

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI-590 018, KARNATAKA



DBMS MINI PROJECT
REPORT
ON
“MEDICINE INVENTORYMANAGEMENT SYSTEM”

Submitted in the partial fulfilment of requirements

FOR
Database Management System (BCS403)

Submitted by

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PROJECT GUIDE:

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2024-25

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CERTIFICATE

This is to certify that **SAMHITHA LV, MANASA MK, MEGHANA JOGAR** and **CHINMAYI RP** bearing **USN 4BD23CD035, 4BD23CD023, 4BD23CD025** and **4BD23CD008** respectively of **Computer Science and Engineering (Data Science)** department have satisfactorily submitted the mini project report entitled **“MEDICINE INVENTORY MANAGEMENT SYSTEM”**. The report of the mini project has been approved as it satisfies the academic requirements for the academic year 2024-2025.

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Date:19-05-2025
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ACKNOWLEDGEMENT

Salutations to our beloved and highly esteemed institute, “**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY**” for having well qualified staff and labs furnished with necessary equipment’s.

We express our sincere thanks to our guides **Prof. Bharath H C** for giving us constant encouragement, support and valuable guidance throughout the course of the project without whose stable guidance this project would not have been achieved.

We express whole hearted gratitude to **Dr. Pradeep N** who is our respectable HOD of Computer Science & Engineering (Data Science) Department. We wish to thank him for making our task easy by providing with his valuable help and encouragement.

We also express our whole hearted gratitude to our principal, **Dr. Aravind H B** for his moral support and encouragement.

We would like to extend my gratitude to all staff of **Department of Computer Science and Engineering (Data Science)** for the help and support rendered to me. We have benefited a lot from the feedback, suggestions given by them.

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Vision and Mission of the Institute

Vision

“To be a centre of excellence recognized nationally and internationally in distinctive areas of engineering education and research, based on a culture of innovation and invention.”

Mission

“BIET contributes to the growth and development of its students by imparting a broad-based engineering education and empowering them to be successful in their chosen field by inculcating in them positive approach, leadership qualities and ethical values.”

Vision and Mission of the Department

Vision:

“To provide a quality and holistic education in data science, data analytics, data visualization, industry collaborations and research for empowering individuals to derive knowledge, thereby transform the potentials in data for the betterment of society.”

Mission:

1.	Educate and prepare students with a strong foundation in data science, equipping them with the skills, knowledge, and ethical principles needed to excel in data-driven fields.
2.	Foster collaborations with industries to adopt modern data science and visualization tools which solve the real-world problems that have societal benefits.
3.	Cultivate a culture of life-long learning with intellectual curiosity in data science and nurturing individuals who are passionate about data driven decision making.

Program Educational Objectives (PEOs):

PEO1	Graduates will work in the area of applications of software development, Artificial Intelligence, Machine Learning, Data Analytics and Data Visualization.
PEO2	Graduate will exhibit professional ethics and moral value with capabilities of working as an individual and as a team member in the corporate world to contribute toward the need of the dynamic requirements of industry and society.
PEO3	Graduates will become responsible successful software professionals with leadership and managerial quality in the modern software industries based on their strong skills on theoretical and practical foundation.

Program Specific Outcomes (PSOs):

PSO1	Students will be able to develop sustainable and efficient algorithm solutions for the real time problems by applying their problems solving skills.
PSO2	Students will be able to develop a solution for the given problem in the area of Artificial Intelligence, Data Analytics and any other societal problems through conducive environment and infrastructure.

Course Learning Objectives (COs):

- To Provide a strong foundation in database concepts, technology, and practice.
- To Practice SQL programming through a variety of database problems.
- To Understand the relational database design principles.
- To Demonstrate the use of concurrency and transactions in database.
- To Design and build database applications for real world problems.
- To become familiar with database storage structures and access techniques.

Course Outcomes (CO):

- Describe the basic elements of a relational database management system.
- Design entity relationship for the given scenario.
- Apply various Structured Query Language (SQL) statements for database manipulation.
- Analyze various normalization forms for the given application.
- Develop database applications for the given real world problem.
- Understand the concepts related to NoSQL database.

ABSTRACT

The **Medicine Inventory Management System** is a computer program created to counter the essential challenges faced in the handling of drugs within healthcare facilities like hospitals, clinics, and pharmacies. Due to the increase in the volume of drugs on the market, monitoring their quantity and shelf life has become quite cumbersome. Most healthcare providers continue to use pen-and-paper systems or simple spreadsheets to keep track of their inventory, which ends up creating inefficiencies, expired stock, and the inability to have critical medicines available during critical points. The system proposed here plans to automate the entire process of inventory management through the implementation of a central platform that keeps all the medicine information in real time.

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