

ASSETPRO: IT ASSET MANAGEMENT APPLICATION

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ABSTRACT

In today's fast-paced technological world, managing IT assets effectively is essential for organizations to stay efficient, secure, and resourceful. This project introduces an IT Asset Management System, designed to simplify the management of hardware and software assets. The system is a web-based application built with Express.js for the backend and MongoDB for data storage, while the frontend is crafted using HTML and Tailwind CSS. The system caters to two user types: Admin and Employee. Admin users have a broad range of features at their disposal, including adding, updating, deleting, and searching for assets, managing user accounts, and assigning assets to employees. Employees, on the other hand, can access a dedicated dashboard to view their assigned assets and related information. A standout feature of this system is its intuitive interface combined with a solid backend structure, ensuring secure and efficient asset data handling. Additionally, the system's asset tracking module enables admins to monitor the status and location of assets in real-time, minimizing the risk of asset loss or misuse. This report covers the entire project development lifecycle, from gathering initial requirements to final implementation and testing. It also delves into the challenges faced during the process and the solutions implemented to overcome them, offering a detailed overview of the project and its outcomes.

CONTENTS

Contents	Page No.
ACKNOWLEDGEMENT	i
ABSTRACT	ii
LIST OF FIGURES	v
1 INTRODUCTION	1
1.1 Problem Statement	2
1.2 Objectives	3
2 Project Scope	5
2.1 Project Boundaries	5
2.2 Key Features and Functionalities	6
3 System Functionalities	8
3.1 Features and Functionalities	8
3.1.1 Signup and Login	8
3.1.2 Admin Dashboard	9
3.1.3 Employee Dashboard	12
3.1.4 System Security and Data Management	13
3.1.5 User-Friendly Interface	13
4 USE CASES AND USER STORIES	14
4.1 Use Cases	14
4.1.1 Use Case 1: Admin Login	14
4.1.2 Use Case 2: Add a New Asset	15
4.1.3 Use Case 3: Employee Views Assigned Assets	15
4.1.4 Use Case 4: Search Assets	16
4.2 User Stories	16
4.2.1 User Story 1: Admin Login	16
4.2.2 User Story 2: Add a New Asset	17
4.2.3 User Story 3: View Assigned Assets	17
4.2.4 User Story 4: Search Assets	17

5	CONCLUSION	19
6	Future Scope	20

LIST OF FIGURES

No.	Title	Page No.
3.1	Work Flow Diagram	8

INTRODUCTION

In today's digital world, effective IT asset management is crucial for organizations to optimize resources, reduce costs, and maintain compliance. IT assets, including hardware like computers and servers and software licenses, are vital to daily operations. Proper management ensures these assets are used efficiently and maintained appropriately.

The IT Asset Management System aims to streamline tracking and management of IT assets using a modern web technology stack: Express.js for the backend, HTML and Tailwind CSS for the frontend, and MongoDB for data storage. This system supports two user roles: Admin and Employee. Admins can manage assets, oversee user accounts, and track asset assignments, while Employees can view their assigned assets and access related information. Key features include:

- **Asset Management:** Admins can add, update, delete, and search for assets.
- **User Management:** Admins can create and manage employee accounts.
- **Asset Tracking:** Admins can assign assets to employees and track them.
- **Employee Dashboard:** Employees can view their assigned assets.

The backend, built with Express.js, handles server-side logic and API requests efficiently, while the frontend offers a clean, responsive interface. MongoDB provides a scalable and flexible solution for data storage.

Implementing this IT Asset Management System offers numerous benefits:

- **Enhanced Efficiency:** Streamlined processes reduce the time and effort required for asset management.
- **Cost Reduction:** Improved asset utilization minimizes redundancy.
- **Improved Compliance:** Accurate records help meet regulatory requirements.
- **Increased Accountability:** Clear visibility of asset assignments ensures employee responsibility.

