# LAPTOP REQUEST CATALOG ITEM

Submitted by

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In partial fulfilment for the award of the degree

#### **BACHELOR OF ENGINEERING**

in

#### COMPUTER SCIENCE AND ENGINEERING

NAAN MUDHALVAN LAB

ANNA UNIVERSITY REGIONAL CAMPUS MADURAI-625-019



# ANNA UNIVERSITY: CHENNAI 600 025 NOVEMBER 2025

Supervised by

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#### **BONAFIDE CERTIFICATE**

This is to certify that the project report titled "Laptop Request Catalog Item" is the bonafide work of Vidula V (910022104050), Dharshini K (910022104006), Sridharan V (910022104305), who carried out the project work under my supervision in the Naan Mudhalvan Lab.

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HEAD OF THE DEPARTMENT

SIGNATURE

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#### **ACKNOWLEDGEMENT**

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I extend my sincere thanks to all teaching and non-teaching staff of the Department of Computer Science and Engineering and my peers for their support and encouragement.

Finally, I thank my family and friends, whose encouragement and patience motivated me to complete this project successfully.

**Team Leader** 

Vidula V (910022104050)

**Team Members** 

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#### **ABSTRACT**

In modern organizations, timely access to appropriate hardware is essential for employee productivity and operational efficiency. However, many companies still rely on outdated, manual processes for laptop requests, resulting in delays, incomplete submissions, and administrative overhead. The "Laptop Request Catalog Item" project addresses these challenges by automating and streamlining the laptop request process through a dynamic Service Catalog form.

This project aims to develop a user-friendly and intelligent ServiceNow Catalog Item that enables employees to request laptops quickly and accurately. The system incorporates dynamic field behavior, ensuring that only relevant options appear based on user selections — for example, laptop model choices may vary by department or job role. Clear on-screen instructions guide users throughout the process, minimizing confusion and reducing data entry errors. Additionally, a "Reset Form" functionality allows users to clear their entries and start afresh, improving usability and user satisfaction.

To support accountability and governance, all modifications and deployments are tracked through update sets, ensuring that configuration changes are auditable and easily transferable between environments. This approach aligns with IT service management best practices and promotes standardized, maintainable workflows.

Ultimately, the Laptop Request Catalog Item enhances the overall employee experience by simplifying asset requests, reducing processing times, and improving data accuracy. It reflects a shift from manual request handling toward a self-service, automated IT service management (ITSM) model, empowering employees and enabling IT teams to focus on higher-value tasks. This project not

only accelerates laptop provisioning but also demonstrates how digital transformation can be achieved through well-designed ServiceNow solutions.

#### **Problem Statement:**

Employees in the organization need a quick and efficient way to request laptops for work. The current process is manual and prone to delays, with no dynamic form behavior to guide users or ensure accurate data collection. To address this, a Service Catalog item needs to be created, allowing users to easily request a laptop, with dynamic fields, clear instructions, and additional functionality like resetting the form if needed. The solution should also ensure all changes are tracked for governance and deployment.

#### **Objectives:**

The main objective of the **Laptop Request Catalog Item** project is to automate and simplify the laptop request process within the organization through an efficient, user-friendly Service Catalog form. This solution aims to eliminate manual errors, reduce processing delays, and enhance the overall user experience.

- To design and implement a dynamic Service Catalog item that allows employees to request laptops easily and accurately.
- To incorporate dynamic field behavior, ensuring that form options change based on user input, making the process more intuitive and context-aware.
- > To provide clear instructions and validation messages within the form, helping users enter correct and complete data.
- To include a "Reset Form" functionality, enabling users to clear all inputs and restart the process when needed.
- > To maintain proper governance and traceability by tracking all configurations and updates through update sets for deployment.
- To improve operational efficiency by minimizing approval delays, ensuring accurate data collection, and streamlining IT asset management.

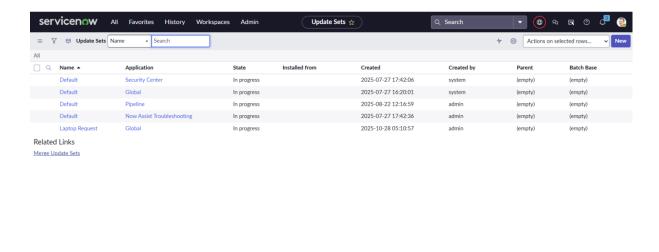
### **Skills Required:**

### **Update set**

### **Create Local Update set**

### Skill Tags:

- 1. Open service now.
- 2. Click on All >> search for update sets
- 3. Select local update sets under system update sets
- 4. Click on new
- 5. Fill the following details to create a update set as: "Laptop Request"
- 6. Click on submit and make current
- 7. By clicking on the button it activates the update set .



