

# Project: Automated Network Request Management in ServiceNow

## Ideation Phase

### Empathize & Discover

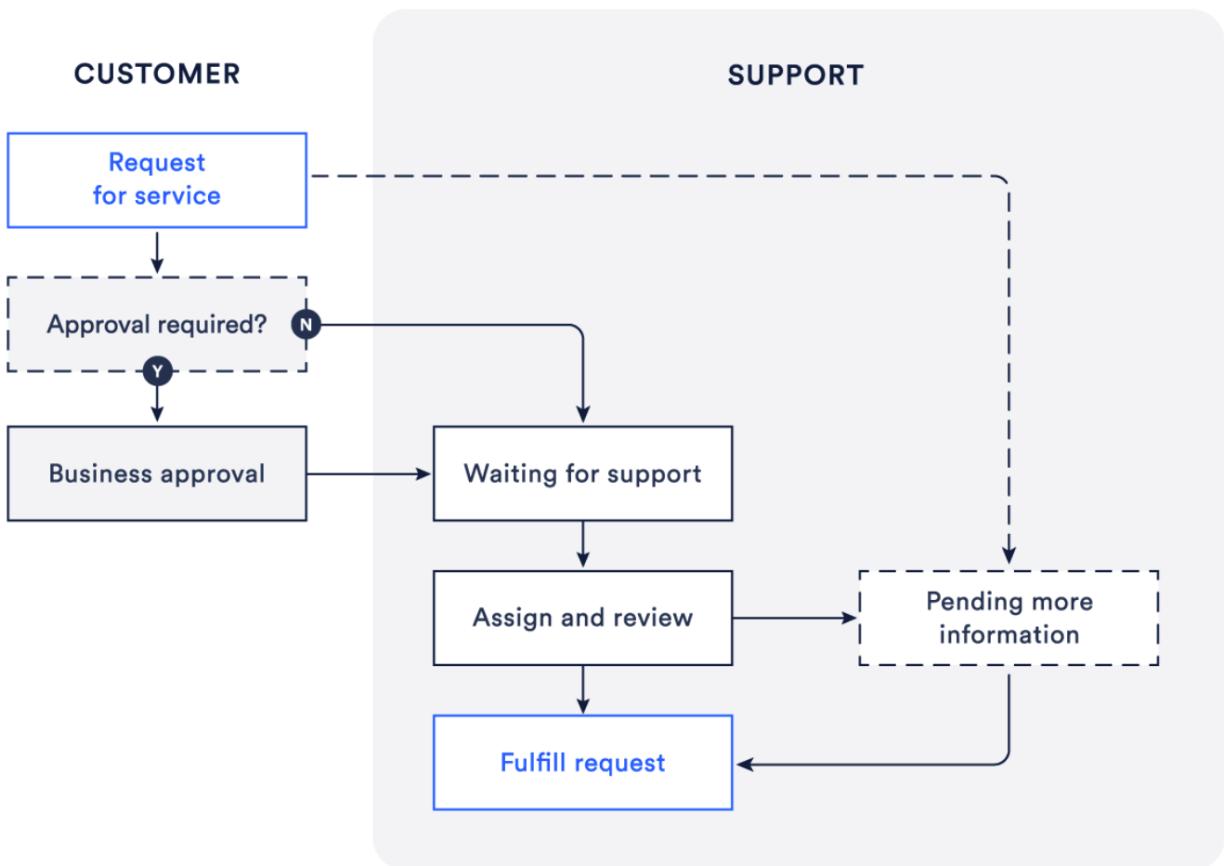
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#### 1. Introduction