In summary, the IT Asset Management System is a comprehensive tool for managing IT resources within an organization. Its modern technological foundation, user-centric design, and

extensive features ensure that it meets contemporary demands, driving efficiency, cost savings, and compliance.

1.1 Problem Statement

In today's fast-paced business environment, organizations rely heavily on a wide array of IT assets for daily operations. Managing these assets efficiently poses significant challenges. Traditional methods of asset management, such as spreadsheets and manual tracking, are prone to errors, time-consuming, and often lead to inefficiencies and increased costs. Without a centralized system, tracking the lifecycle of IT assets—from acquisition and deployment to maintenance and disposal—becomes difficult, resulting in poor utilization, redundant purchases, and compliance issues.

- **Lack of Real-Time Data:** Traditional methods do not provide real-time updates, leading to outdated information and delays in decision-making.
- **Inconsistent Data Entry:** Manual tracking often results in inconsistent and inaccurate data entry, affecting the reliability of asset records.
- **Limited Accessibility:** Access to asset information is often restricted to specific individuals or locations, hindering collaboration and efficient management.
- **Inefficient Maintenance Scheduling:** Without automated reminders and scheduling, maintenance tasks are often missed or improperly tracked, leading to increased downtime and asset degradation.
- **Difficulty in Tracking Depreciation:** Accurately tracking the depreciation of assets over time is challenging, impacting financial reporting and budgeting.
- **Security Risks:** Without a robust system, tracking the security status of IT assets, such as software updates and antivirus installations, becomes difficult, increasing vulnerability to cyber threats.
- **Ineffective Asset Recovery:** In cases of asset loss or theft, manual systems lack the capability to efficiently track and recover assets.

Purpose

The IT Asset Management System is designed to address the myriad challenges faced by traditional asset management methods. At the core of this solution is a centralized database that

serves as a repository for all asset-related information. This centralized approach enables real-time updates and provides easy access to data for all authorized users, ensuring that information is always accurate and up-to-date. Automated tracking processes further enhance this system by reducing manual entry errors and maintaining consistency in data management, which is crucial for reliable asset tracking. To ensure security and facilitate better collaboration, the system employs role-based access control, allowing asset information to be accessible only to authorized personnel. This not only enhances security but also promotes efficient collaboration among different departments within the organization. Overall, the IT Asset Management System offers a comprehensive solution that streamlines asset management processes, reduces costs, ensures compliance, and enhances security and accountability within the organization.

1.2 Objectives

The IT Asset Management System is designed to revolutionize the way organizations manage their IT assets, addressing common challenges faced by traditional asset management methods. This system aims to provide a comprehensive and streamlined approach to asset management, enhancing efficiency, security, and compliance. The specific objectives of the IT Asset Management System are as follows:

- **Centralization of Asset Information:**

- Establish a centralized repository for storing all asset-related data to ensure accuracy, consistency, and easy access for authorized users.

- **Automation of Asset Tracking:**

- Implement automated tracking processes to minimize manual entry errors, ensure data consistency, and provide real-time updates on asset status.

- **Enhanced Security and Compliance:**

- Utilize role-based access control to restrict access to sensitive asset information and ensure compliance with regulatory requirements.

- **Efficient Asset Recovery:**

- Enhance tracking capabilities to improve the efficiency of asset recovery in cases of loss or theft, minimizing the financial impact of such incidents.

- **User-Centric Design:**

- Develop an intuitive and user-friendly interface to facilitate ease of use for all stakeholders, promoting efficient asset management practices across the organization.
- **Operational Efficiency:**
 - Streamline asset management processes to reduce operational costs, eliminate redundancies, and improve overall organizational efficiency.

By achieving these objectives, the IT Asset Management System will provide a robust framework for managing IT assets, addressing the challenges posed by traditional methods, and driving efficiency, cost savings, and compliance within the organization.

PROJECT SCOPE

The IT Asset Management System is developed to enhance the management of IT assets in an organization. By centralizing asset data and automating processes, it aims to improve efficiency, reduce costs, and ensure compliance. This section outlines the project's core functionalities and boundaries.