# **Service Catalog Item**

# **Create Service Catalog Item**

Duration: 1 Hrs

# Skill Tags:

- 1. Open service now.
- 2. Click on All >> service catalog
- 3. Select maintain items under catalog definitions
- 4. Click on New.
- 5. Fill the following details to create a new catalog item

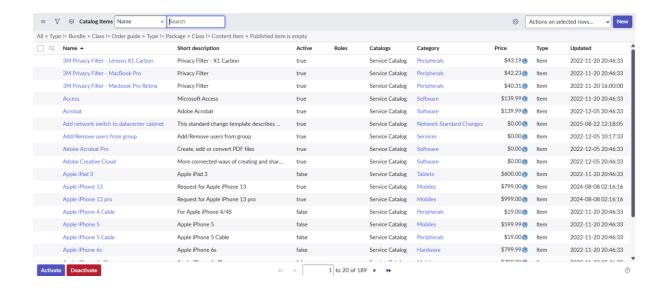
Name: Laptop Request

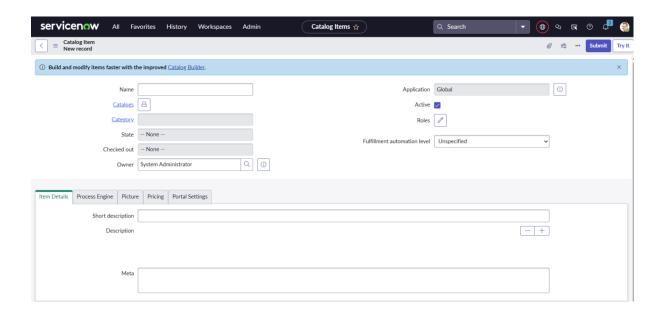
Catalog: service Catalog

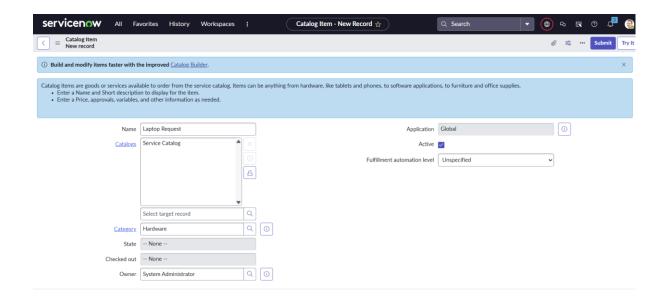
Category: Hardware

Short Description: Use this item to request a new laptop

6. Click on 'SAVE'







#### Add variables

Duration: 1 Hrs

Skill Tags:

# Step1:

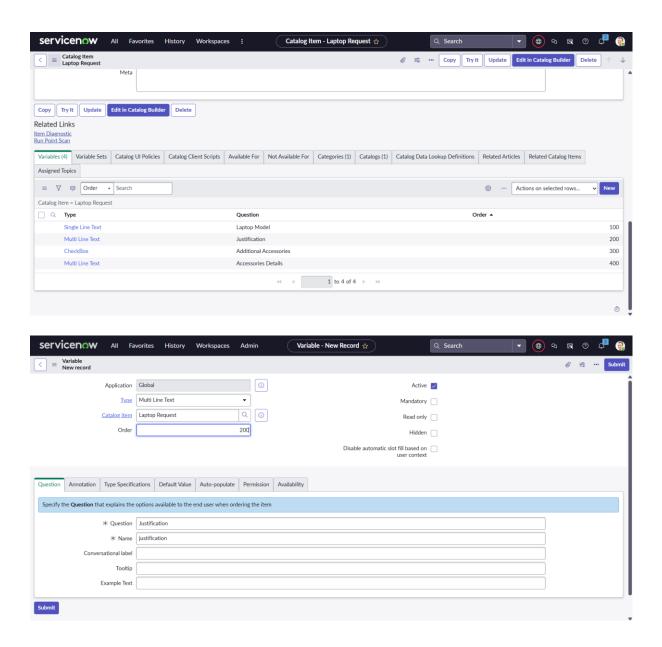
- After saving the catalog item form scroll down and click on variable(related list)
- Click on new and enter the details as below
  - 1. Variable 1:Laptop Model

