4.PROJECT DESIGN

TEAM ID	LTVIP2025TMID30940
PROJECT NAME	Asset Management Portal

Proposed Solution:

S.No	Parameter	Description
1	Problem Statement	Organizations often face challenges in tracking,managing,and maintaining their physical and digital assets,leading to asset loss,inefficiency and inaccurate records.
2	Idea/Solution	The proposed solution is an asset management portal ,a centralized and automated web based platform that streamlines the tracking.
3	Novelty/Uniqueness	The asset management portal stands out with its automation of the entire asset lifecycle,including real-time tracking,self-service asset requests.
4	Social impact/Customer satisfaction	The asset management portal improves organizational transparency and accountability,reducing asset misuse and promoting responsible resource utilization
5	Business model	The asset management portal follows a software-as-a-service business model.
6	Scalability of the solution	The asset management portal is highly scalable,capable of handling increasing numbers of users.

Asset Management Portal

Asset Management:

Asset Management is a platform designed to help organizations track, manage, and

optimize their IT assets throughout their lifecycle, from procurement to disposal. It provides a

centralized system for managing hardware, software, and cloud assets, offering features like

lifecycle management, cost tracking, compliance reporting, and automated workflows.

Importance:

1. Enhanced Visibility and Control.

2.Improved Asset Lifecycle Management.

3.Cost Optimization.

4. Enhanced Compliance and Security.

5.Improved Incident Management.

Milestone 1: Tables

Table is a structured container that holds records, similar to a database table. Each table

represents a specific type of data, like users, incidents, or assets, and is composed of rows

(records) and columns (fields).

Use

Tables are fundamental for organizing and storing data. They are essentially database tables that

hold records, similar to how a spreadsheet organizes information into rows and columns.

Activity 1: Create Table

Steps

1. Open service now.

2. Click on All >> search for tables

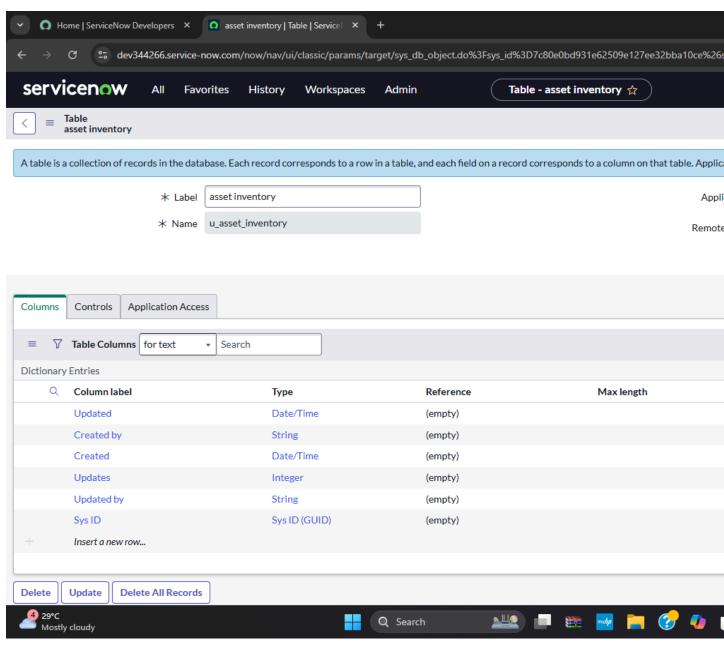
3. Open System definition >> tables

4. Click on new

5. Fill in the details as

Name: asset inventory

6. Save the table



Activity 2: Fields

Fields are individual data points within a record (like an incident or a problem) that store specific information. They are analogous to columns in a database table.

Use

Fields are used to store specific pieces of information within a record of a table. They act as containers for data, allowing users to input, view, and manage information relevant to the record.

