# **PROJECT DESIGN**

TEAM ID	LTVIP2025TMID30733
PROJECT NAME	Asset Management Portal

# **Proposed solution:**

Project team shall fill the following information in the proposed solution template

S. No	Parameter	Description
1	Problemstatement	Organizations often face challenges in tracking, managing, and
	(problem to be solved)	maintaining their physical and digital assets, leading to asset
		loss, inefficiency, and inaccurate records. The lack of a
		centralized system results in poor visibility, delayed
		maintenance, and difficulty in asset allocation.
2	Idea / Solution description	The Asset Management Portal is a robust and centralized web
		application designed to optimize the management of both
		physical and digital assets within an organization. It enables
		automated asset tracking, real-time inventory updates, user-
		friendly self-service features, and smart alerts for maintenance
		and warranty. By reducing human error and manual workload,
		the portal enhances operational efficiency, promotes responsible
		asset usage, and ensures timely decision-making through
		insightful reporting dashboards.
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, and intelligent maintenance alerts.
4	Social Impact/Customer	The Asset Management Portal improves organizational
	satisfaction	transparency and accountability, reducing asset misuse and
		promoting responsible resource utilization
5	Business model (Revenue	The Asset Management Portal follows a Software-as-a-Service
	Model)	(SaaS) business model
6	Scalability of the Solution	The Asset Management Portal is highly scalable, capable of
		handling increasing numbers of users, assets, and organizational

data without compromising performance.

# **Asset management portal**

### What it does?

- **Tracks Assets**: Monitors location, status, and ownership of items like laptops, tools, or software licenses.
- **Manages Requests**: Employees can request assets; managers can approve or reject them through workflows.
- Schedules Maintenance: Sends alerts for servicing, warranty expiry, or calibration.
- **Generates Reports**: Provides visual insights into asset usage, availability, and performance.
- Ensures Compliance: Maintains logs and audit trails for regulatory and internal reviews.

## **Types:**

#### • Tables

• To store asset-related data in structured rows and fields.

#### • Fields

• Data points like asset type, status, purchase date, etc. used for tracking each record.

### • UI Actions

• Custom buttons like "Mark as Lost", "Mark as Damaged", "Mark as Repaired" for quick updates.

## • Scheduled Jobs

• Automated scripts that run at set intervals, like warranty expiry alerts.

### • Reports

• Visual data presentations such as pie charts comparing assigned vs available assets.

### • Testing Activities

• Verification steps for UI actions and scheduled jobs to ensure proper functionality.

# **Asset Management Portal**

**MILESTONE 1: TABLE** 

**Activity 1: create table** 

**PURPOSE:** 

The purpose of creating a table in the Asset Management Portal is to store and organize asset-related

data in a structured format. This table serves as the backbone of the portal's database, where each

asset record (like ID, name, type, owner, status, location, etc.) is stored in rows and columns for easy

access, tracking, and reporting.

**USE:** 

Central Data Storage: The table stores all asset information in a centralized and searchable format.

**STEPS:** 

1. Open service now.

2. Click on All >> search for tables

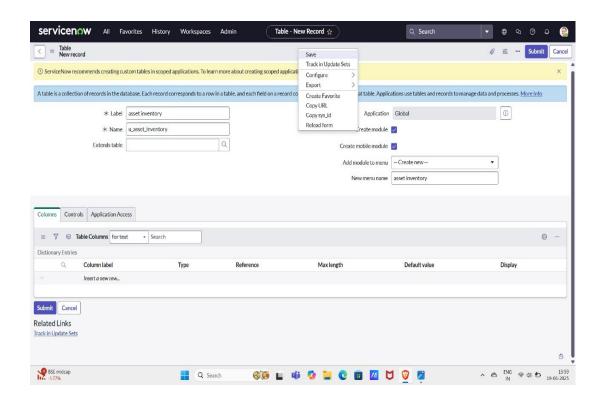
3. Open System definition >> tables

4. Click on new

5. Fill in the details as

a. Name: asset inventory

6. Save the table



# **MILESTONE 1: TABLE**

## **Activity 2: create fields**

#### **PURPOSE:**

To define specific data points (like asset name, type, status) that will be stored in each record of the table.