Type: Single line text

Name: laptop model

Order:100

- Click on submit
- Again click on new and add Remaining variables in the above process



#### Variable 2:Justification

Type: Multi line text

Name: justification

Order:200

#### 3. Variable 3:Additional Accessories

Type: Checkbox

Name: additional accessories

Order:300

#### 4. Variable 4: Accessories Details

Type: Multi line text

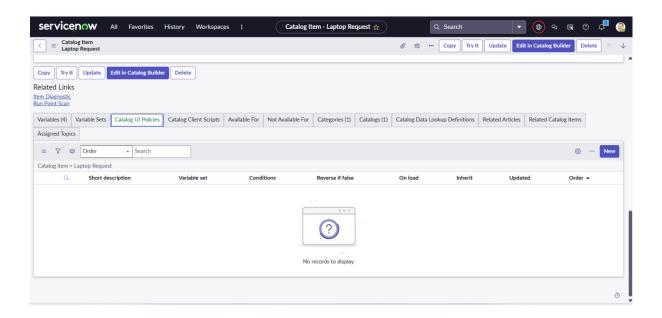
Name:accessories details

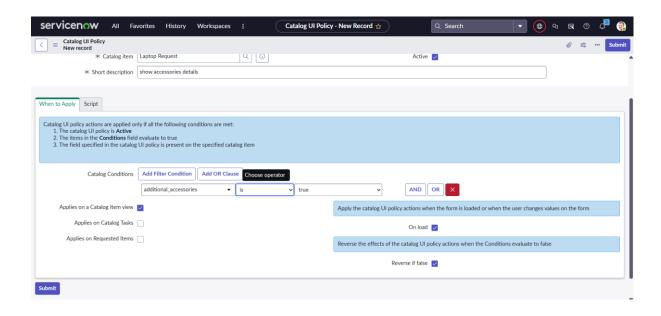
Order:400

### **UI Policy**

# **Create Catalog Ui policies**

- 1. Click on all>> search for service catalog
- 2. Select maintain item under catalog definition
- 3. Search for 'laptop request' which is created before
- 4. Select 'laptop request' and scroll down click on "Catalog Ui policies"
- 5. In the catalog ui policies related list tab click on new
- 6. Give short description as: show accessories details
- 7. Set the Catalog Condition in the related list tab 'when to apply'





- 8. Scroll down and select 'catalog ui action'
- 9. Then click on new button

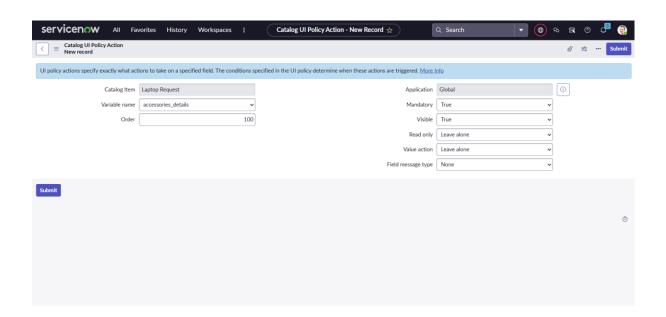
10. Select variable name as: accessories\_details

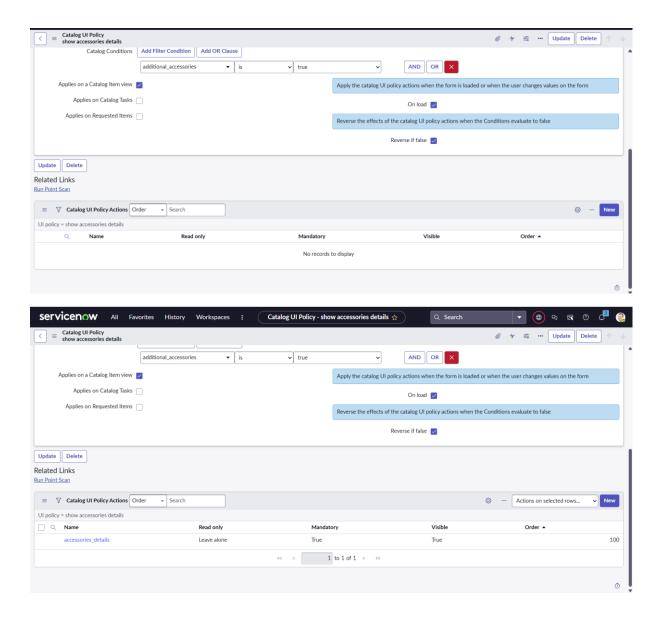
Order:100

Mandatory: True

Visible: True

12. Click on save and again click save button of the catalog ui policy form





#### **UI Action**

#### Create ui action

Duration: 1 Hrs

Skill Tags:

1. Open service now.

- 2. Click on All >> search for ui action
- 3. Select ui actions under system definition
- 4. Click on new
- 5. Fill the following details to create ui action

```
Table: shopping cart(sc_cart)

Order:100

Action name: Reset form

Client: checked

Script:

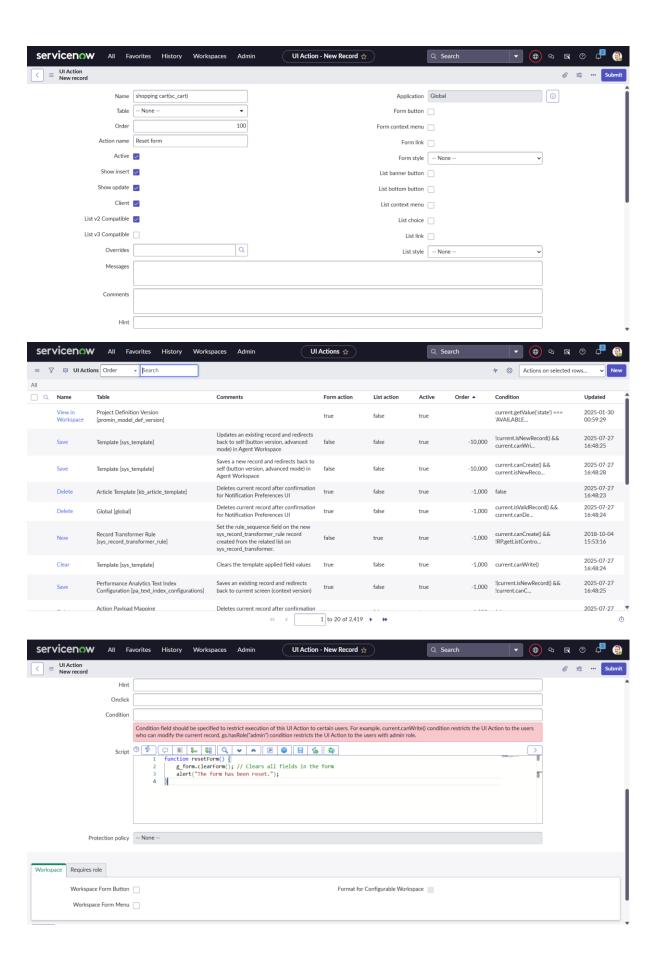
Script:

function resetForm() {
    g_form.clearForm(); // Clears all fields in the form
```

alert("The form has been reset.");