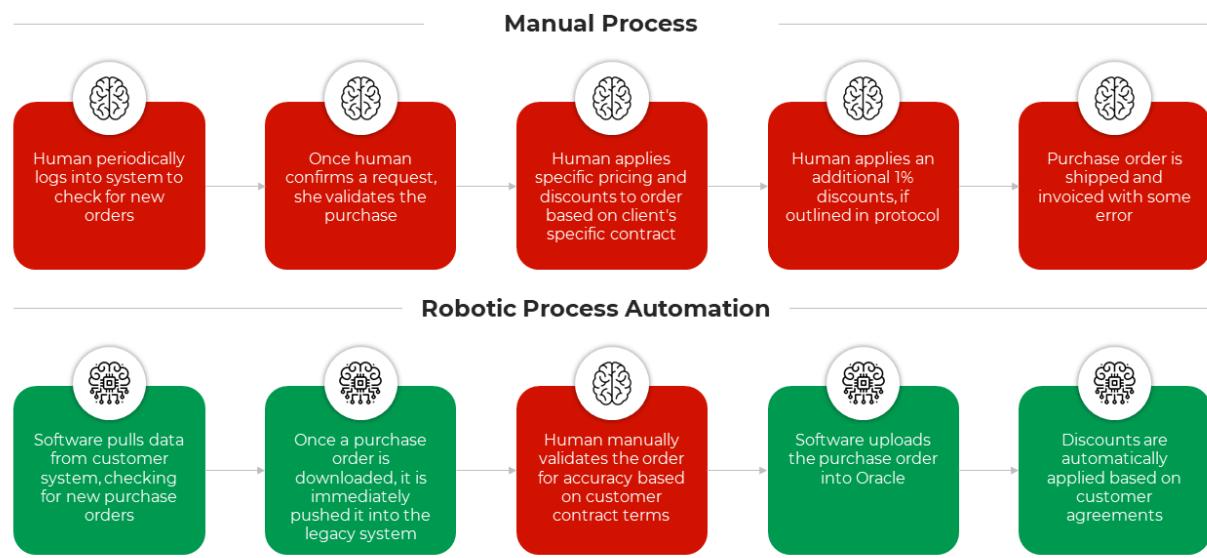
Modern organizations handle numerous network-related requests such as VPN access, firewall rule changes, IP allocation, and LAN/WAN provisioning. Traditionally, these requests are processed manually through emails or basic ticketing systems, leading to delays, errors, and lack of visibility.

The **Automated Network Request Management in ServiceNow** project aims to automate the complete lifecycle of network requests using ServiceNow's Service Catalog, Flow Designer, approval workflows, notifications, and reporting mechanisms.

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## Manual Process Vs Robotic Process Automation



## **2. Problem Statement**

Manual network request handling is:

- Time-consuming
- Error-prone
- Difficult to track
- Lacking SLA enforcement
- Dependent on emails and follow-ups

This results in reduced operational efficiency and poor user experience.

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## **3. Project Objectives**

The main objectives of this project are:

- To automate end-to-end network service requests
  - To reduce manual intervention and human errors
  - To ensure SLA compliance
  - To improve transparency and tracking
  - To enhance communication between users, approvers, and network teams
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## **4. Scope of the Project**

### **In Scope:**

- Service Catalog-based network request forms
- Automated approval workflows
- SLA assignment and monitoring
- Email and in-app notifications