2.1 Project Boundaries

The project will focus on the following key functionalities:

- **User Management:**

- Creating and managing user accounts for Admin and Employee roles.
- Implementing role-based access control for proper permissions.

- **Asset Management:**

- Adding, updating, deleting, and searching for IT assets.
- Keeping detailed records for each asset.

- **Asset Assignment:**

- Assigning assets to employees to ensure accountability.
- Tracking asset distribution within the organization.

- **Dashboard Views:**

- Providing dashboards for Admins and Employees.
- Allowing Admins to manage assets and users, and Employees to view assigned assets.

- **Authentication and Authorization:**

- Secure login functionality for authorized access.
- Role-based access control to ensure users access relevant functionalities.

- **Data Storage and Management:**

- Storing all data in a centralized MongoDB database.
- Ensuring data consistency and reliability.
- **User-Friendly Interface:**
 - Designing an intuitive and responsive interface using HTML and Tailwind CSS.
 - Ensuring ease of use for all stakeholders.

The project will not include:

- **Maintenance Management and Alerts:** The system will not handle scheduling and alerting for maintenance activities.
- **Financial Management and Depreciation Tracking:** The system will not track asset depreciation or provide financial insights related to budgeting and planning.
- **Asset Recovery Processes:** The system will not include functionalities for managing asset recovery in cases of loss or theft.

Defining these boundaries ensures a focused implementation that addresses key challenges of IT asset management while staying within scope. This approach delivers a robust solution tailored to the organization's needs.

2.2 Key Features and Functionalities

The IT Asset Management System incorporates several key features to ensure efficient and effective asset management:

- **Centralized Database:** A centralized repository for all asset-related information enables real-time updates and easy access for authorized users.
- **Automated Tracking:** Automated processes for asset tracking reduce manual entry errors and ensure data consistency.
- **User Roles and Accessibility:** Role-based access control ensures asset information is accessible only to authorized personnel, enhancing collaboration and security.
- **Asset Assignment:** The system facilitates the assignment of assets to employees, ensuring clear accountability and efficient tracking.
- **Dashboard Views:** Tailored dashboards for Admins and Employees provide easy management and visibility of assets.

- **Secure Authentication:** Secure login mechanisms protect system access, ensuring only authorized users can interact with asset data.
- **User-Friendly Interface:** Designed with an intuitive and responsive interface using HTML and Tailwind CSS to ensure ease of use for all stakeholders.

By achieving these objectives and incorporating these key features, the IT Asset Management System provides a solid framework for managing IT assets, addressing traditional method challenges, and driving efficiency, cost savings, and compliance within the organization.

SYSTEM FUNCTIONALITIES

This section outlines the key features and functionalities of the IT Asset Management System. It describes how the system works, what it does, and how it helps manage IT assets efficiently. We will also include use cases and user stories to show how these features apply in real scenarios.

3.1 Features and Functionalities

The IT Asset Management System is designed to manage IT assets effectively. It includes features for user management, asset management, asset assignment, dashboard views, authentication, data storage, and a user-friendly interface. Here's a summary of how these features work:

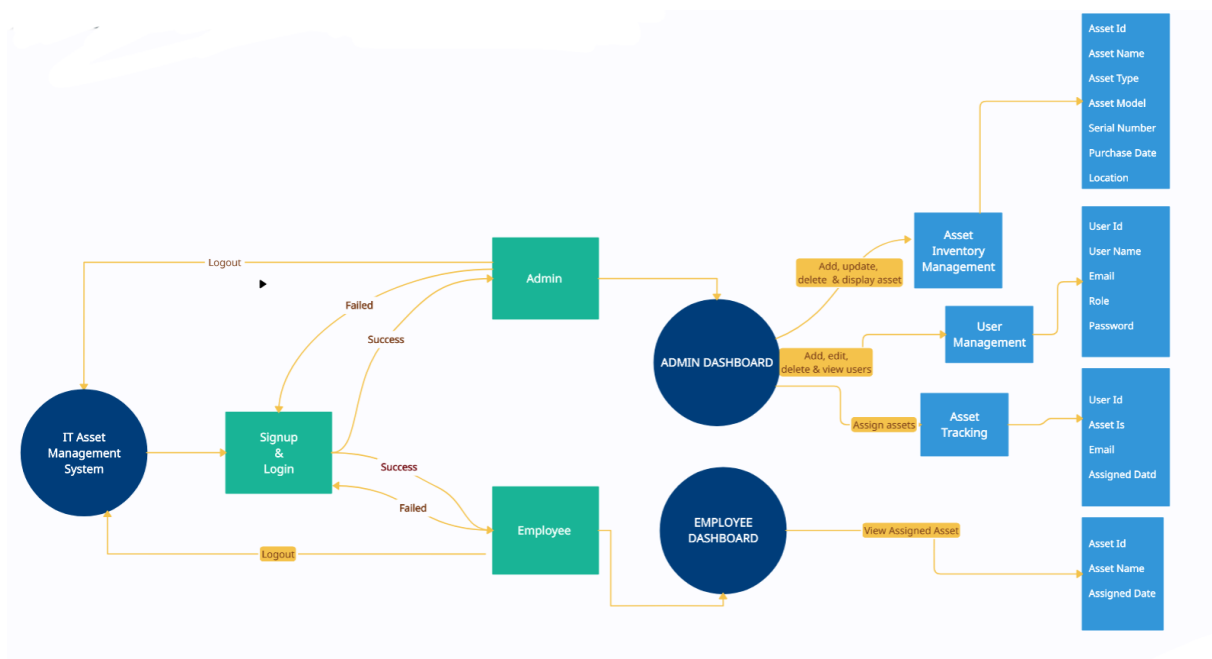


Figure 3.1: Work Flow Diagram

3.1.1 Signup and Login

The IT Asset Management System begins with the Signup and Login module. This module allows both Admins and Employees to create accounts and log into the system. The authentication process ensures that only authorized users can access the system, enhancing security. Users who fail to log in are prompted to retry or reset their credentials.

Process:

New users can sign up by providing necessary details such as email, role (Admin or Employee), and password. The system validates the information and creates a new account if the details are correct. Upon successful signup, users can proceed to the login page. Existing users can log in using their email and password. The system verifies the credentials and grants access based on the user's role:

- Users can sign up by providing necessary details.
- Upon successful signup, users can log in using their credentials.
- The system checks credentials and grants access based on the role (Admin or Employee)
- If the login is successful and the user is an Admin, they are redirected to the Admin Dashboard. If the login is successful and the user is an Employee, they are redirected to the Employee Dashboard.
- If the login fails, the user is prompted to retry.

3.1.2 Admin Dashboard

Once logged in, Admins are directed to the Admin Dashboard, which serves as the control center for all administrative tasks. The Admin Dashboard provides the following functionalities of Asset Management, User Management and Asset Tracking:

- **Asset Management:** Admins can add, update, delete, and search assets within the company's inventory.
- **User Management:** Admins can create and manage employee accounts, assigning roles and responsibilities as needed.
- **Asset Tracking:** Admins can assign assets to employees and track their usage and status.
- **Total Assets:** The Admin Dashboard includes a section that displays the total number of assets in the company.

Asset Inventory Management

The Asset Inventory Management module is a core component of the IT Asset Management System. It allows Admins to efficiently manage all aspects of IT assets within the organization.

This module ensures that detailed records of each asset are maintained and updated regularly. Admins can add, update, delete, and display asset information.

- **Add New Asset:** Admins can add new assets to the inventory by entering relevant details.

