מכון טכנולוגי חולון
Holon Institute of Technology
הפקולטה למדעים
מערך פרויקטים ושיתוף פעולה עם התעשייה

MAINTENANCE PROJECT

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*This project focuses on the development of a maintenance management application that enhances **efficiency** and **organization** in routine maintenance tasks.*

PROBLEM

The problem is the **high expenses** organizations face due to inefficient routine maintenance processes.

SOLUTION

The solution is an **application** that facilitates **task creation**, **tracking**, and **management**.

METHODOLOGY

The project followed **agile** development principles, focusing on iterative development and continuous feedback.

SYSTEM DOMAIN

The system domain is **the realm of routine maintenance in various organizational settings**. This includes any situation where equipment needs regular maintenance.

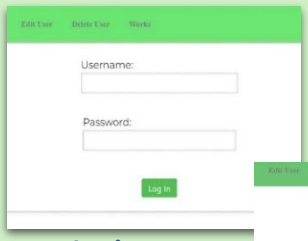
SYSTEM COMPONENTS

⇒ **Frontend:** Developed using **React**, **CSS**, and **HTML**, which form the application's user interface.

⇒ **Backend:** Built using **Node.js**, which handles all the server-side operations.

⇒ **Database: PostgreSQL** is used for data storage and retrieval.

⇒ **Mapping Component:** Utilizes **Leaflet** to provide interactive task maps.



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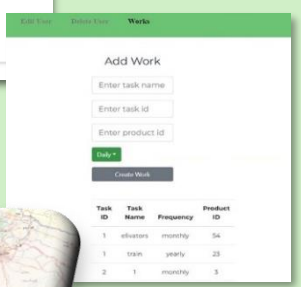

Map with tasks

GOALS

✓ ***Improve*** routine maintenance management

✓ ***Reducing*** costs

✓ ***Increasing*** equipment uptime.

SUMMARY & CONCLUSIONS

This project provided an application streamlining routine maintenance, thereby increasing **efficiency** and **cost-effectiveness**. Its **potential** for predictive analytics promises proactive equipment care.