- Dashboards and reports

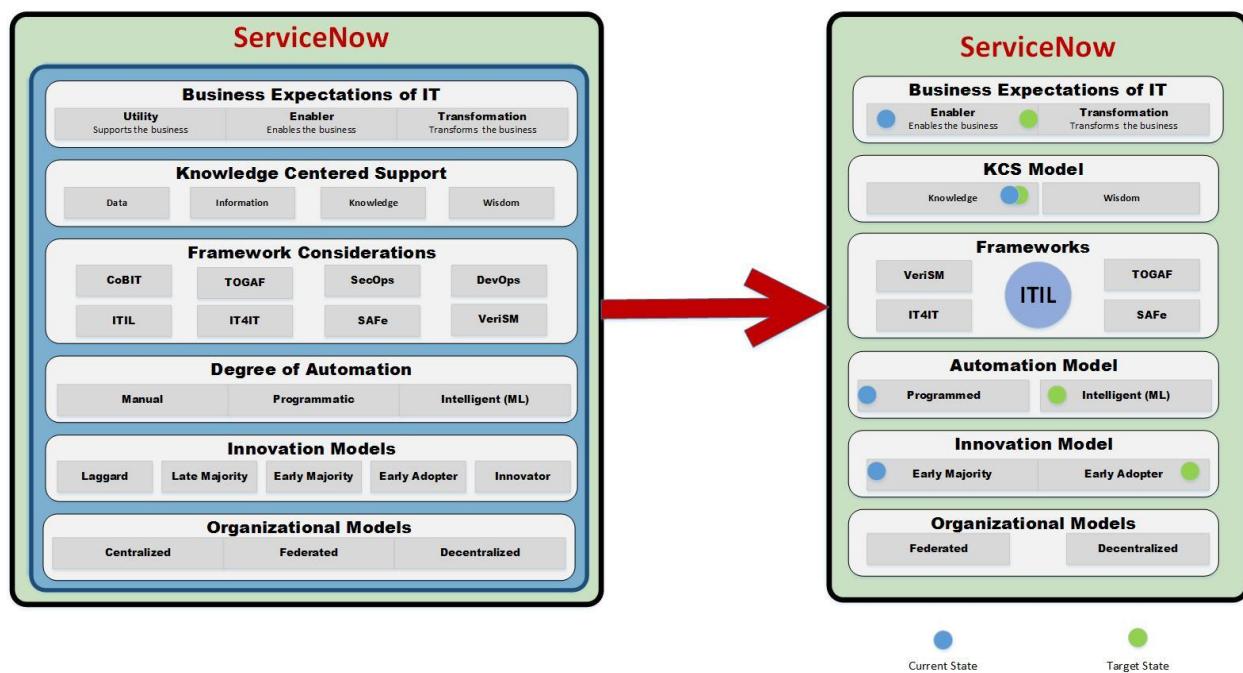
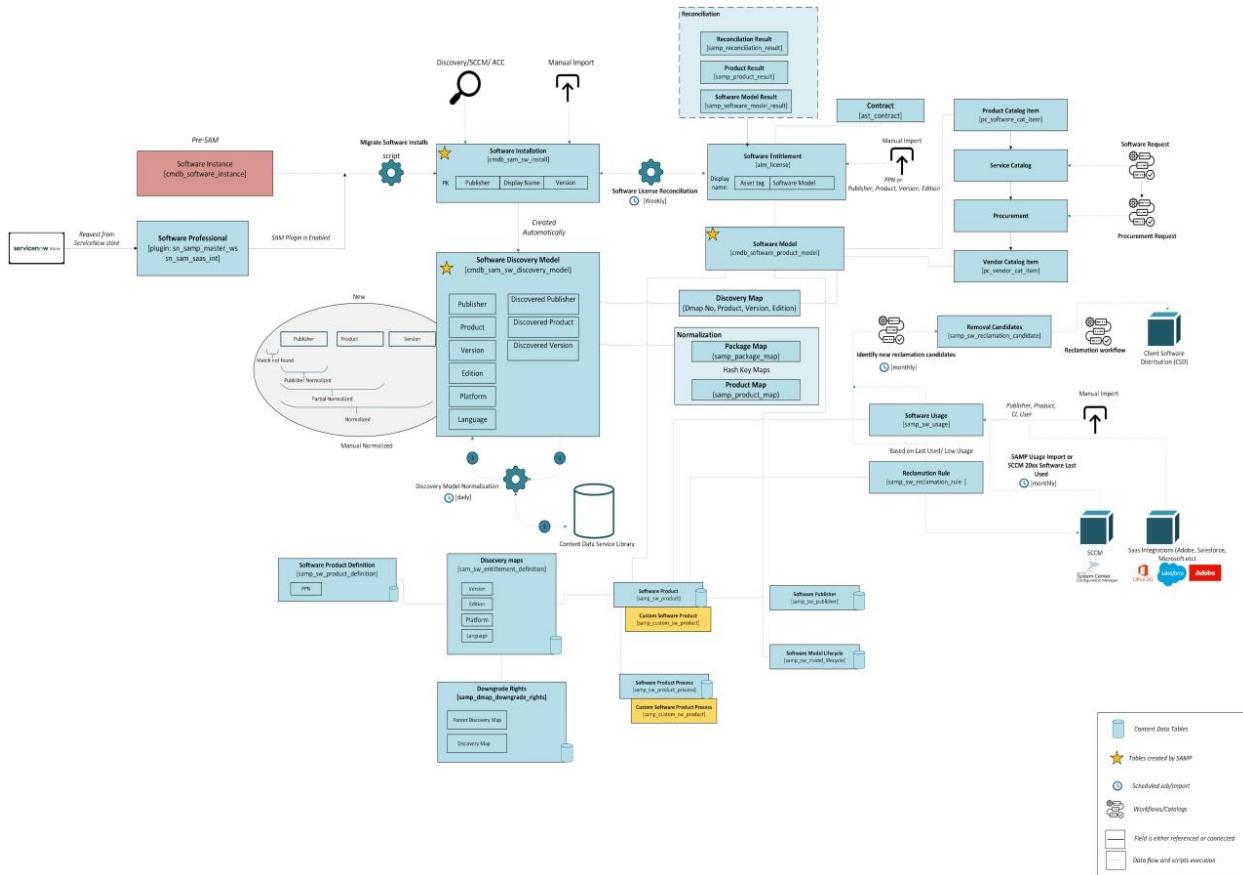
#### **Out of Scope:**