Steps

1)After saving the table scroll down

2)Create fields

• Assigned to : string

• Status : choice

• Purchase date : date

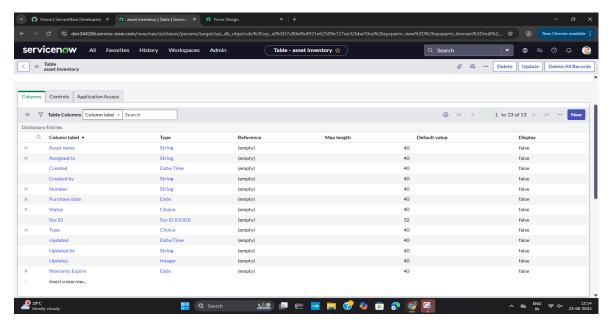
• Warranty Expire : date

• Asset name : string

• Type : choice

• Number : String

3) Click on save



Milestone 2: UI Action

UI actions are custom actions that allow users to interact with records on forms and lists, appearing as buttons, links, or context menu items.

Use

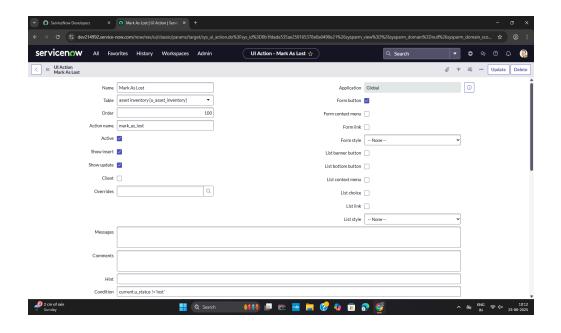
UI actions help streamline workflows, automate tasks, and improve user efficiency by providing quick access to common functions.

Activity 1: 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



Activity 2: UI Action 2

- 4. Navigate to System Definition >> UI action
- 5. Click on New
- 6. Fill in the details;
 - a. Name: Mark As Repaired
 - b. Table: Asset Inventory
 - c. Action name: mark_as_Repaired
 - d. Condition: current.u status = 'Lost' || current.u status=='Damaged'
 - e. Script:

```
current.u_status = 'Availablet';
current.update();
action.setRedirectURL(current);
```

- 6. Check the form button box
- 7. Click on save

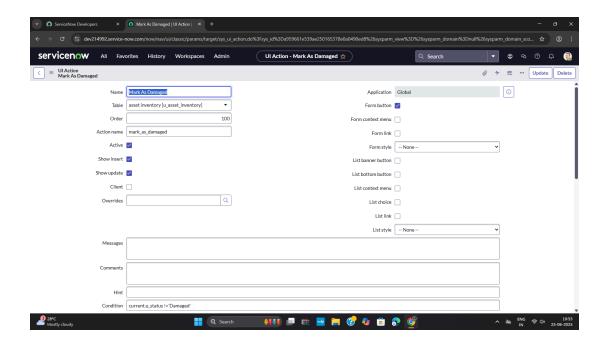
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⟨ ■ UI Action Mark As Repaired			0 +	莲 ··· Update	Delete			
Name	Mark As Repaired	Application	Global	0	î			
Table	asset inventory [u_asset_inventory] •	Form button	✓		_			
Order	100	Form context menu			_			
Action name	mark_as_repaired	Form link			_			
Active	▽	Form style	None •		_			
Show insert	✓	List banner button			_			
Show update	✓	List bottom button			ı			
Client		List context menu						
Overrides	Q	List choice						
		List link						
		List style	None •					
Messages								
Comments								
Hint								
Condition	current.u_status=='Damaged' current.u_status==	"Lost"						
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Activity 3: 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



Milestone 3: Scheduled Job

Scheduled job is a pre-defined task that executes automatically at a specified time or on a recurring schedule. These jobs automate various tasks, such as generating and distributing reports, creating and scheduling records, or running scripts.

