

# Project Design Phase II

## Data Flow Diagrams and User Stories

Date	31 OCTOBER 2025
Team ID	NM2025TMID04230
Project Name	Education Organisation Using ServiceNow
Maximum Marks	4 Marks

### Data Flow Diagram (DFD) - Level 0: Context

This diagram illustrates the highest-level interaction of data for the project. The central entity is the **ServiceNow Platform**, which functions as the Digital Workflow Engine for the entire organisation. Surrounding it are the primary external entities: **Student/Faculty/Staff** (the users), the **Student Information System (SIS)**, and various **Legacy/Other Systems** (like LMS, HR, Finance). Users initiate **Service Requests** and consume **Knowledge Articles** from ServiceNow, which, in turn, provides **Status Updates** and **Fulfillment Notifications**. Crucially, the **SIS** engages in bi-directional flow with ServiceNow, syncing **Student and Course Data** while receiving **Status Updates** on SIS-related requests. Finally, **Legacy/Other Systems** feed essential data—such as financial or authentication information—into ServiceNow, which sometimes sends back completion signals.

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### User Stories

User Stories capture specific user needs derived from the project's empathy work. These requirements ensure the ServiceNow implementation is truly user-centric.

#### A. Student Persona (Alex, The Engaged Student)

The student stories focus on convenience and transparency. **As a Student**, Alex needs a **single Service Portal** to submit *all* requests (IT, housing, registration), ensuring they don't have to log into multiple confusing systems. Transparency is paramount: Alex

wants to **view the real-time status** of requests (e.g., "Pending Advisor Approval") so they know exactly when to expect fulfillment. For simple queries, Alex expects the Virtual Agent to provide **instant, accurate answers** about deadlines, promoting self-service. Proactive communication is also necessary: Alex wants to receive an **automated reminder notification** on their mobile phone for due dates, helping them avoid late fines.

## **B. Administrative Staff Persona (Sarah, The Service Fulfillment Agent)**

The admin staff stories prioritize efficiency and data accuracy. **As an Admin Staff member**, Sarah needs a **centralized queue** that intelligently prioritizes and routes *all* incoming requests based on her specific role, eliminating time wasted sifting through departmental email inboxes. To ensure accuracy and speed, Sarah requires that **all student and course data** (pulled directly from the SIS) be displayed automatically on the service request form, removing the need for manual lookups in a separate system. Finally, to enforce policy and prevent delays, Sarah needs to **trigger an automatic email approval flow** (e.g., to the department head for any withdrawal request), ensuring auditability and compliance.

## **C. IT Staff Persona (Ben, The IT Support Technician)**

The IT staff stories focus on context and diagnostic speed. **As an IT Technician**, Ben needs the system to **automatically link a classroom number** on a service ticket to its associated **Projector Configuration Item (CMDB record)**, so that he knows precisely what equipment is failing before arriving on-site. Furthermore, to effectively manage service expectations, Ben wants to **view all current outages** and the full list of affected services in a single dashboard, enabling him to communicate accurately about system availability during major campus-wide incidents.

## Flow Chart: Student Service Request Lifecycle on SeroVowe

The Student's Journey from Request to Resolution