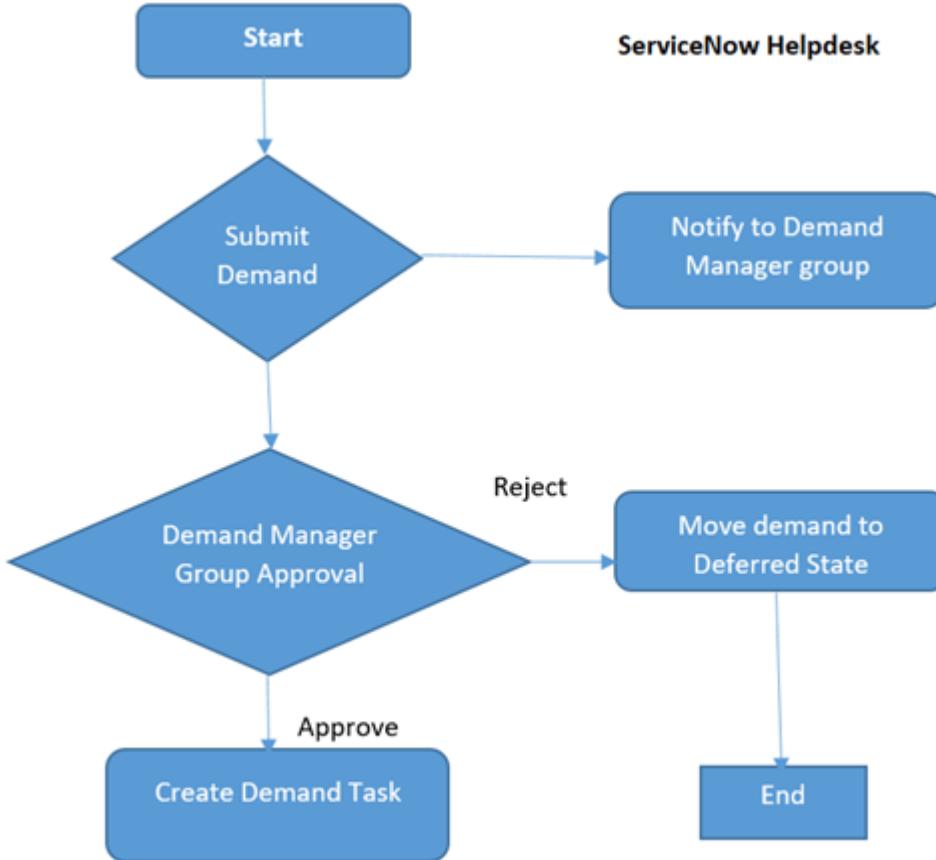
- Physical network device installation
  - Third-party network monitoring tools
  - Advanced AI-based decision-making (future enhancement)
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## **5. System Architecture**

The system is built entirely on the ServiceNow platform and consists of:

- Service Catalog for request intake
  - Flow Designer for automation
  - Approval Engine for governance
  - Notification Engine for communication
  - Reporting & Dashboards for monitoring
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## 6. Module Description

### 6.1 User Interface Module

- Service Catalog forms for network requests
- Dynamic fields using UI Policies
- Mandatory field validation

### 6.2 Automation Module

- Flow Designer workflows
- Automatic ticket creation
- SLA assignment based on request type