Click on save

}

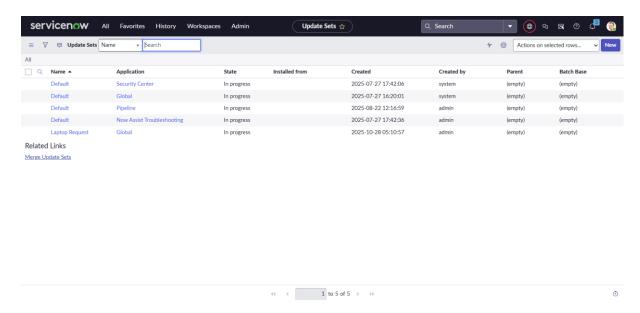


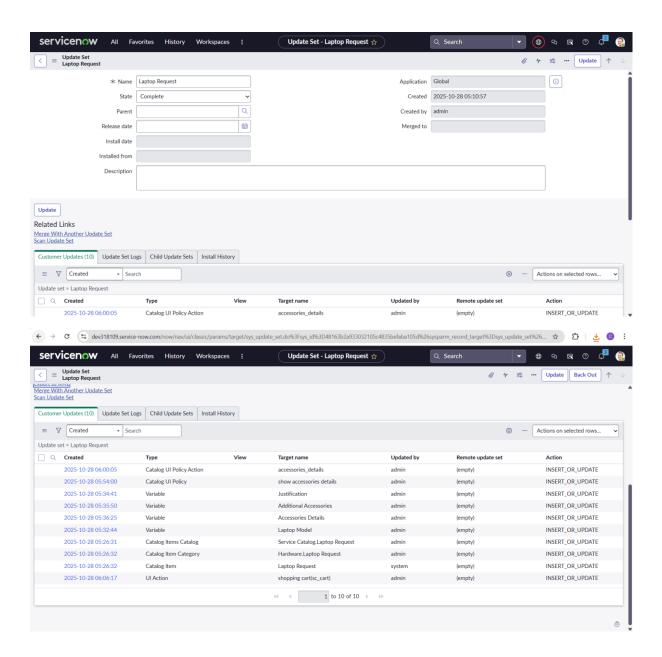
# **Export Update set**

### **Exporting changes to another instances**

Duration: 1 Hrs

- 1. Click on All >> search for update sets
- 2. Select local update set
- 3. Select created update set i.e. 'Laptop Request Project'
- 4. Set the state to 'Complete'
- 5. In the related list Update tab, updates are visible which we perform under this update set.
- 6. Click on export to XML, it download one file





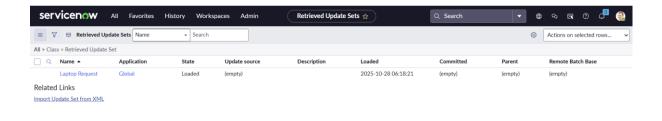
### Login to another Instance

#### Retrieving the update set

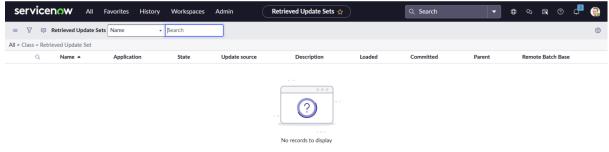
Duration: 1 Hrs

- 1. Open another instance in incognito window
- 2. Login with credentials
- 3. Click on all>> search for update sets

- 4. Select "Retrieved update set" under system update set
- 5. It open retrieved update set list and scroll down
- 6. Click on Import update set from XML
- 7. Upload the downloaded file in XML file
- 8. Click on Upload and it gets uploaded.



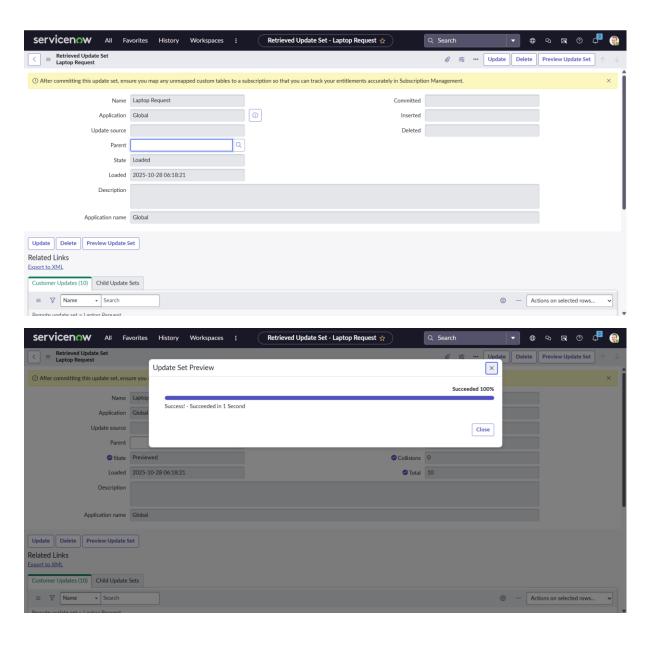
- 9. Open retrieved update set 'laptop request project'
- 10.Click on preview update set
- 11. And click on commit update set
- 12. And also see the related tab updates
- 13. After committing update set in this instance we get all updates which are done in the previous instance