### **USE:**

Fields allow the portal to capture detailed asset information (e.g., serial number, owner, location) and enable accurate tracking, searching, filtering, and reporting of assets. They ensure that each asset entry is complete and consistent.

### **STEPS:**

1)After saving the table scroll down

#### 2)Create fields

• Assigned to: string

• Status: choice

• Purchase date: date

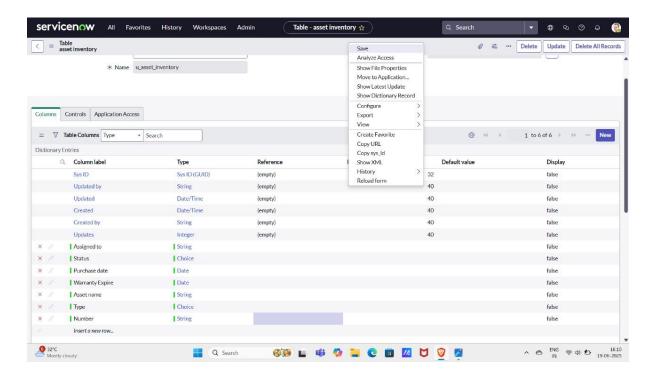
• Warranty Expire: date

• Asset name: string

• Type: choice

• Number: String

#### 3) Click on save



# **MILESTONE 2: UI ACTION**

**Activity 1: create UI action 1** 

## **PURPOSE:**

To add a custom button or link on a form or list that performs a specific action when clicked.

## **USE:**

UI Actions improve user interaction by allowing quick actions like "Assign Asset," "Return Asset," or "Request Approval" directly from the portal interface. This enhances usability and speeds up common tasks.

### **STEPS:**

1. Navigate to System Definition >> UI action

2. Click on New

3. Fill in the details;

Name: Mark As Lost

Table: Asset Inventory

Action name: mark\_as\_lost

Condition: current.u\_status != 'Lost'

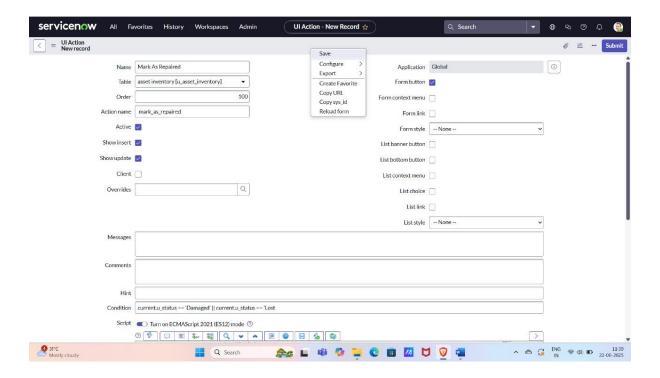
Script:

current.u\_status = 'Lost';

current.update();

action.setRedirectURL(current);

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



# **MILESTONE 2: UI ACTION**

**Activity 2: create 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'

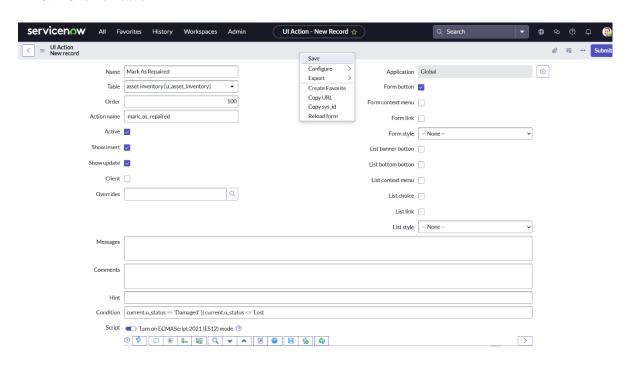
5. Script:

current.u\_status = 'Available';

current.update();

action.setRedirectURL(current);

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



## **MILESTONE 2: UI ACTION**

**Activity 3: create UI action 3** 

#### **STEPS:**

- 1. Navigate to System Definition >> UI action
- 2. Click on New
- 3. Fill in the details;

Name: Mark As Dameged

Table: Asset Inventory

Action name: mark\_as\_damaged

Condition: current.u\_status != 'Damaged'