## 6.3 Approval Module

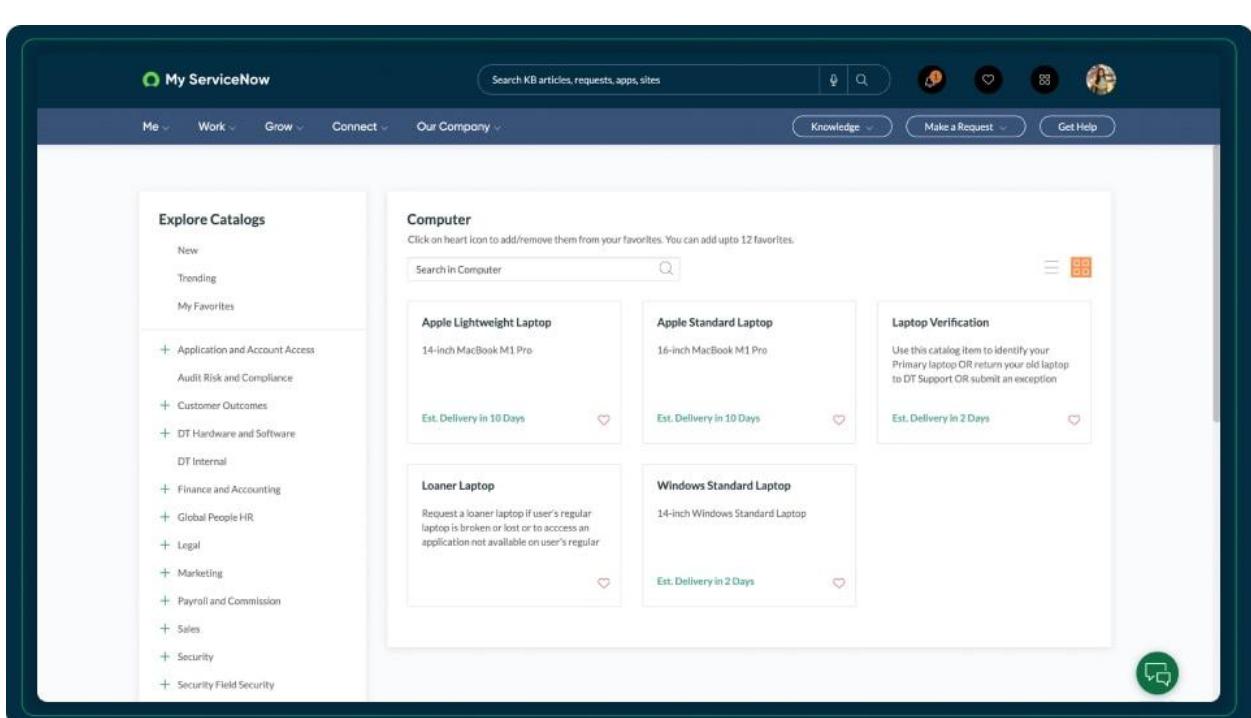
- Manager approval
- Network team approval
- Conditional approvals based on request category

