SERVICENOW PROJECT REPORT

Project Title: Asset Management Portal Team

Members:

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College Name: Aditya Engineering College

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GitHub Repository: https://github.com/satyanarayanareddysatti/Asset-Management-Portal/tree/main

1. Project Overview

The 'Asset Management Portal' is a custom-built ServiceNow application designed to track, manage, and automate the lifecycle of both physical and digital assets within an organization. It includes key features such as asset registration, status updates, automated warranty alerts, and administrative controls for damage and loss reporting.

2. Features Implemented

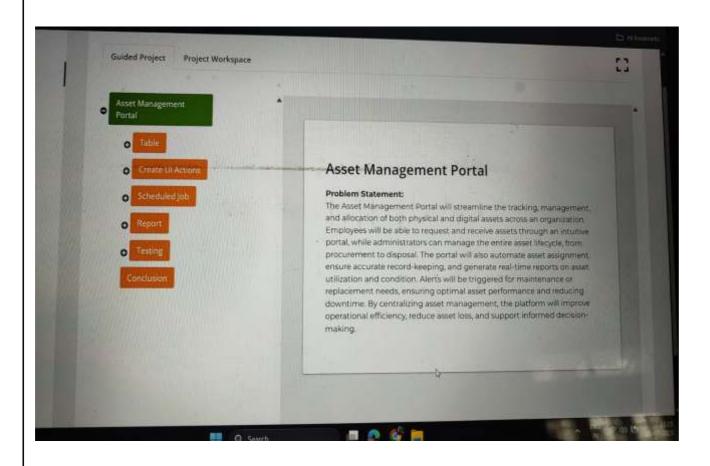
- Asset creation with fields like Asset Name, Type, Purchase Date, Warranty Expiry, etc.
- Choice fields for 'Type' and 'Status' (Available, Damaged, Lost).
- UI Action buttons 'Mark As Damaged' and 'Mark As Lost'.
- Automated background script to trigger email alerts before warranty expiry.
- Log tracking of script execution to ensure notifications are sent.

3. Script Automation

We wrote a GlideRecord script in the 'Scripts - Background' section of ServiceNow that checks all assets expiring within 30 days and automatically sends email alerts to IT support. Sample log outputs show successful email sends for each asset.

4. Conclusion

This project showcases practical knowledge of ServiceNow's capabilities, including form creation, Glide scripting, email, notification handling, and GitHub-based project documentation. We successfully designed a mini-ITSM module and demonstrated. its use with data and automation.

