



Ordering a Wi-Fi Router via ServiceNow Service Catalog

1. Project Overview:

This project is focused on Wi-Fi Router Service Catalog Implementation within ServiceNow, designed to address the challenge of streamlining and automating the process for employees to request IT equipment, specifically Wi-Fi routers. The goal is to deliver a comprehensive solution by leveraging ServiceNow's Service Catalog and Workflow Automation capabilities. Through this project, we aim to enhance operational efficiency, user experience, and inventory management, while supporting the long-term goals of improving IT service delivery and reducing manual interventions for the IT department.

2. Objectives:

- **Automate the Request Process**: Simplify and automate the process for requesting Wi-Fi routers across departments.
- Improve Approval Workflows: Create a seamless approval process that reduces delays and ensures compliance with business rules.
- Enhance Inventory Management: Integrate real-time inventory tracking and procurement processes to avoid stock outs and ensure timely deliver.
- **Self-Service Portal**: Develop a user-friendly Service Portal where employees can request Wi-Fi routers.
- Approval and Task Automation: Implement approval workflows and automated task creation for inventory checks and router delivery.
- **Real-Time Inventory Integration**: Ensure stock levels are automatically checked before requests are submitted and tasks are created for procurement when needed.

3. Key Features and Concepts Utilized:

- Service Now Service Catalog: Used for creating and managing Wi-Fi router catalog items that employees can request.
- Workflow Automation: Automated workflows for routing approvals, creating tasks, and managing inventory.
- **Real-Time Inventory Integration**: Integration with external inventory management systems to ensure accurate stock information.
- Role-Based Access Control (RBAC): Configuring user roles to control access to the service catalog and approval workflows.
- **Email Notifications**: Automated emails sent to users and approvers at different stages (request submitted, approval/rejection, and fulfillment).
- **Reporting and Analytics**: Dashboards to track request volumes, approval times, task progress, and inventory levels.





4. Detailed Steps to Solution Design:

- **Data Models**: Design of data tables to store router request information, approval statuses, inventory details, and task assignments.
- Task automation to create inventory checks and fulfillment actions.
- Integration logic to check router stock in real-time and trigger procurement processes if necessary.
 - **Step 1 :** Sign in to ServiceNow.
 - **Step 2 :** Sign up for a developer account on the ServiceNow Developer site "https://developer.servicenow.com".
 - **Step 3 :** Once logged in, navigate to the "Personal Developer Instance" section.

Click on "Request Instance" to create a new ServiceNow instance.

- **Step 4 :** Fill out the required information and submit the request.
- **Step 5 :** You'll receive an email with the instance details once it's ready.
- **Step 6 :** Log in to your ServiceNow instance using the provided credentials.

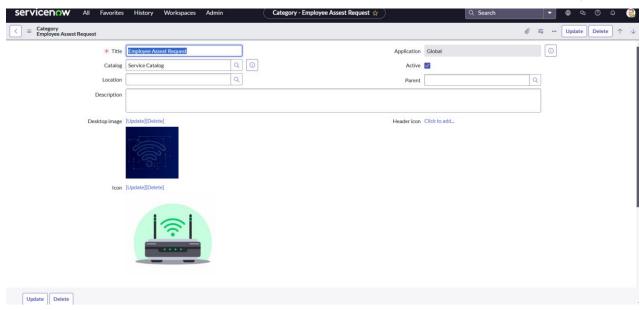
Now you will navigate to the ServiceNow.

Step 7: Open "Maintain categories" >> New

Step 8: Fill the details as below







Step 9 : To add a new Service Catalog item in ServiceNow, follow these steps to enter a title for the category, select the catalog, and upload the images. Here's a step-by-step guide:

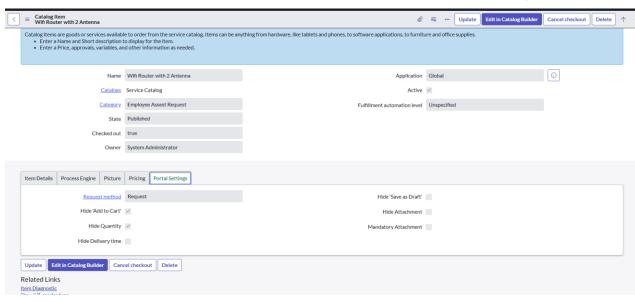
- 1. Enter a Title for Category
- 2. Select the Catalog in Which You Are Going to Add
- 3. Upload the Desktop Image
- 4. Upload the Icon Image
- 5. Save

Step 10 : Open "Maintain Items" >> New

Step 11 : Fill the details as below







Step 12: Steps to Add a New Service Catalog Item in ServiceNow

- 1. Give a Name for the Catalog Item
- 2. Select the Catalog
- 3. Select the Category
- 4. Save the Item
- 5.Go to Portal Settings and select the Request

