**Database Systems Lab - Mini Project**

**Stockpile:** A Comprehensive Inventory Management System

**Details**

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**Abstract**

Stockpile is a database management system designed to provide an efficient and comprehensive solution for managing inventory. The system is implemented using SQL, MySQL or similar database systems and provides a relational database that allows users to store and retrieve information about inventory items, suppliers, customers, orders, and sales. The main goal of this project is to streamline the inventory management process by providing a user-friendly interface for managing inventory data, generating reports, and automating common inventory-related tasks. With the help of Stockpile, businesses can improve their inventory management efficiency, reduce costs, and boost profitability.

**Problem Statement**

Inefficient inventory management can lead to increased costs and reduced profitability for businesses. Without a proper system in place, inventory data can be disorganized and difficult to manage.

The aim of this project is to provide a comprehensive inventory management system Stockpile, which automates inventory-related tasks, improves data accuracy, and enables businesses to make informed decisions about their inventory.

 Stockpile aims to have the following features:

* Inventory tracking: track all inventory items, including stock level and location.
* Automated inventory management: generate purchase orders and update stock levels automatically.
* Reporting and analytics: provide detailed reports and analytics on inventory levels, sales, and other metrics.
* Customer data tracking: track customer data, including purchase history and contact information.