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# **Introduction**

This document is originally prepared to describe the high-level features and scope of the project named “**AssetIn**”. It encompasses several essential sections including the purpose, problem statement, proposed solution, user classes and characteristics, system scope, and user-specific system features.

## **Purpose**

The core aim of this document is to explain the high-level scope and provide high-level features needed for the project **“AssetIn”**. However, it may require modifications to fully meet the system's expectations. Therefore, FYP students need to conduct thorough research and explore the detailed aspects of the project. This document will help the design and development team to understand the product requirements. Additionally, experts from ZAPTA Technologies will collaborate with FYP students, and a beta version of this project will also be implemented at ZAPTA Technologies.

## **Problem Statement**

The current landscape of asset management tools presents a significant challenge for organizations. Existing solutions are overly complex, leading to inefficiencies and frustration among users. Employees find it difficult to navigate through complex interfaces and functions, which makes it hard for them to manage assets effectively. Moreover, many systems fail to adequately address the specific needs of the organization. Thus, there is an urgent need for a simplified asset management tool to streamline operations and deliver a user-friendly experience for all stakeholders.

Furthermore, the weaknesses in current asset management systems make organizational challenges more difficult to overcome. To address these issues and ensure effective asset management, there is a need to develop a simple comprehensive asset management system tailored to specific requirements. Such a system would empower users with intuitive features and functionalities, facilitating seamless asset tracking, maintenance, and analysis to support informed decision-making and enhance overall organizational performance.

### **Proposed Solution**

To address the identified shortcomings in existing asset management systems, our proposed solution aims to revolutionize the landscape of asset management systems by offering a simplified asset management tool.

### **User Classes and Characteristics**

|  |  |  |
| --- | --- | --- |
| **Sr. No** | **User Classes** | **User Characteristics** |
|  | **Organization Owner** | The organizational owner will be able to oversee asset management with dashboard insights and intuitive tools for controlling asset categories, profiles, and metrics, alongside organizational settings and user management. |
|  | **Asset Manager** | The asset manager will be able to access a streamlined dashboard for tracking asset metrics and managing asset categories, profiles, and statuses efficiently. |

### **System Scope**

The **“AssetIn”** will be a comprehensive solution for organizations seeking to efficiently manage assets. The system will have two main user roles: Organization Owner and Asset Manager, each equipped with role-specific functionalities. Admin can manage organizations, administer profile settings, and view comprehensive statistics on the dashboard, including total assets, fixed assets, and variable assets. Detailed graphs provide insights into fixed and variable asset categories and prices. Organization Owners can also oversee asset manager profiles, main and sub-category management, and asset profiles, facilitating granular control over asset information. Additionally, Organization Owners have access to a range of tools to enhance fixed asset management, including the ability to view fixed asset categories and sub-categories, assign assets to specific floors, and track asset status and statistics. Similarly, they can oversee variable asset categories, search sub-categories, and monitor variable asset status and statistics. The platform prioritizes user-friendly navigation and intuitive features, ensuring Organization Owners can efficiently manage assets while maintaining data integrity and accuracy. For Asset Managers, the system offers functionalities such as dashboard access, and comprehensive tools for managing fixed and variable assets, including category and sub-category management, asset profile management, and status updates. Advanced search and filter options enhance asset tracking and management efficiency, ultimately supporting informed decision-making and organizational performance improvement. We can consider extending the organizational owner functionalities to incorporate pricing subscriptions, asset maintenance, and scheduling features in future updates. Additionally, introducing a centralized Super Admin dashboard could streamline administrative tasks and provide enhanced oversight across the platform.

## **High-Level System Features**

### **Features for Organization Owner**

* Sign up/Sign in with Google
* Admin profile settings (View, update personal details)
* Manage organizations (CRUD)
* View statistics on the dashboard (total assets, fixed assets, variable assets)
* View the fixed assets graph by category and price on the dashboard
* View the variable assets graph by category and price on the dashboard
* Manage asset manager profile (CRUD)
* Manage main-category and sub-category (CRUD)
* Manage asset profile (CRUD)
* View fixed assets categories (furniture, electronics, kitchen items, stationary, etc.)
* View sub-categories of fixed assets and filter by different parameters
* View list of fixed assets (sr.no, status, department name, floor, description, total count, price per chair, total amount, dealer name, vendor name, vendor address, vendor contact, status)
* Assign fixed assets to floor
* View stats of fixed assets (Assigned/InStock/Damaged/Dead)
* View variable asset categories (Laptops, Headphones, LEDs, etc.)
* Search sub-categories of variable assets
* View list of variable assets (sr.no, Brand name, department name, specification, assigned, employee designation, employee contact, employee ID card, employee address, cost, dealer name, vendor name, vendor address, vendor contact, status)
* View stats of variable assets (in stock, assigned assets, damaged)
* View the status of variable assets (in stock, assigned, damaged)
* Manage organization profile (view, edit, delete)
* Logout

### **Features for Asset Manager**

* Get the verification link, reset your password, and view the dashboard
* View statistics on dashboard (total assets, in stock, assigned, fixed assets, variable assets)
* My profile (Update name, picture, password)
* Manage fixed assets categories and sub-categories (add, view, edit, delete)
* Manage fixed asset profile and assign to floor (add, view, edit, delete)
* View stats of fixed assets (Assigned/InStock/Damaged/Dead)
* Update the status of fixed assets (Assigned/InStock/Damaged/Dead)
* View list of fixed assets (sr.no, status, department name, floor, description, total count, price per chair, total amount, dealer name, vendor name, vendor address, vendor contact, status)
* Search fixed assets with advanced filters
* Manage variable assets categories and subcategories (add, view, edit, delete)
* Manage variable assets profile and assign to employee (add, view, edit)
* View list of variable assets (sr.no, Brand name, department name, specification, assigned, employee designation, employee contact, employee ID card, employee address, cost, dealer name, vendor name, vendor address, vendor contact, status)
* View stats of variable assets (Assigned/InStock/Damaged/Dead)
* Search variable assets with advanced filters
* Update the status of variable assets (Assigned/InStock/Damaged/Dead)
* Logout

## **Non-Functional Requirements**

**Assignment Task:** Final year students are required to research and document the non-functional requirements. Additionally, experts from ZAPTA Technologies will collaborate with FYP students, and a beta version of this project will also be implemented at ZAPTA Technologies.

## **Tools & Technologies**

* **Figma:** UI design tool for creating intuitive and visually appealing design interfaces.
* **Confluence/JIRA:** Collaborative platforms for documentation and efficient project management.
* **React JS:** JavaScript library for developing dynamic and interactive user interfaces
* **Node JS:** Technology for back-end development
* **MySQL:** Use MySQL for database.

## **Terms & Abbreviations**

|  |  |  |
| --- | --- | --- |
| **Sr. No** | **Term** | **Description** |
|  | **Fixed Assets** | Fixed assets are long-term tangible assets owned by a company for ongoing use in its operations, such as land, buildings, and machinery. |
|  | **Variable Assets** | Variable assets refer to assets that can fluctuate, such as laptops, PCs, and headphones, whose quantities and values are subject to change over time due to factors like usage, depreciation, and market demand |

**Note:** Final year students are required to thoroughly research the features of asset management tools. Additionally, experts from ZAPTA Technologies will collaborate with FYP students, and a beta version of this project will also be implemented at ZAPTA Technologies.