Step 13: Add variables to the Item

Click on Variables >> New

Step 14: Fill the details as below

Step 15 : Steps to Add Variable for Catalog Item

- 1. Give a Question for Catalog Item
- 2. Name is Autopopulated
- 3. Save the variable



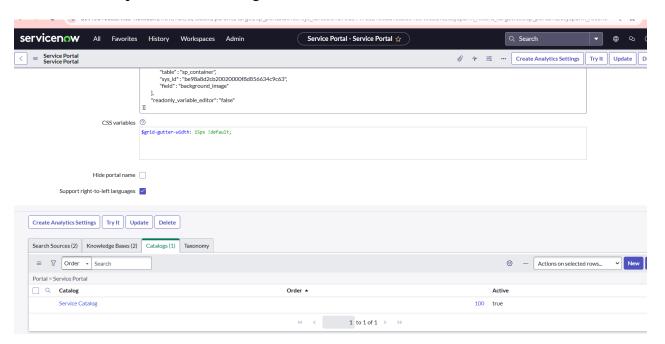


Step 16: Open "Portals"

Step 17: Select Service Portal



Step 18: Select Catalogs



Step 19: Select Edit

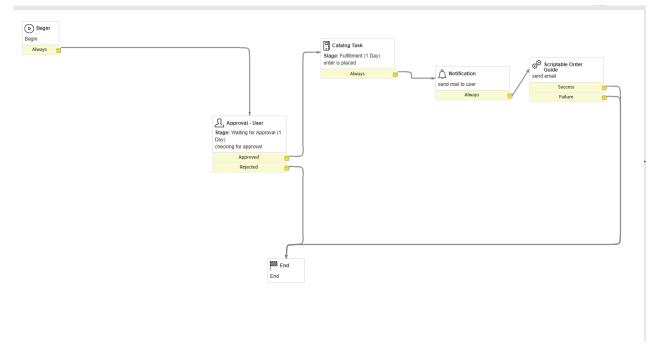
Select the Category and Add to Service Portal and Save

Step 20: Search for Workflow Editor.

Step 21 : Open Workflow Editor >> New Workflow







Create a workflow for process Automation

Step-by-Step Implementation:

1. Item Request by User:

A user submits a request for an item through a form or a specific request interface.

2. Approval Workflow:

The request goes into a pending state, awaiting approval from an authorized user or admin.

Notifications can be sent to potential approvers to review the request.

3. Catalog Task Creation:

Upon approval, a task is created in the catalog or inventory system to process the request.

This task involves verifying item availability, preparing the item for delivery, etc.

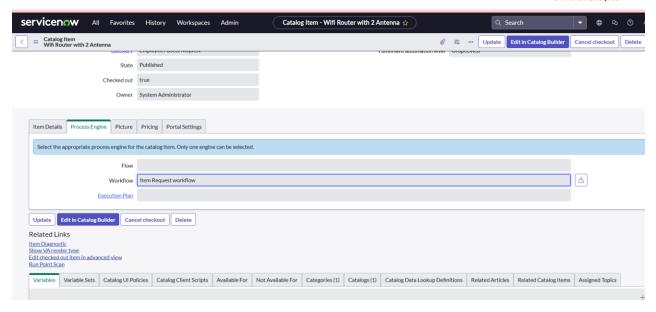
4. Email Notification:

Once the catalog task is completed and the order is successfully placed, an email is sent to the user notifying them of the successful placement of their order.

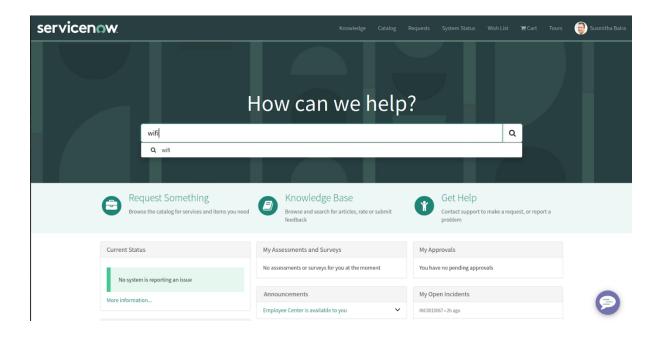
Step 22: Add the workflow to the item







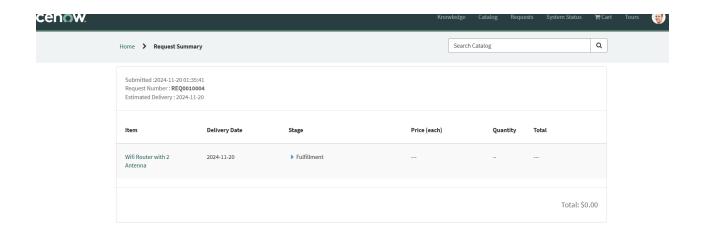
Step 23: Open Service Portal and make a Request for item







