# **Asset Management Portall**

#### **Problem Statement:**

The Asset Management Portal will streamline the tracking, management, and allocation of both physical and digital assets across an organization. Employees will be able to request and receive assets through an intuitive portal, while administrators can manage the entire asset lifecycle, from procurement to disposal. The portal will also automate asset assignment, ensure accurate record-keeping, and generate real-time reports on asset utilization and condition. Alerts will be triggered for maintenance or replacement needs, ensuring optimal asset performance and reducing downtime. By centralizing asset management, the platform will improve operational efficiency, reduce asset loss, and support informed decision-making.

#### Create table

- 1. Open service now.
- 2. Click on All >> search for tables
- 3. Open System definition >> tables
- 4. Click on new
- 5. Fill in the details as

Name: asset inventory

- 6. Save the table
  - Asset Management Portal
    - Table

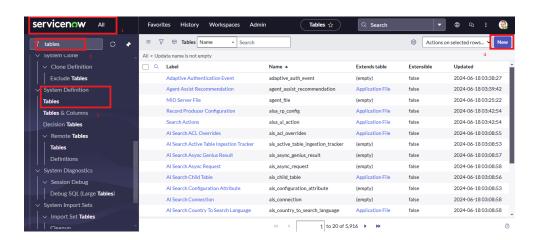
- Create table
- Create Fields
- Create UI Actions
- Scheduled Job
- Report
- Testing
- Conclusion

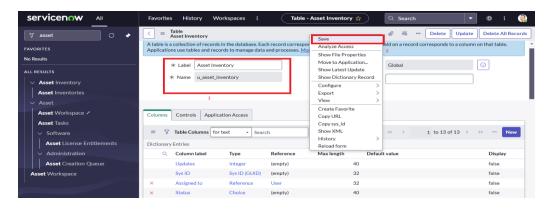
#### **Create table**

- 1. Open service now.
- 2. Click on All >> search for tables
- 3. Open System definition >> tables
- 4. Click on new
- 5. Fill in the details as

Name: asset inventory

6. Save the table





## **Create Fields**

- 1)After saving the table scroll down
- 2)Create fields
- Assigned to : string
- Status : choice
- Purchase date : date
- Warranty Expire : date
- Asset name : string
- Type: choice
- Number : String
  - 3) Click on save

## **UI Action 1**

- 1. Navigate to System Definition >> UI action
- 2. Click on New
- 3. Fill in the details;
- a. Name: Mark As Lost
- b. Table: Asset Inventory
- c. Action name: mark\_as\_lost

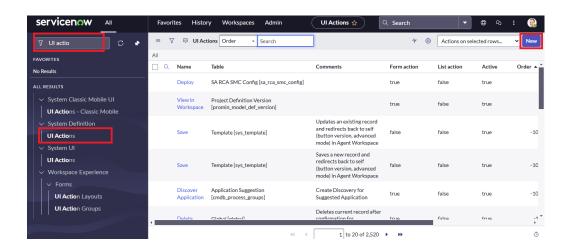
- d. Condition: current.u status!= 'Lost'
- e. Script:

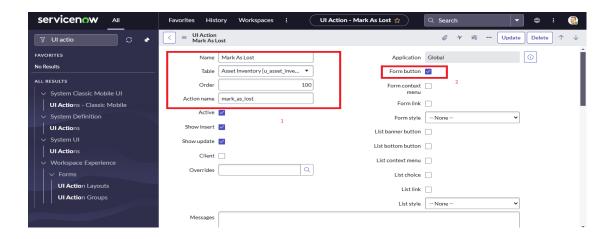
current.u\_status = 'Lost';

current.update();

action.setRedirectURL(current);

- 4. Check the form button box
- 5. Click on save





## **UI Action 2**

1. Navigate to System Definition >> UI action

- 2. Click on New
- 3. Fill in the details;

