



Literature Review

Textile Management System

Course Title: Junior Design

Course Code: CSE299

Group: 04

Section: 01

Session: Spring 2025

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Project name: Textile Management System

Submitted by: Group 04

Literature Review:

Textile businesses often struggle with manual processes that cause inefficiencies in order management, inventory tracking, and production monitoring. Previous research has explored various solutions to address these challenges. Patel et al. (2020) highlighted the benefits of Enterprise Resource Planning(ERP) systems in integrating supply chain operations, improving order processing, and reducing delays. Singh and Kumar (2019) focused on real-time inventory tracking using SQL databases, showing how it helps prevent overstocking and fabric waste. Lee et al. (2021) demonstrated how Java-based automated order management reduces human errors and improves order accuracy. Rahman and Alam (2022) developed a digital tracking system using SQL and Python, which improved shipment accuracy and reduced delays. Zhang and Li (2023) explored web-based textile management systems that enhance customer experience through PHP and HTML interfaces. Based on these findings, our project aims to develop a Textile Management System that integrates SQL, Java, PHP, Python, and HTML to streamline operations, reduce manual errors, and improve efficiency.

Weekly Update 1:

This week, we focused on planning and setting up the structure of the project. We started by identifying the key challenges in textile management and researching existing solutions. After finalizing the system requirements, we designed the initial database structure using SQL, creating tables for orders, customers, employees, and invoices. On the frontend, we developed a basic layout for the Admin Dashboard using HTML and PHP and implemented a login system for authentication. Next week, we plan to work on the backend. We will begin developing Java-based logic for order management and connecting it with the database.