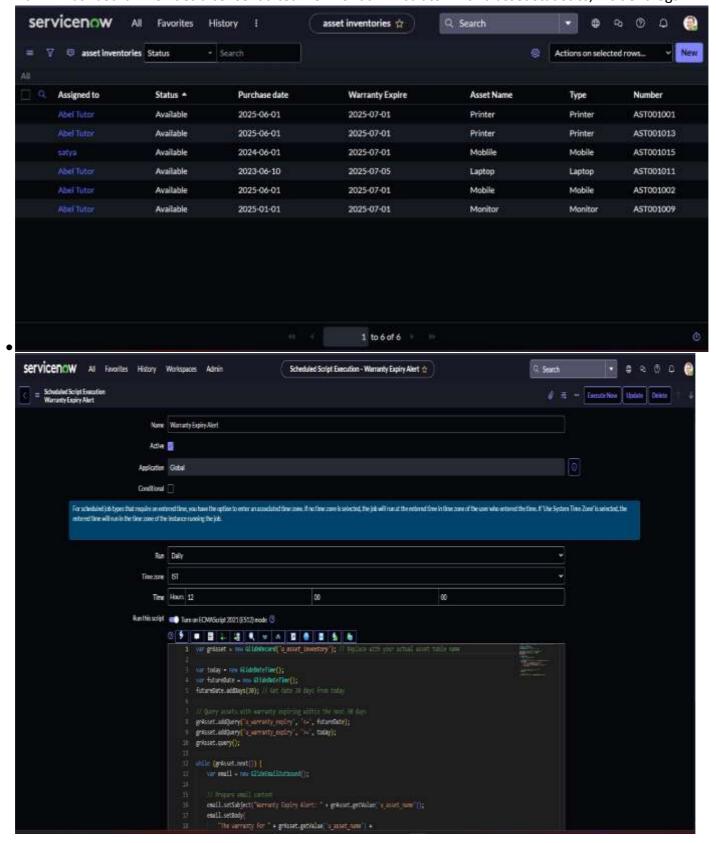


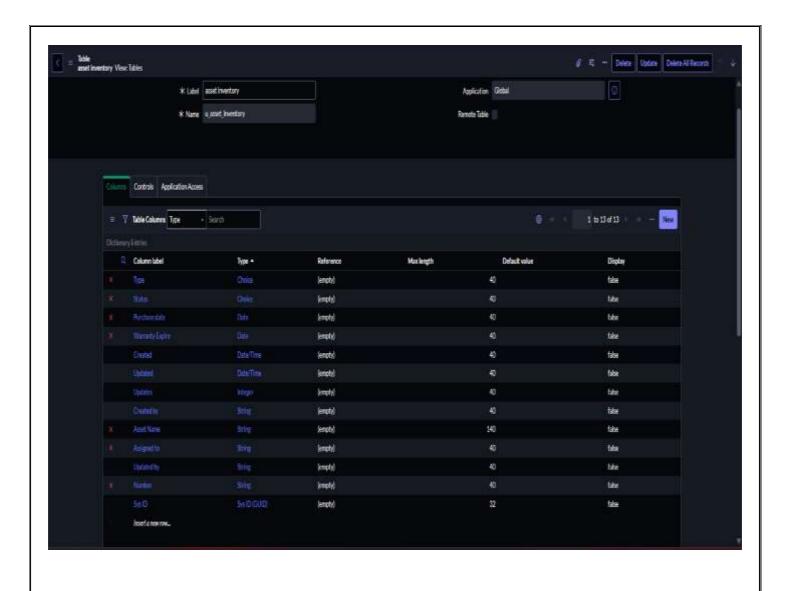


Modules in Detail

The Asset Management Portal consists of several key modules, each built using the ServiceNow platform

- Asset Registration Module: Captures all required information related to a new asset, such as asset nam
- Status Management Module: Allows tracking and updating the condition of each asset (Available, In Us
- Warranty Tracking Module: Automatically monitors asset warranty status and triggers alerts before expi
- Incident Reporting Module: Enables users to report asset-related incidents like loss or damage.
- Admin Dashboard: Provides a consolida ted view for administrator with a asset statistics, incident logs.