Required information includes:

1. **Asset ID:** A unique identifier for each asset.
2. **Asset Name:** The name of the asset.
3. **Asset Type:** The category of the asset (e.g., laptop, printer).
4. **Asset Model:** The model or version of the asset.
5. **Serial Number:** The serial number of the asset.
6. **Purchase Date:** The date the asset was purchased.
7. **Location:** The physical location where the asset is stored or used.

- **Update Existing Assets:** Admins can add new assets to the inventory by entering relevant details. Required information includes:

1. Admins can update the details of existing assets to reflect changes such as relocation, status updates, or repairs.
2. The system ensures that the latest information is available to all users.

- **Delete Assets:**

1. Admins can remove assets from the inventory when they are no longer in use or have been disposed of.
2. Deleting an asset requires confirmation to prevent accidental removal.

- **View and Search Assets:**

1. Admins can view a list of all assets in the inventory, complete with detailed information.
2. The search functionality allows Admins to locate specific assets quickly using filters and criteria such as asset name.

User Management

The User Management module is designed to handle all aspects of user accounts within the IT Asset Management System. This module ensures that only authorized personnel have access to the system and its data, enhancing security and control.

- **Add New Users:** Admins can create new user accounts by entering details such as:
 1. **User ID:** A unique identifier for the user.
 2. **User Name:** The name of the user.
 3. **Email:** The user's email address.
 4. **Role:** The role of the userEmployee
 5. **Password:** A secure password for the user's account.
- **Edit User Details:**
 1. Admins can update user information to reflect changes such as role adjustments, email updates, or name changes.
 2. The system ensures that the latest user information is accurately maintained.
- **Delete Users:**
 1. Admins can remove user accounts that are no longer active or necessary.
 2. Deleting a user requires confirmation to prevent accidental removal and to ensure that no critical data is lost.
- **View and Search Users:**
 1. Admins can view a list of all users in the system, complete with their details.
 2. The search functionality allows Admins to quickly find specific users based on criteria such as user name.
- **Role-Based Access Control:**
 1. Admins can assign roles to users, defining their access levels and permissions within the system.
 2. This ensures that users have access only to the functionalities relevant to their role, enhancing security and efficiency.

Asset Tracking

The Asset Tracking module is crucial for maintaining accountability and efficient management of IT assets. It allows Admins to track the distribution and usage of assets within the organization by assigning them to specific employees

- **Assign Assets to Employees:** Admins can assign assets to employees by entering details such as:
 1. **User ID** The ID of the employee receiving the asset.
 2. **Asset ID:** The ID of the asset being assigned.
 3. **Assigned Date:** The date on which the asset is assigned.
- **View Assigned Assets:**
 1. Admins can view a list of all assets currently assigned to employees.
 2. Detailed information about each assignment, including the employee's name and the asset details, is available for reference.

3.1.3 Employee Dashboard

Employees who successfully log in are directed to the Employee Dashboard, which provides a tailored view of their assigned assets. The employee accesses the login page and enters their credentials (email and password). Upon successful login, the employee is presented with the Employee Dashboard. The dashboard displays an overview of the employee's assigned assets data. The Employee Dashboard includes the following functionalities:

View Assigned Assets

Employees can view detailed information about the assets assigned to them. This information includes:

- **Asset ID:** The unique identifier of the asset.
- **Asset Name:** The name of the assigned asset.
- **Assigned Date:** The date when the asset was assigned to the employee. This feature allows employees to keep track of the assets they are responsible for, ensuring they can easily access the information they need to manage their assigned assets.

3.1.4 System Security and Data Management

The system incorporates robust security measures to protect sensitive asset information and user data. This includes:

- **Role-Based Access Control:** Ensuring that only authorized personnel can access specific functionalities and data.
- **Secure Authentication:** Implementing secure login mechanisms to prevent unauthorized access.
- **Centralized Database:** Storing all data in a centralized MongoDB database to ensure data consistency and reliability.

3.1.5 User-Friendly Interface

The system features an intuitive and responsive interface designed using HTML and Tailwind CSS. The interface ensures ease of use for all stakeholders, promoting efficient asset management practices across the organization.

