



Work Progress Report

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Position: Backend Developer – Department & Stock Management

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Introduction

yesterdays, I focused on backend development for material requisition, stock management, and user role-based access systems. Additionally, I worked on integrating the CAGE database management backend. The primary goal was to improve departmental efficiency, ensure accurate material tracking, and establish secure access controls aligned with organizational requirements.



Key Accomplishments

Material Requisition & Stock Management

- Designed and implemented workflows for requesting and renting materials from stock.
- Integrated validation rules to minimize duplication and ensure accurate stock records.
- Built APIs to track stock movement, availability, and departmental usage.
- Enhanced reporting features to provide visibility into material consumption and inventory levels.

Role-Based Access System

- Developed a secure login system where each user accesses the platform with their unique credentials.

- Defined role-based permissions to differentiate actions between staff, managers, and administrators.
- Ensured compliance by restricting sensitive actions (e.g., approving requisitions, stock adjustments) to authorized roles.
- Conducted tests to verify that unauthorized users cannot bypass restrictions.

Department & CAGE Database Management

- Set up department-specific dashboards for requisition and stock tracking.
- Improved inter-departmental visibility by linking requests with approval flows.
- Enabled audit logs for accountability in material handling and departmental transactions.
- Worked on backend integration for the CAGE database to ensure structured data management and seamless connection with stock records.

Summary

I worked on developing and refining the material requisition, stock management, CAGE database integration, and role-based access system modules. These updates improved inventory accuracy, enhanced departmental accountability, and strengthened system security. The progress lays the foundation for better transparency, smoother workflows, and scalable resource management across the organization