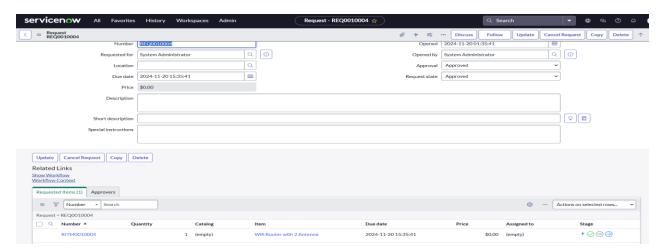
Step 24: Placing Request



Step 25: Open "My Requests"

Step 26: Open Request Record

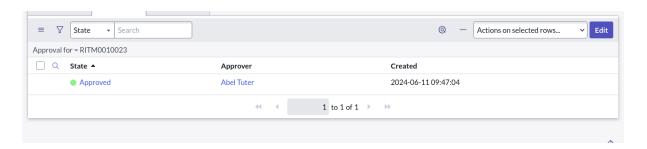
Step 27: Open Request item





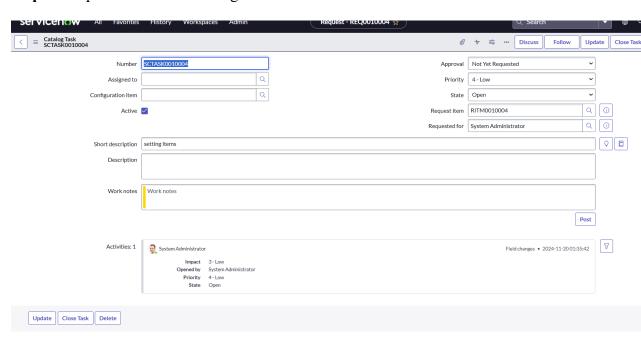


Step 28: waiting for approval



Then task is created

Step 29: Open the Service Catalog Task



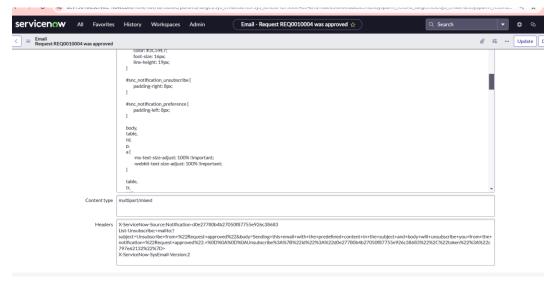
Click on Close task

Result:

open emails







5. Testing and Validation:

The testing approach focuses on ensuring the solution functions as expected across all components and scenarios:

Unit Testing:

• Test individual components, such as catalog item creation, variables (e.g., router models), and task automation.

User Interface Testing:

- Ensure the **Service Portal** is user-friendly and intuitive, with responsive design for various devices.
- Validate that all catalog items and variables are correctly displayed and selectable.

 Test email notifications for correct content and delivery.

Integration Testing:

- Verify integration with external inventory systems to ensure accurate real-time stock checks.
- Test the approval workflow to ensure requests are routed and approved correctly.

End-to-End Testing:

• Simulate the entire process from request submission to task fulfillment and router delivery to ensure all workflows, notifications, and tasks function together seamlessly.





6. Key Scenarios Addressed by Service Now in the Implementation Project:

- **Self-Service Request Submission**: Employees can request Wi-Fi routers through an easytouse portal with the correct options for router models, quantities, and delivery preferences.
- **Automated Approval Workflow**: Requests are automatically routed to the appropriate approvers, ensuring that only authorized individuals can approve router requests.
- Task Automation for Fulfillment: Upon approval, tasks are created for IT and inventory teams to process the order, verify availability, and fulfill the request.
- **Real-Time Inventory Checks**: Ensures that only available routers are requested, and tasks are created for procurement when stock is insufficient.
- **Email Notifications**: Automated updates are sent to users and approvers at key stages of the request process.
- Role-Based Access: Configured roles determine which users can request routers, approve
 requests, and view inventory details.
- Scalable Catalog Management: The system can be easily extended to accommodate additional IT equipment in the future.

7. Conclusion:

- Efficiency Gains: The Service Now-based Wi-Fi Router Service Catalog automates the entire process, reducing manual intervention and speeding up request fulfillment.
- **Improved User Experience**: Employees now have a seamless and user-friendly interface to request IT equipment, improving overall satisfaction.
- **Better Inventory Management**: Real-time inventory checks and automated procurement tasks ensure that Wi-Fi routers are always in stock and ready for delivery.
- Streamlined Approvals: Automated approval workflows have reduced delays in processing router requests, enhancing the overall operational efficiency.
- Scalable and Future-Proof Solution: The system is easily scalable to support new catalog items or devices as the organization's needs evolve.