By implementing these features and functionalities, the IT Asset Management System addresses the challenges posed by traditional asset management methods, driving efficiency, cost savings, and compliance within the organization. The detailed workflow diagram provides a visual representation of the system's processes, ensuring a clear understanding of how each component interacts to achieve the overall objectives.

USE CASES AND USER STORIES

This section outlines the key use cases and user stories for the IT Asset Management System. Use cases describe the interactions between users (actors) and the system, detailing the sequence of events and conditions required to achieve specific goals. User stories provide a narrative description of the system's functionality from the perspective of its users, highlighting their goals, motivations, and acceptance criteria. Together, these components offer a comprehensive understanding of the system's requirements, ensuring that it meets the needs of both administrators and employees. The following use cases and user stories illustrate the primary functionalities of the system, demonstrating how different users interact with the system to perform various tasks, including asset management, user management, asset tracking, and logout functionalities. The logout functionality ensures that users can securely exit the system, maintaining data integrity and security.

4.1 Use Cases

4.1.1 Use Case 1: Admin Login

- **Title:** Admin logs into the system.
- **Actors:** Admin.
- **Preconditions:** Admin has valid login credentials.
- **Flow of Events:**
 1. Admin navigates to the login page.
 2. Admin enters username and password.
 3. System verifies credentials.
 4. System redirects Admin to the Admin Dashboard.
- **Postconditions:** Admin is logged into the system and has access to the Admin Dashboard.
- **Exceptions:**
 - Invalid credentials: System displays an error message.
 - Network failure: System displays a network error message.

4.1.2 Use Case 2: Add a New Asset

- **Title:** Admin adds a new asset.
- **Actors:** Admin.
- **Preconditions:** Admin is logged into the system.
- **Flow of Events:**
 1. Admin navigates to the "Add Asset" page.
 2. Admin enters asset details (ID, name, type, model, etc.).
 3. Admin submits the form.
 4. System saves the asset in the database.
 5. System displays the updated asset list including the new asset.
- **Postconditions:** The new asset is added to the system and visible in the asset list.
- **Exceptions:**
 - Missing or invalid asset details: System displays an error message.
 - Database error: System displays an error message.

4.1.3 Use Case 3: Employee Views Assigned Assets

- **Title:** Employee views assigned assets.
- **Actors:** Employee.
- **Preconditions:** Employee is logged into the system.
- **Flow of Events:**
 1. Employee navigates to the Employee Dashboard.
 2. Employee selects the option to view assigned assets.
 3. System displays a list of assets assigned to the employee.
- **Postconditions:** Employee sees the list of assigned assets with relevant details.
- **Exceptions:**
 - No assets assigned: System displays a message indicating no assigned assets.
 - System error: System displays an error message.

4.1.4 Use Case 4: Search Assets

- **Title:** Admin searches for assets.
- **Actors:** Admin.
- **Preconditions:** Admin is logged into the system.
- **Flow of Events:**
 1. Admin navigates to the search bar.
 2. Admin enters search criteria (e.g., asset name).
 3. System displays matching assets based on the search criteria.
- **Postconditions:** Admin sees a list of assets matching the search criteria.
- **Exceptions:**
 - No matching assets: System displays a message indicating no results found.
 - System error: System displays an error message.

4.2 User Stories

4.2.1 User Story 1: Admin Login

- **Title:** Admin logs into the system.
- **User Role:** Admin.
- **Goal:** Log into the system to manage IT assets.
- **Reason:** To access and manage the IT assets efficiently.
- **Acceptance Criteria:**
 - Admin can enter username and password.
 - System verifies credentials.
 - Admin is redirected to the Admin Dashboard upon successful login.
 - Admin is shown an error message upon entering invalid credentials.

