

IT Asset Management System



AGENDA

- The Problem & Solution
- Project Toolkit
- High-Level Overview
- Forms Submission
- Logs
- Navigation Demo
- Wrap Up & Future Features





The Problem & Solution





Inventory Management System Access

Login

Username

Password

Login

Organizations, especially small to mid-sized businesses, often rely on spreadsheets or manual tracking to manage their IT hardware. This leads to:

- Lost or unaccounted-for assets
- Inaccurate reporting on value or condition
- No clear assignment history or accountability
- Difficulties in managing routine maintenance

This system solves those challenges by providing a **centralized, web-based platform** for efficient asset oversight, reducing manual errors and improving IT operational control.



Project Tool kit



Languages & Software Tool Kit

Programming Languages:

- PHP
- SQL
- Javascript (JS)
- CSS/HTML



Software:

- Visual Studio Code
- MySQL
- PhpMyAdmin
- XAMPP -> AWS





High-Level Overview



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IT Asset Management

Inventory

Unassigned

Assigned To

Assign Asset

Assign Maintenance

Maintenance History

Assignment History

Add Asset

Add Employee

Sign Out

Nav Bar with easy access to tools and forms

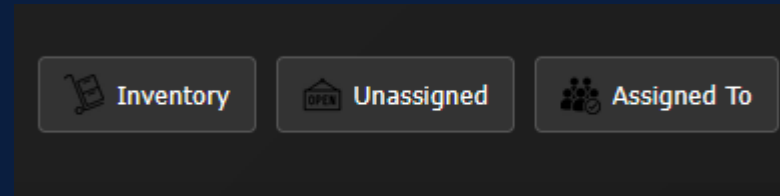
Search by asset name, tag, assigned user...

Search Bar for quick asset identification and assignment

Name	Asset Tag	Assigned To	Last Updated
Dell Latitude 5520	LT-001	Alice Nguyen	2025-05-26 19:09:37
Logitech MX Keys	KB-755	Alice Nguyen	2025-07-19 15:27:52
LG UltraFine Monitor	MN-100	Brian Jackson	2025-05-26 19:09:37
Ubiquiti UniFi Dream Machine	RT-789	Carla Torres	2025-07-20 16:55:53
Dell P2723QE	MN-200	Derek Stone	2025-07-20 16:26:15

Simple table depicting pertinent information

Inventory Button: Full unfiltered asset table. (can be filtered/sorted alphabetically by Employee name)



Unassigned Button: Displays only unassigned Assets

Assigned To Button: Displays only assigned Assets and who they are assigned to



Forms submission



IT Asset Management

- **Assign Asset**

- Allows for asset assignment

➡ Assign Asset

- **Assign Maintenance**

- Allows admin to assign an asset for maintenance (RMA) or can be used to remove an asset from an employee (termination, retirement, etc.)

🔧 Assign Maintenance

- **Add Asset**

- Allows admin to add new assets to the Inventory

⊕ Add Asset

- **Add Employee**

- Allows admin to add new employees for asset assignment

⊕ Add Employee



IT Asset Management

Assign Asset to Employee

Select Employee:

Alice Nguyen

Select Unassigned Asset:

Netgear Nighthawk X6 (RT-340)

Assign

⇒ Assign Asset

Submit Maintenance Log

Select Asset:

Dell Latitude 5520 (LT-001)

mm / dd / yyyy

Describe the issue...

Resolution (if any)...

Cost

Performed by

Submit Log

🔧 Assign Maintenance

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IT Asset Management

Add New Asset

Asset Tag (MC=Microphone, MN=Monitor, KB=Keyboard, RT=Router, MS=Mouse) ...