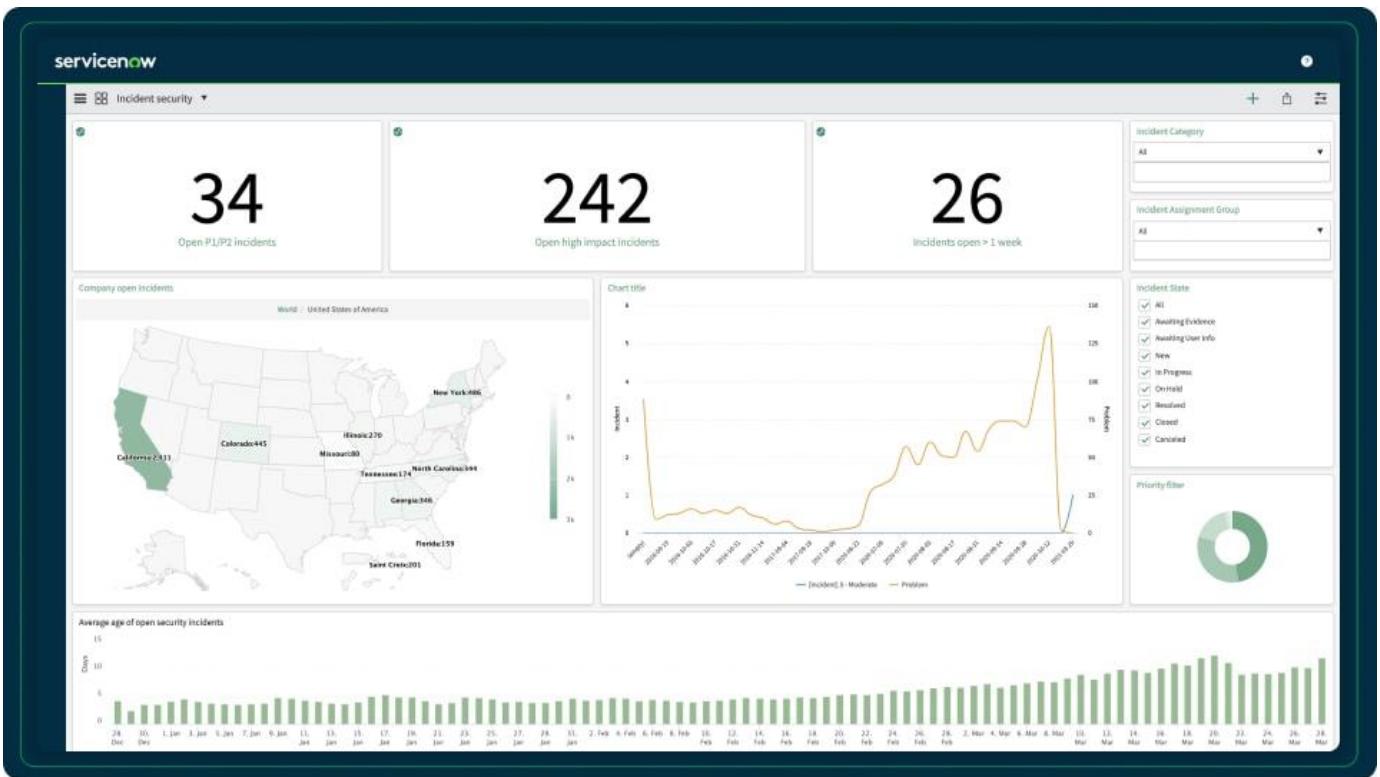
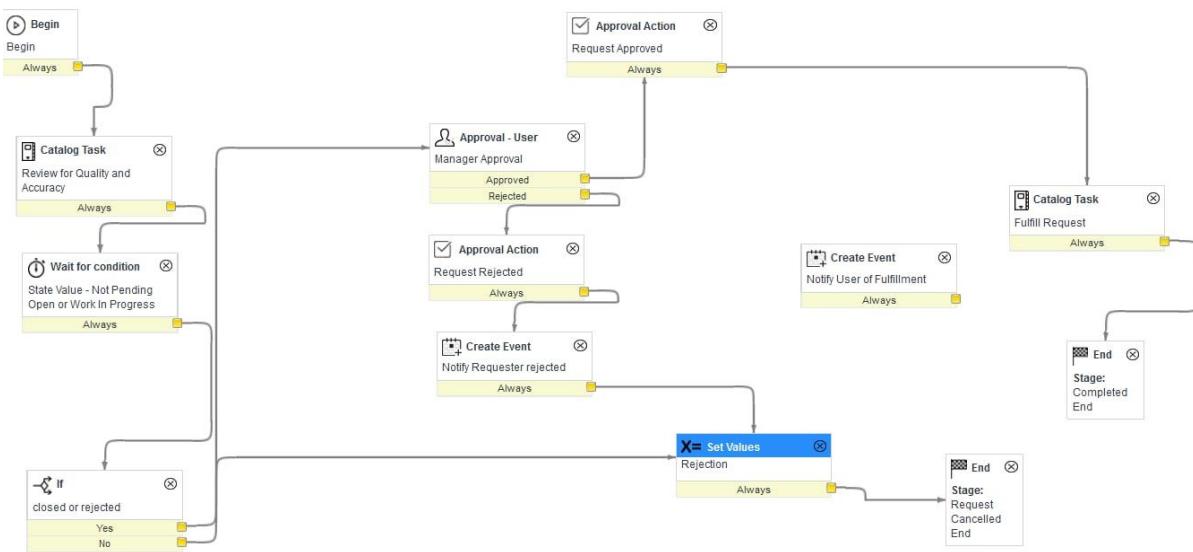
## 6.4 Notification Module

