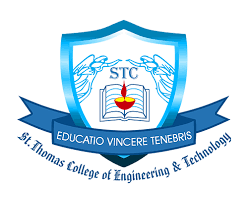
St. Thomas College of Engineering & Technology

Kozhuvalloor, Chengannur



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**FIFTH SEMESTER**

**(2021-2025 Batch B.Tech.)**

**CSL333 -DATABASE MANAGEMENT SYSTEMS LAB**

**Database Application Development**

**Submitted By**

**Akash S - STC19CS002**

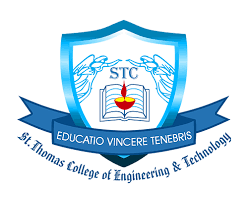
**Akshay R Pillai - STC19CS003**

**Febin K Saji - STC19CS017**

**Jerin John - STC19CS023**

St. Thomas College of Engineering & Technology

Kozhuvalloor, Chengannur

****

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CERTIFICATE**

This is to certify that, this is the bonafide report of Database Application Development experiment of CSL333 -Database Management Systems Lab done by **Akash S ( STC21CS002), Akshay R Pillai (STC21CS003), Febin K Saji (STC21CS017) and Jerin John (STC21CS023)** of Fifth Semester 2021-2025 Batch B.Tech. in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering under APJ Abdul Kalam Technological University, Kerala.

**Faculty In-Charge Head of the Department**

**INSTITUTION VISION**

St. Thomas College of Engineering and Technology, Chengannur intends to be an institution of repute recognized for excellence in education, innovation and social contribution.

**INSTITUTION MISSION**

M1: **Infrastructural Relevance**

Develop, maintain and manage our campus for our stakeholders.

M2: **Life Long Learning**

Encourage our stakeholders to participate in lifelong learning through industry and academic interactions.

M3: **Social Connect**

Organize socially relevant outreach programs for the benefit of humanity.

**DEPARTMENT VISION**

To create industry ready and socially skill computer science engineers

**DEPARTMENT MISSION**

M1. Provide a learning platform that encourages thinking and analytical ability in the area of computer software and hardware

M2. Inculcate lifelong and professional skill through the interaction of academicians and industrialist.

M3. Engage with society through social programs in and out of campus.

**PROGRAM EDUCATIONAL OBJECTIVES(PEOs)**

The Graduates in Computer Science and Engineering will be able to:

**PEO1:** **Professional Practices**

Apply engineering practices required for software development, hardware development and embedded system.

**PEO2: Intrapreneurial Skills**

Exhibit innovation, self-confidence and team work skills in the organization and society.

**PEO3: Lifelong Learning**

Upgrade knowledge in data science and software engineering required for executing the software and hardware projects.

**PROGRAM SPECIFIC OUTCOMES(PSOs)**

**PSO1: Professional Skills**

Ability to understand the architecture and working of computer hardware and software.

**PSO2: Design and Development Skills**

Ability to design and develop software for technology application to fulfill industrial and social needs.

**ABSTRACT**

The Library Management System (LMS) project is a comprehensive solution designed to streamline and enhance the management of library resources, including books, journals, and other media. This system aims to improve the efficiency of library operations, providing a user-friendly experience for both librarians and library patrons. The LMS offers a powerful cataloging system that allows librarians to efficiently input and organize information about library resources. This includes details such as title, author, publication date, genre, and ISBN. The system also automates inventory tracking, making it easier to monitor the availability and circulation of materials. The LMS supports user registration and authentication, ensuring that only authorized patrons can access library resources. Users can create accounts, manage their profiles, and check out materials, thus promoting a personalized and convenient experience. Patrons can borrow materials from the library using the LMS. The system automates the check-out and check-in processes, reducing manual work for librarians and ensuring efficient circulation. Users can place holds on items that are currently checked out by others, ensuring a fair distribution of library resources. The system manages reservations and notifies users when requested items become available.

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