1. Name: Mark As Repaired

2. Table: Asset Inventory

3. Action name: mark\_as\_repaired

4. Condition : current.u\_status == 'Damaged' || current.u\_status
== 'Lost

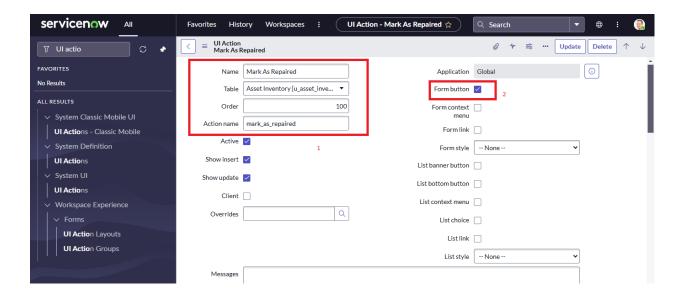
5. Script:

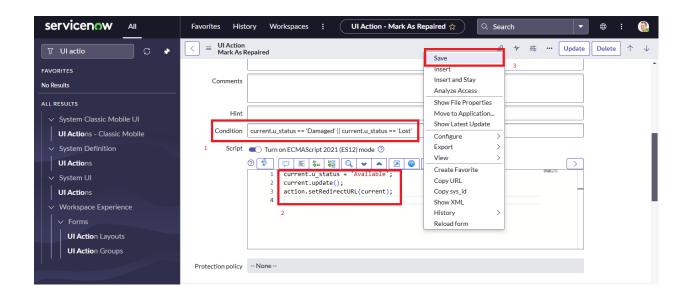
current.u\_status = 'Available';

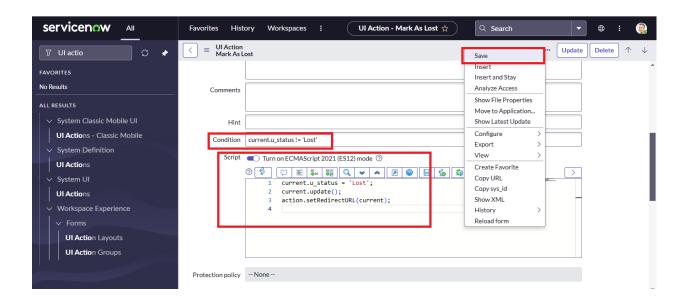
current.update();

action.setRedirectURL(current);

- 4. Check the form button box
- 5. Click on save







## **UI Action 3**

- 1. Navigate to System Definition >> UI action
- 2. Click on New
- 3. Fill in the details;
- a. Name: Mark As Dameged

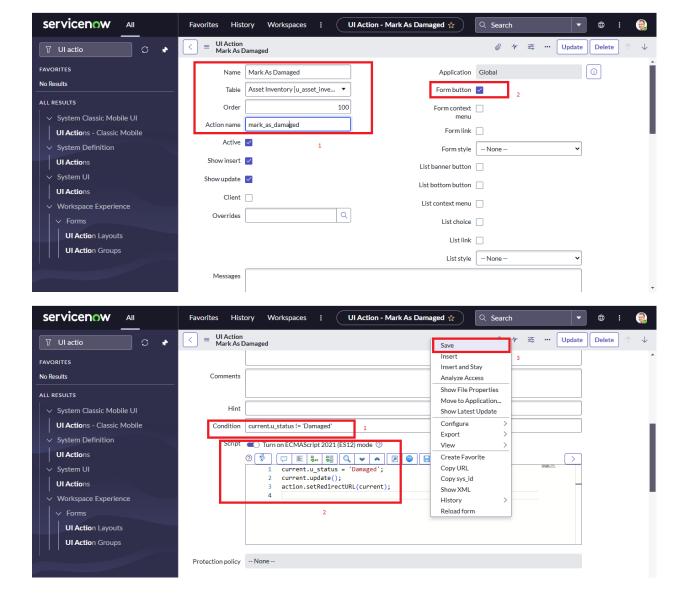
- b. Table: Asset Inventory
- c. Action name: mark\_as\_damaged
- d. Condition: current.u\_status!= 'Damaged'
- e. Script:

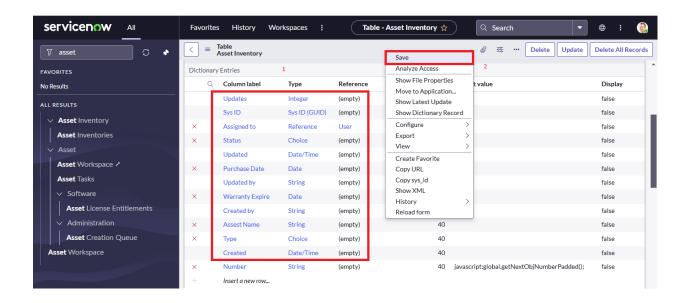
current.u status = 'Damaged';

current.update();

action.setRedirectURL(current);