- Email notifications on submission
- Approval alerts and reminders
- Status update notifications

## 6.5 Reporting Module

- Request volume reports
- SLA compliance dashboards
- Approval time analysis





## **7. Empathy Map & User Understanding**

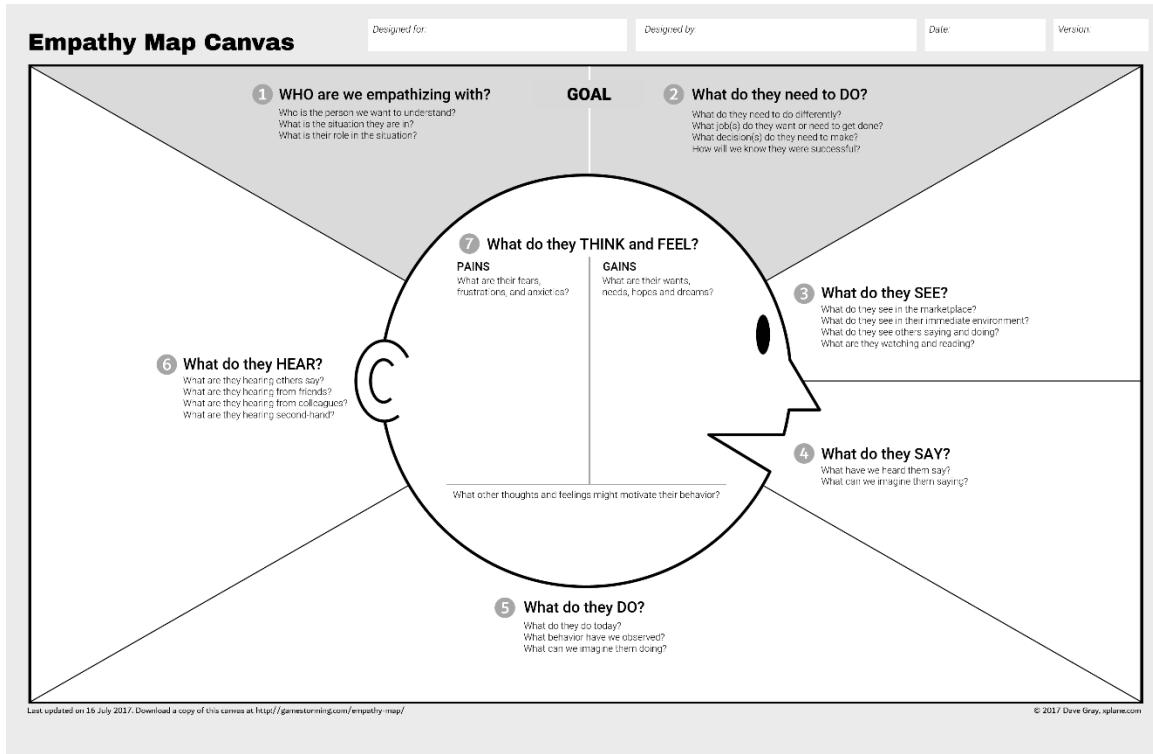
An empathy map was created to understand the pain points and expectations of different stakeholders such as end users, network engineers, managers, and IT administrators.

### **Key Pain Points:**

- Delayed approvals
- No request visibility
- Repeated follow-ups
- Manual errors

### **Key Gains:**

- Faster request processing
  - Real-time tracking
  - Automated notifications
  - Clear accountability
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# Empathy Map



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## 8. Use Case Scenarios

- VPN Access Request
- Firewall Change Request
- IP Allocation Request

- LAN/WAN Provisioning Request

Each use case follows a standardized flow:

**Request Submission → Validation → Approval → Fulfillment → Closure**

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## 9. Benefits of the System

- Reduced turnaround time
  - Improved SLA adherence
  - Better audit and compliance
  - Increased user satisfaction
  - Reduced operational costs
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## 10. Future Enhancements

- AI-based request categorization
  - Predictive SLA breach alerts
  - Chatbot-based request submission
  - Integration with network monitoring tools
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## 11. Conclusion

The **Automated Network Request Management in ServiceNow** project successfully addresses the challenges of manual network request handling by providing a centralized, automated, and transparent solution. The system improves efficiency, accountability, and overall service quality within IT operations.