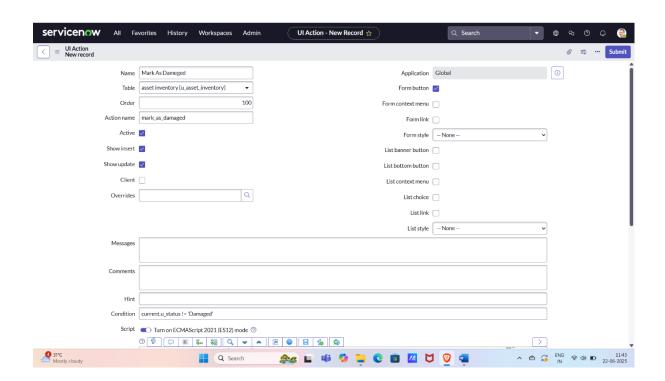
Script:

current.u\_status = 'Damaged';

current.update();

action.setRedirectURL(current);

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



## **MILESTONE 3: SCHEDULED JOB**

## Activity 1: create scheduled job

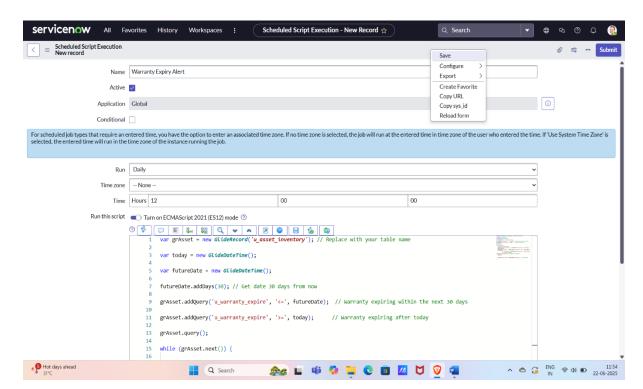
#### **PURPOSE:**

To automate tasks that need to run at specific times or intervals without manual intervention.

#### **USE:**

Scheduled jobs are used to automatically check asset status, send maintenance alerts, or generate daily/weekly reports, ensuring timely actions and reducing manual workload.

- 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**

# **Activity 1: create report**

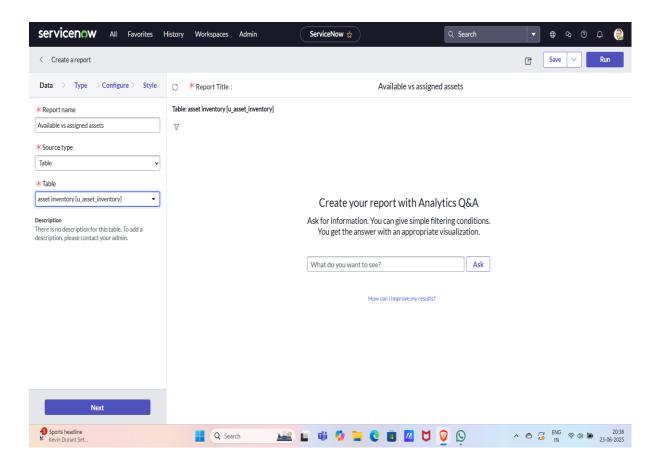
### **PURPOSE:**

To visually display and analyse data stored in the system for better decision-making.

## **USE:**

Reports help track asset usage, availability, maintenance status, and inventory trends. They support data-driven decisions, improve transparency, and assist in audits or reviews.

- 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**

**Activity 1: testing UI action** 

## **PURPOSE:**

To ensure that the UI action (button or link) works correctly and performs the intended function without errors.

## **USE:**

Testing UI actions like "Assign Asset" or "Return Asset" ensures the system responds correctly to user inputs, improves reliability, and provides a smooth user experience.

- 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 Tutors
- 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.

# **MILESTONE 5: TESTING**

# Activity 2: testing scheduled job

#### **PURPOSE:**

To verify that the scheduled job runs automatically at the set time and performs its task correctly.

#### **USE:**

Testing ensures that automated tasks like sending maintenance alerts or generating reports run as expected, helping maintain system accuracy and reducing manual effort.

- Navigate to background scripts
- Write the Scheduled job script in the background scripts
- Click on Run Script
- Check the result