- 4. Check the form button box
- 5. Click on save





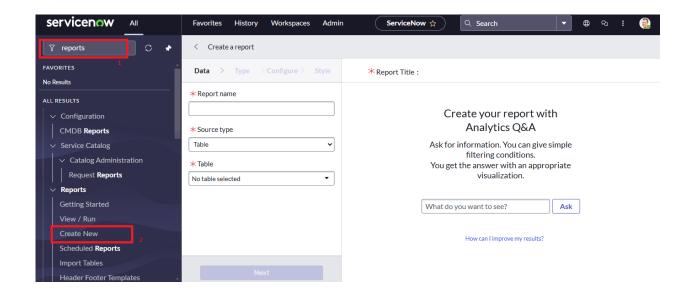
## **Create Scheduled Job**

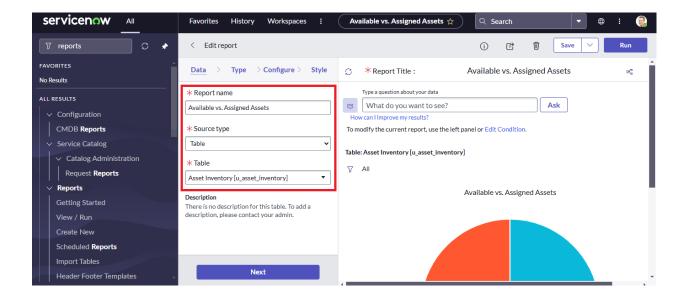
- 1. Navigate to System Definition >> Scheduled Job
- 2. Click on New
- 3. Name: Warranty Expiry Alert,
- 4. Run : Daily
- 5. Time: 12:00
- 6. Write the script
- 7. And click on save

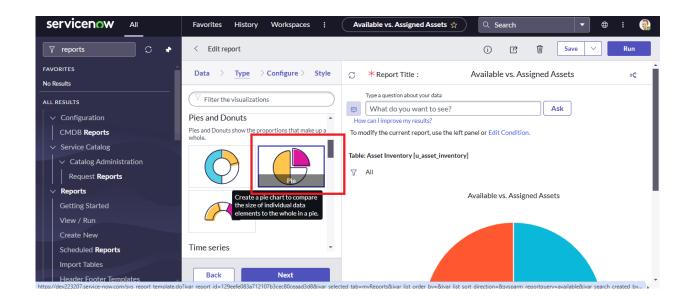
# **Create Report**

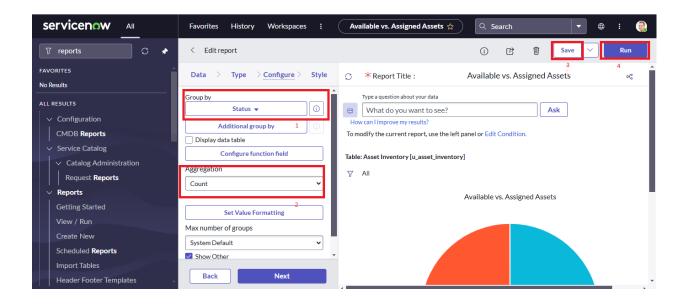
- 1. Navigate To Reports
- 2. Click on Create New
- 3. Report Name: Available vs assigned assets, Source Type: Table,
  - Table: Asset Inventory
- 4. Type: Pie Chart
- 5. Group By: Status, Aggregation: Count
- 6. Click on save

