

Data Flow Diagram & User Stories

Date: 2 November 2025

Team ID / NM ID: 1B7E2B53849503BABC14DF402D5447BF

Project Name: Streamlining Ticket Assignment for Efficient Support Operations

Introduction

This phase illustrates how data flows within the ServiceNow platform during automated ticket assignment.

It also defines user stories that capture specific needs and functions for each system user to ensure smooth support operations.

Data Flow Diagram (DFD)

A Data Flow Diagram (DFD) represents how information moves through the ServiceNow ticketing system.

It shows the interaction between users, the system, and the database during the automatic ticket assignment process.

DFD Description:

Support Agent: Creates or updates a ticket in ServiceNow.

System (Automation Engine): Automatically assigns tickets based on skill set, workload, and priority.

Database: Stores all ticket and user data.

Manager: Monitors ticket progress and reassignments through dashboards.

Flow Example:

Support Agent → ServiceNow System → Automation Engine → Database → Manager

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task
Acceptance Criteria	Priority Release		

Support Agent Ticket Creation USN-1 As a support agent, I want my tickets to be automatically assigned to the right team, so I don't have to manually choose assignees. Tickets are auto-assigned based on team availability and expertise. High Sprint-1

Automation System Assignment Validation USN-2 As the system, I must check ticket details and assign it to the correct queue automatically. Ticket assignment must follow set business rules and workload balance. High Sprint-1

Manager Monitoring and Reporting USN-3 As a manager, I want to view ticket distribution and workloads across teams. Dashboard displays accurate ticket counts and response times. Medium Sprint-2

Conclusion

The Data Flow Diagram provides a clear overview of how ServiceNow automates ticket assignments.

User stories ensure that each participant—from agent to manager—has well-defined goals, leading to efficient, balanced, and transparent support operations.