4.2.2 User Story 2: Add a New Asset

- **Title:** Add a new asset.
- **User Role:** Admin.
- **Goal:** Add a new asset to the system.
- **Reason:** To keep track of the organization's IT assets.
- **Acceptance Criteria:**
 - Admin can access the "Add Asset" page.
 - Admin can enter asset details (ID, name, type, model, etc.).
 - Admin can submit the form to add the asset.
 - The asset is saved in the database and visible in the asset list.

4.2.3 User Story 3: View Assigned Assets

- **Title:** View assigned assets.
- **User Role:** Employee.
- **Goal:** View a list of assets assigned to me.
- **Reason:** To know what assets I am responsible for.
- **Acceptance Criteria:**
 - Employee can log into the system.
 - Employee can access the Employee Dashboard.
 - Employee can see a list of assets with details (ID, name, assigned date).

4.2.4 User Story 4: Search Assets

- **Title:** Search for assets.
- **User Role:** Admin.
- **Goal:** Find specific assets using search criteria.
- **Reason:** To quickly locate and manage assets.
- **Acceptance Criteria:**

- Admin can enter search criteria (e.g., asset name) into the search bar.
- System displays a list of assets matching the search criteria.
- System shows a message if no matching assets are found.

CONCLUSION

The IT Asset Management System represents a comprehensive solution designed to address the complex challenges associated with managing IT assets within an organization. By implementing this system, organizations can benefit from enhanced efficiency, cost reduction, improved compliance, and increased accountability. The key requirements of the project include the development of a centralized database for storing asset-related data, automation of asset tracking processes, role-based access control for enhanced security, and a user-friendly interface. These requirements are met through various functionalities such as user management, asset management, asset assignment, dashboard views, secure authentication, and robust data storage. The objectives of the IT Asset Management System are clearly defined: to centralize asset information, automate asset tracking, enhance security and compliance, improve maintenance management, provide financial management insights, facilitate efficient asset recovery, and ensure operational efficiency. By achieving these objectives, the system not only streamlines asset management processes but also promotes efficient asset utilization and compliance with regulatory standards. In summary, the IT Asset Management System provides a robust framework for managing IT assets, addressing the limitations of traditional methods, and driving efficiency, cost savings, and compliance within the organization. The detailed features and functionalities, coupled with a user-centric design, ensure that the system meets contemporary demands and provides a scalable solution for future growth. The use cases and user stories further illustrate how different users interact with the system to achieve their goals, ensuring that the system is tailored to the needs of both administrators and employees. This comprehensive approach ensures that the IT Asset Management System delivers tangible benefits and contributes to the overall success of the organization.

FUTURE SCOPE

The IT Asset Management System, as currently implemented, provides a robust framework for managing IT assets within an organization. However, there are several opportunities for future enhancements and expansions to further improve its functionality and adapt to evolving organizational needs. The following areas outline the future scope of the system:

Maintenance Management and Alerts

Future iterations of the system could include comprehensive maintenance management features. This would involve automated scheduling of maintenance activities, real-time alerts for upcoming maintenance, and detailed tracking of maintenance history. These additions would help ensure that IT assets are kept in optimal condition, reducing downtime and extending asset life.

Asset Recovery Processes

Future versions of the system could incorporate advanced asset recovery processes to handle loss or theft. This could include GPS tracking, integration with security systems, and automated reporting of missing assets. These enhancements would help minimize financial losses and improve overall asset security.

Integration with Other Systems

Expanding the system to integrate with other enterprise systems such as ERP (Enterprise Resource Planning), HRM (Human Resource Management), and procurement systems could provide a more holistic view of asset management. This would enable seamless data exchange and more coordinated management processes across the organization.

In conclusion, the future scope of the IT Asset Management System involves expanding its functionalities, integrating with other systems, enhancing user experience, and incorporating advanced technologies to ensure it continues to meet the dynamic needs of organizations. By pursuing these enhancements, the system will not only provide immediate benefits but also offer long-term value and adaptability in the ever-changing landscape of IT asset management.

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