# 7. And then click on Run









# **Testing UI action**

- 1. Go to Asset Inventory table
- 2. Click on New
- 3. Fill in the details
- a) Asset name: Laptop
- b) Type: laptop

c) Assigned to : Abel Tutor

d) Status: Available

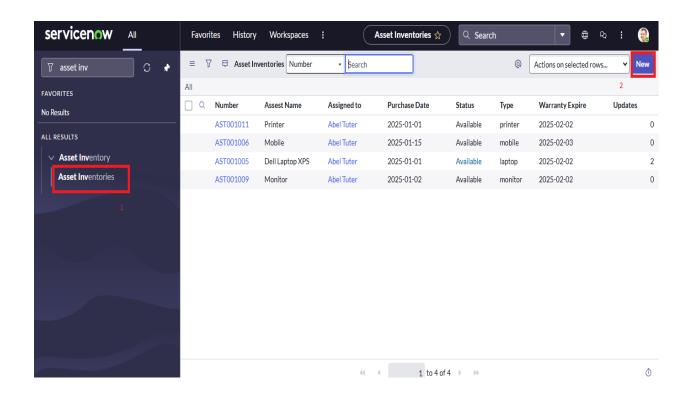
e) select some purchase and expiry date

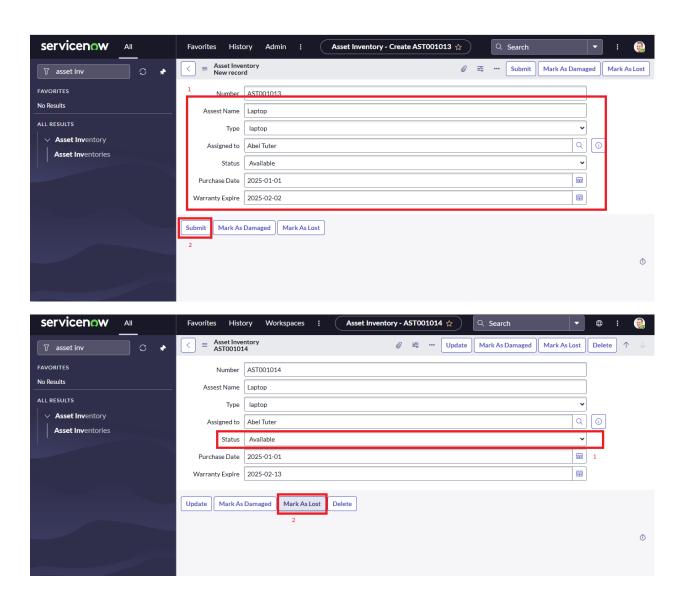
4. Click on submit

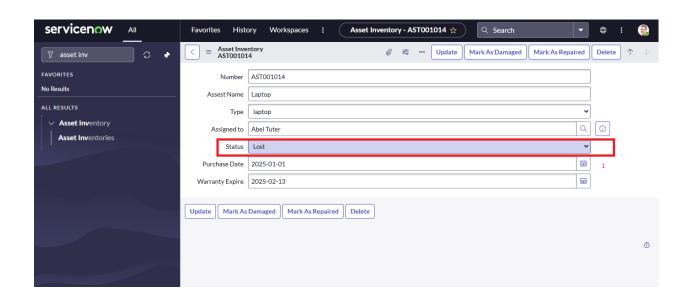
5. Open the record again

6. Click on mark as lost button and save

7. Check the status is changed to lost.

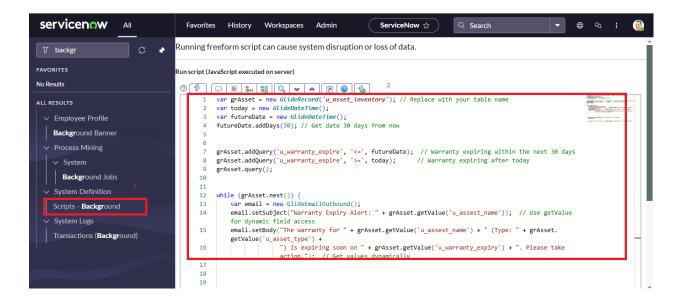


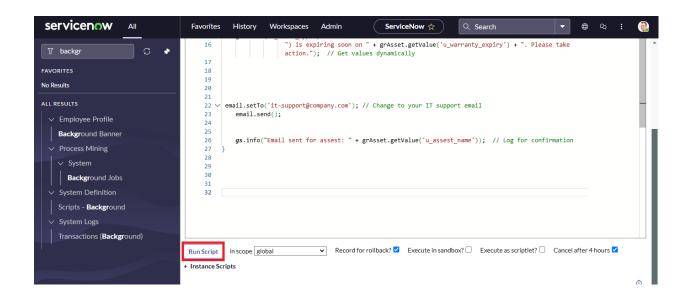


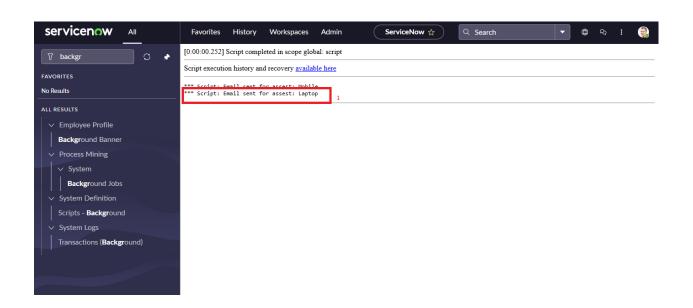


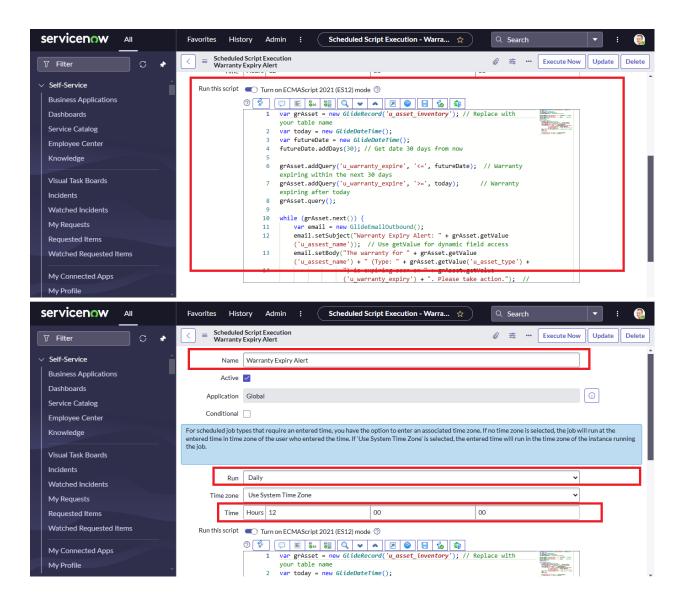
# **Testing Schduled Job**

- 1. Navigate to background scripts
- 2. Write the Scheduled job script in the background scripts
- 3. Click on Run Script
- 4. Check the result









#### **SCRIPT:**

var grAsset = new GlideRecord('u\_asset\_inventory'); // Replace with
your table name

var today = new GlideDateTime();

var futureDate = new GlideDateTime();

futureDate.addDays(30); // Get date 30 days from now

```
grAsset.addQuery('u warranty expire', '<=', futureDate); //</pre>
Warranty expiring within the next 30 days
     grAsset.addQuery('u warranty expire', '>=', today); // Warranty
expiring after today
     grAsset.query();
     while (grAsset.next()) {
       var email = new GlideEmailOutbound();
       email.setSubject("Warranty Expiry Alert: " +
grAsset.getValue('u_assest_name')); // Use getValue for dynamic field
access
       email.setBody("The warranty for " +
grAsset.getValue('u_assest_name') + " (Type: " +
grAsset.getValue('u asset type') +
               ") is expiring soon on " +
grAsset.getValue('u_warranty_expiry') + ". Please take action."); // Get
values dynamically
      email.setTo('it-support@company.com'); // Change to your IT
support email
       email.send();
       gs.info("Email sent for assest: " +
grAsset.getValue('u assest name')); // Log for confirmation
     }
```

#### Conclusion

The Asset Management Portal provides a comprehensive solution for tracking, managing, and optimizing physical and digital assets throughout their lifecycle. By leveraging automation and real-time data updates, the platform ensures efficient asset allocation, minimizes discrepancies, and enhances operational visibility. Automated workflows for asset tracking, maintenance alerts, and reporting enable organizations to make data-driven decisions, reduce asset downtime, and optimize resource utilization. This project demonstrates the power of ServiceNow's capabilities in integrating asset tracking, automation, and reporting tools to create a streamlined asset management system. By improving asset accountability and operational efficiency, the platform helps organizations maximize asset value, reduce costs, and enhance overall productivity