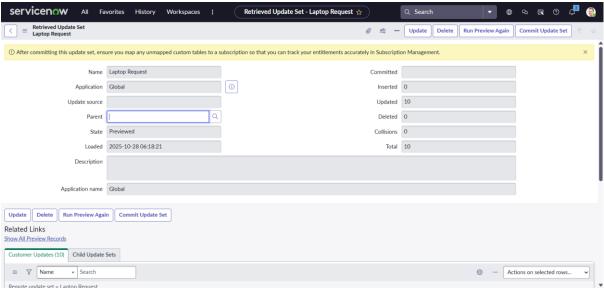


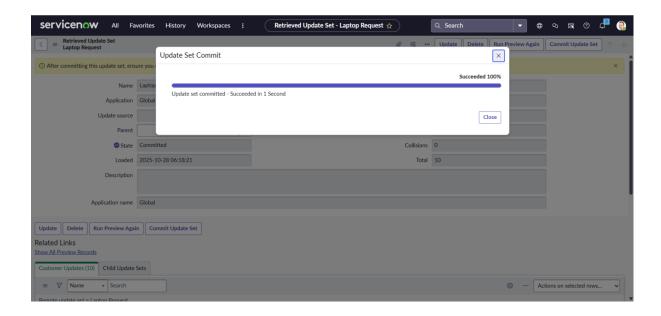
Related Links

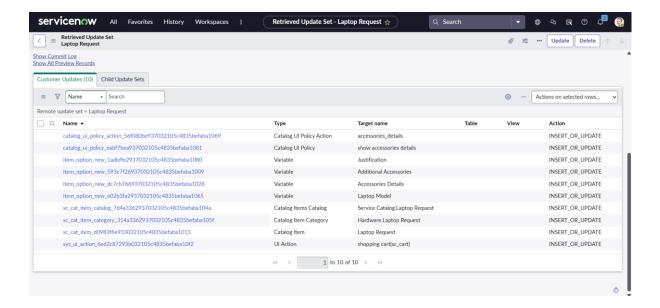
Import Update Set from XML











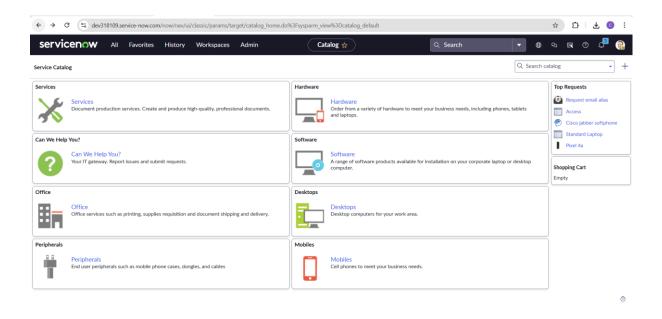
# **Testing**

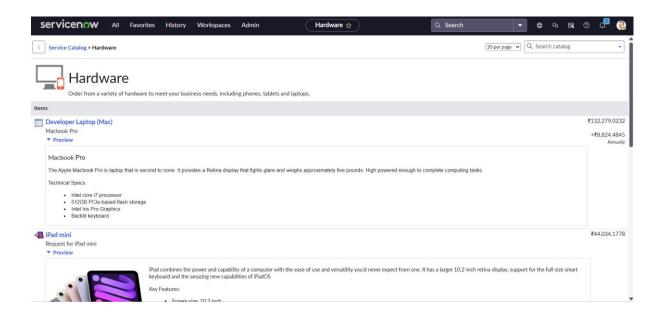
# **Test Catalog Item**

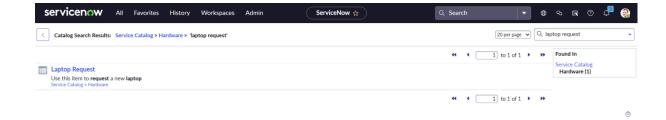
Duration: 1 Hrs

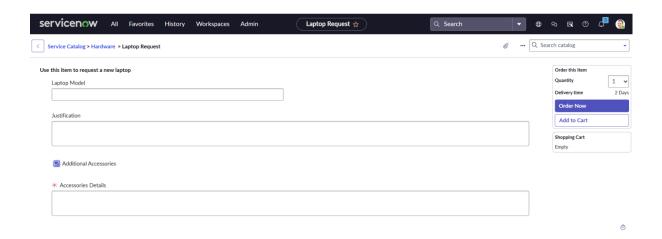
- 1. Search for service catalog in application navigator in target instance
- 2. Select catalog under service catalog

- 3. Select hardware category and search for 'laptop request' item
- 4. Select laptop request item and open it
- 5. It shows three variables only
- 6. As per our scenario, when we click on additional accessories checkbox then accessories details fields is visible and that should be mandatory
- 7. Now see the results, it fulfills our requirements.









#### **Conclusion:**

The Laptop Request Catalog Item project successfully streamlines the process of requesting laptops within the organization by leveraging ServiceNow's Service Catalog capabilities. Through the implementation of a dynamic catalog item, the project ensures that users have an intuitive and user-friendly interface, reducing errors and improving efficiency. This project demonstrates how ServiceNow can be used to replace manual, error-prone processes with automated, efficient, and user-centric solutions. It not only improves service delivery but also enhances employee satisfaction by providing a modern and streamlined request experience.