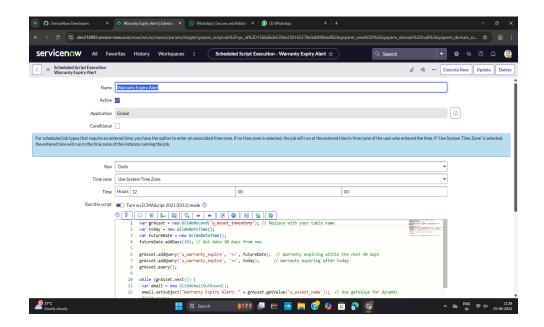
Use

Scheduled jobs are automated tasks that execute at a specified time or on a recurring schedule. They are used to perform various operations, including running scripts, generating reports, and creating records.

Step

- 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



Milestone 4: Report

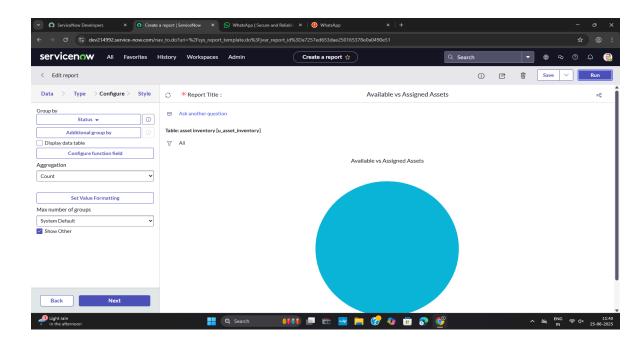
Reports allow users to analyze and visualize data from their instance. They can be used to identify trends, monitor performance, track progress, and more. Reports can be created, viewed, and run through the "Reports" module in the application navigator.

Use

Reports are used to extract, visualize, and analyze data from your instance. They allow users to gain insights, monitor performance, track trends, and make data-driven decisions.

- 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



Milestone 5: Testing

Testing involves ensuring the proper functionality and performance of the ServiceNow platform, including its applications, configurations, integrations and workflows.

Use

Testing ensures the quality, reliability, and security of applications built on the platform. It involves validating custom applications, configurations, integrations, and workflows before they are released to production.

Activity 1: Testing UI Action

Steps

1. Go to Asset Inventory table

2. Click on New

3. Fill in the details

a) Asset name: Laptop

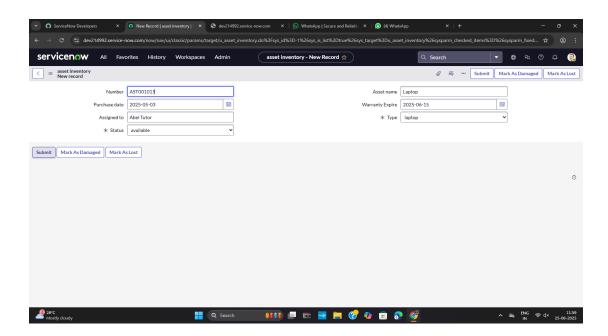
b) Type: laptop

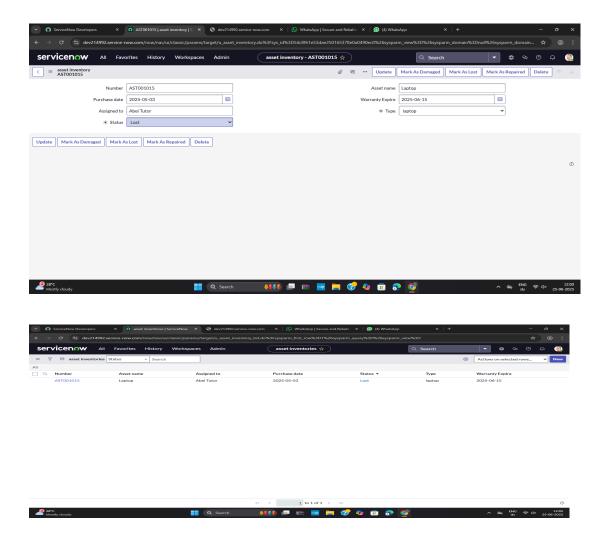
c) Assigned to: Abel Tutor

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.





Activity 2: Testing Scheduled 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

