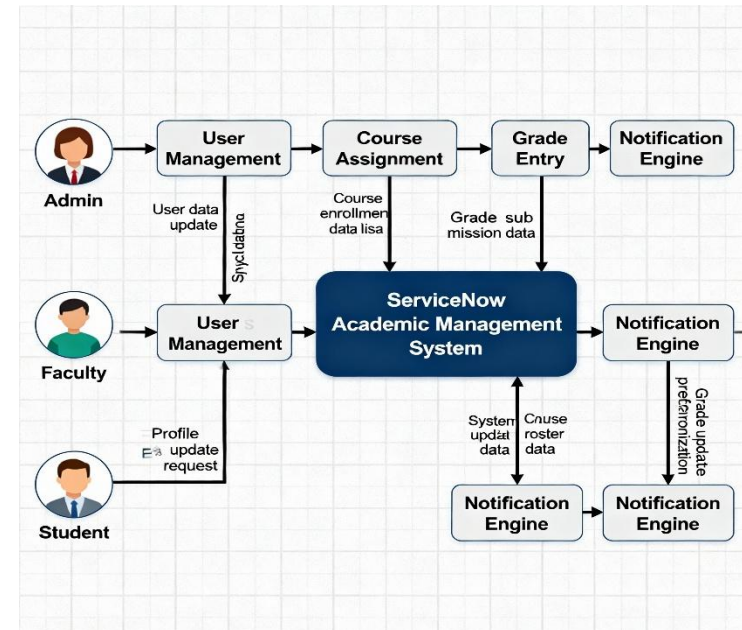
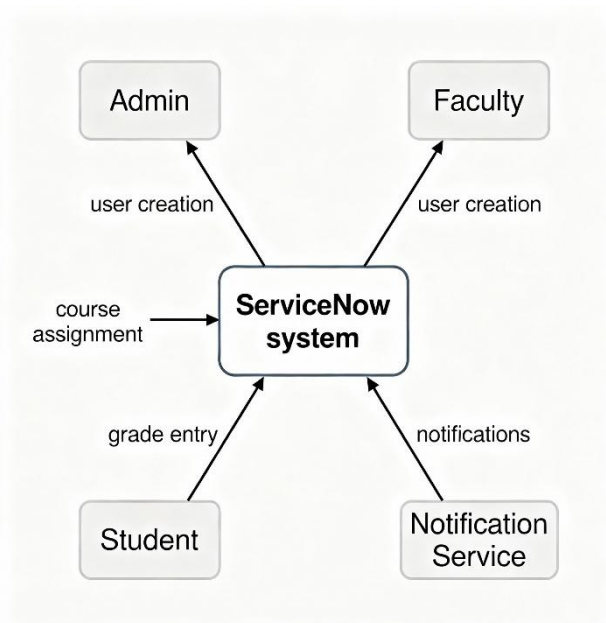
Date	1 NOVEMBER 2025
Team ID	NM2025TMID00502
Project Name	Educational Organisation Using ServiceNow
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

In the project "Educational Organisation Using ServiceNow," Data Flow Diagrams (DFDs) illustrate how user creation, deletion, course assignment, and notifications requests are processed within the system. The DFD shows the interaction between the admin, the ServiceNow platform, and various academic tables to validate whether a user is assigned to any active course or activity. If the user is linked to an active course, the system blocks the deletion request to maintain data integrity and accountability.

Example:



User Stories:

User stories define what different users need from the system in simple, goal-focused language. In this project, they help ensure the system manages academic users and records reliably, blocks user deletion only when necessary, and supports compliance.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Administrator	User Management	USN-1	As an admin, I want to add, update, or delete student/faculty users from the system.	The system should allow creation/update; deletion only if user is not assigned.	High	Sprint-1
System (Auto-check)	Validation before Deletion	USN-2	As a system, I must check if the user is assigned to any course before processing a delete request.	Deletion proceeds only if no course is assigned; else, it should be blocked.	High	Sprint-1
Admin	Course Assignment	USN-3	As an admin, I want to assign courses to users as needed.	Assigned courses are updated and visible in user profiles.	High	Sprint-1
Faculty	Grade/Attendance Management	USN-4	As a faculty member, I want to record grades and attendance for my courses.	Entries are stored and reflected correctly for each student.	Medium	Sprint-2
Student	Notification	USN-5	As a student, I want to receive notifications for course assignments, grades, and attendance updates.	Alert is sent to the student whenever updates occur in ServiceNow.	Medium	Sprint-2
System (Auto-check)	Alert Notification	USN-6	As a system, I must send an alert if deletion is requested for a user assigned to a course.	System shows a warning before deletion; deletion can only occur if not assigned.	Medium	Sprint-2
Auditor	Activity Log	USN-7	As an auditor, I want to view a log of all critical actions for compliance verification.	All user creation, deletion, and assignment actions are tracked for audit.	Low	Sprint-3