Asset Name

Category

Description

mm / dd / yyyy

Original Cost

Current Value

Available

Add Asset

+ Add Asset

Add New Employee

First Name

Last Name

Department

Email

Add Employee

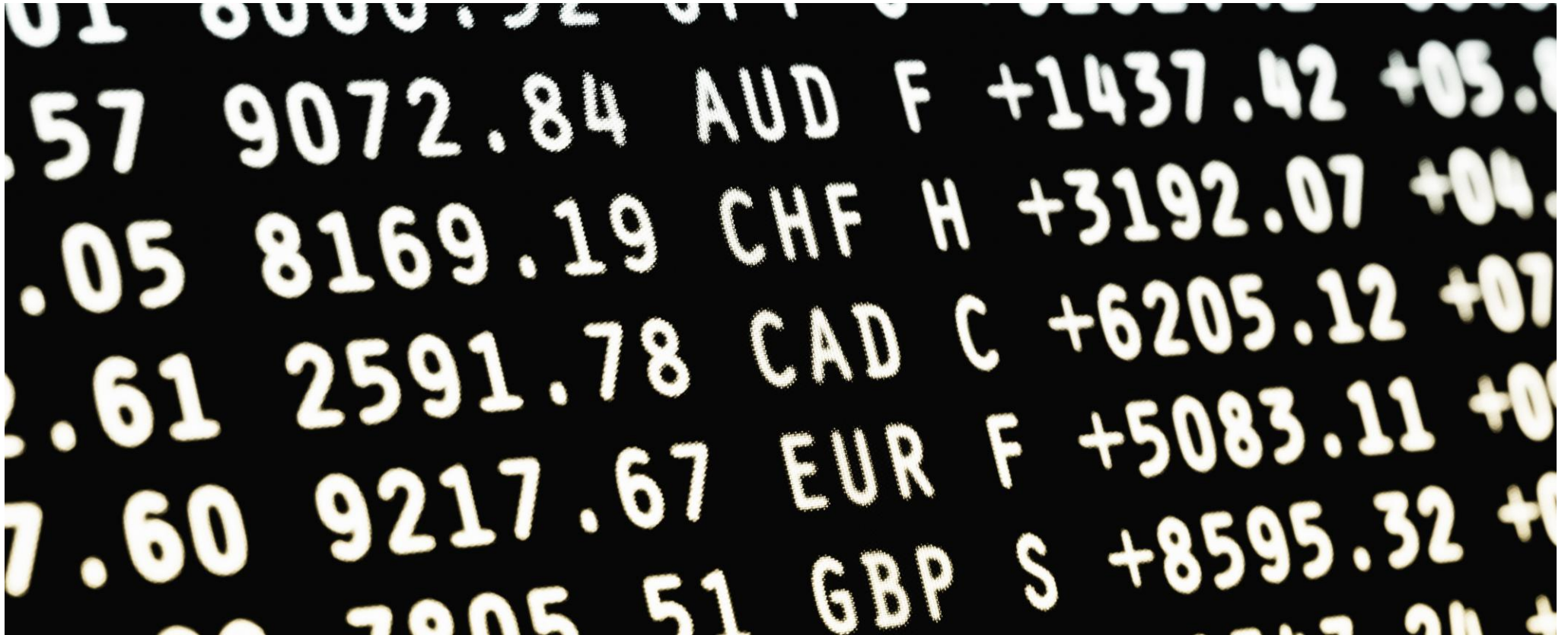
+ Add Employee



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Logs



- **Maintenance History**

- Displays all maintenance history logs that were submitted from Assign Maintenance form (exportable as CSV)

Maintenance History

Maintenance Log Records

[Download as CSV](#)

Asset Name	Asset Tag	Date	Issue	Resolution	Cost	Performed By
Netgear Nighthawk X6	RT-340	2025-07-20	Dead, receiving no power	Deprecation	0.00	Admin_RB
Apple MacBook Air M3	LT-777	2025-07-20	Employee Resignation	Note: Cost = shipping fee	25.00	Admin_RB
TP-Link Archer AX6000	RT-401	2025-07-19	Router won't connected to ISP or assign DNS.	Send to Tech Resolution team for testing	50.00	Admin_RB

- **Assignment History**

- Displays all assignment history logs that were submitted from the Assign Asset form (exportable as CSV)

Assignment History

Export to CSV

Asset Name	Asset Tag	Employee Name	Assigned Date
Keychron K8 Pro	KB-888	Derek Stone	2025-07-22
Lenovo ThinkPad X1 Carbon	LT-305	Ryan Tortuga	2025-07-21





Navigation Demo



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Wrap up & Future Features



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Summary

The system supports clear oversight of equipment status and ownership, while promoting accountability and operational transparency across IT departments.

- Logs
- Asset Assignment
- Asset Tracking

Future Features

- Update Database to scale for high volume assets
- Add “Light mode” aesthetic
- Add additional table filters/sorting
- Add *hamburger* (3-lines) menu to reduce navigation bar clutter





THANK YOU

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