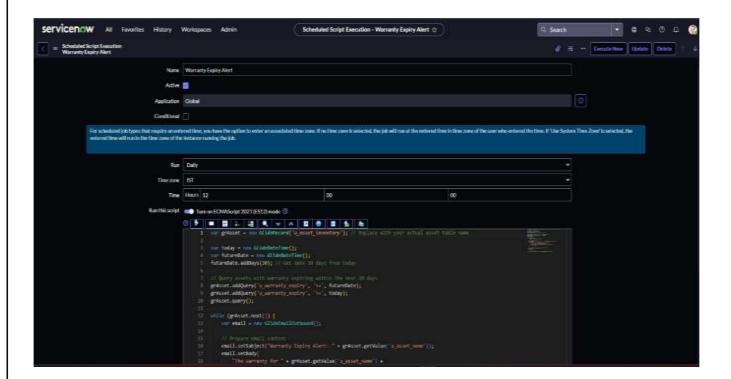


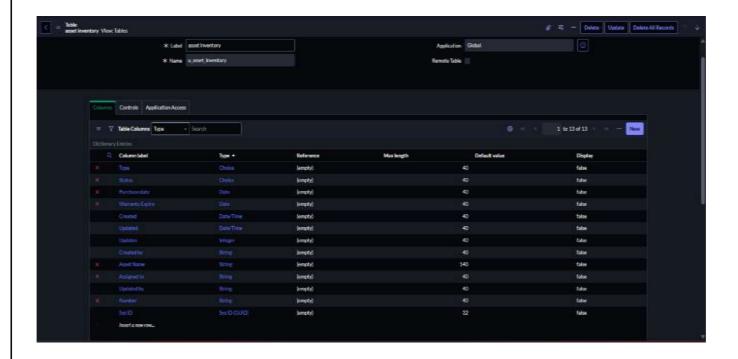
- Security and Access Control: Implemented using ro les. Only authorized users (admins) can update it. servicenow asset inventory - AST001011 🎡 Q Search All Favorites History : asset inventory AST001011 8 = - Update Mark As Dameged Mark As Lost Delete 1 Number AST001011 Purchase date (yyyy-MM-dd) 2023-06-10 Warranty Expire (yyyy-MM-2025-07-05 Laptop Assigned to Abel Tutor Update Mark As Dameged Mark As Lost Delete

5. Screenshots of Implementation

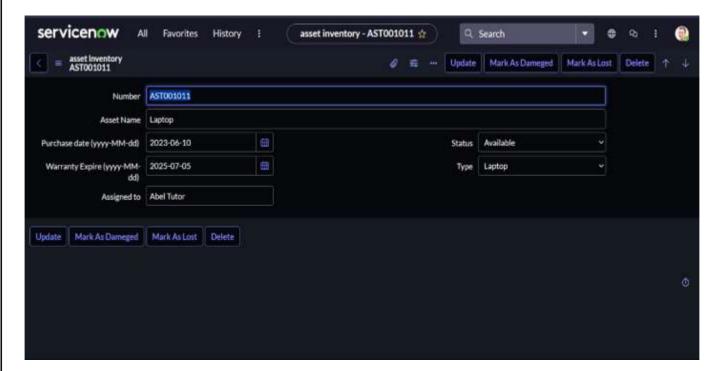
Below are a few implementation screenshots (you can insert your own here in the actual PDF):

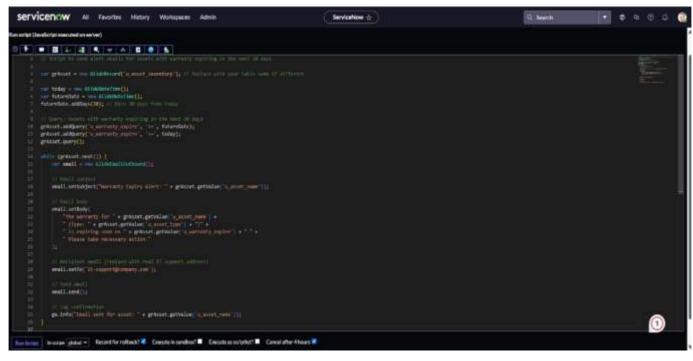
- 1. Asset Creation Form Interface showing dropdowns for status and type, and fields for warranty dates.
- 2. Incident Reporting UI Action Custom button to report damage/loss.
- 3. Script Execution Log Background script logs showing successful email sends.
- 4. Admin Dashboard Summary view with search and filter capabilities.





- 6. Challenges Faced and Solutions
- Challenge: Automating email notifications using Glide scripts.
- Solution: Carefully structured the GlideRecord loop and used gs.eventQueue() for email events. Verified
- Challenge: Managing asset status consistency across modules.
- Solution: Used Business Rules and Client Scripts to auto-update related fields and maintain data integri
- Challenge: UI Actions were not visible to all roles.
- Solution: Defined conditions under "UI Action





7. Future Enhancements

- Integration with CMDB: Extend the portal to link with Configuration Management Database for deeper I
- Asset History Tracking: Add functionality to track asset movement and changes over time.
- QR Code Integration: Generate QR codes for physical assets for quick scanning and tracking.
- Mobile View: Improve UI responsiveness for mobile devices.
- Reporting & Analytics: Build dashboards to visualize asset usage, damage trends, and budget impact. These

enhancements will further increase the value and usability of the Asset Management Portal.

