A

Project Report

On “**Finance Management System**”

Course Title:

Data Structure

Submitted To:

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* The aim of this assignment is to help you understand the concepts and components involved in financial management systems.
* It will analyze how such systems contribute to effective decision-making, financial planning, budgeting, and reporting within organizations.
* The assignment will also involve practical insights into the role of technology in modern financial management. **Language Used:**
* **Python Abstract** The Financial Management System (FMS) is a software application designed to manage personal or organizational finances efficiently.
* This project integrates the concepts of data structures such as arrays, linked lists, stacks, queues, and dictionaries to handle financial transactions, manage budgets, 4 generate reports, and provide insights. Written in Python, the system ensures simplicity, reliability, and scalability, making it suitable for educational and practical use. **Introduction :** Effective financial management is crucial for individuals and organizations. This project aims to create a system that simplifies tasks such as recording transactions, analyzing spending patterns, and generating financial reports. The use of data structures ensures efficient data manipulation and retrieval, making the system robust and responsive **Objectives:** To implement a financial management system using Python.
* To utilize data structures such as arrays, linked lists, stacks, and queues for managing financial data.
* To provide features like transaction recording, expense categorization, and financial report.
* To demonstrate the application of data structures in solving real-world problems **System Features**
* **Transaction Management:** Add, update, and delete transactions. Store transactions using lists or linked lists
* **Expense Categorization:** Categorize expenses into predefined groups (e.g., food, transport, utilities). Use dictionaries for category mapping
* **Budget Tracking:** Set budgets and track expenses against them. \_ Use stacks to manage budget changes