VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI - 590 018

FS Mini Project Report

On

"GYM MANAGEMENT"

A report submitted in partial fulfilment of the requirements for

FilEStructures (18IS61)

in

INFORMATION SCIENCE AND ENGINEERING

Submitted by

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CERTIFICATE

This is to certify that the Mini Project entitled **"GYM MANAGEMENT"** has been successfully completed by

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in the partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science and Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report. The Mini project report has been approved as it satisfies the academic requirements in respect of Mini Project Work prescribed for the award of Bachelor of Engineering Degree.

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Abstract

The Gym Management System is a file-based software solution designed to streamline the operations of a gym or fitness center. This project focuses on creating a userfriendly interface for managing members and scheduling gym classes. The system allows gym administrators to register new members, store their information, and schedule classes with details such as class name and schedule. It also provides functionalities to display the list of registered members and scheduled classes. The project utilizes a file system approach for data storage, where member and class information is stored in vectors and saved to files for persistence.

The project's objective is to develop a practical and efficient system for gym management, enabling administrators to track member information and class schedules effectively. The use of vectors and file storage ensures data persistence across multiple program runs. The system offers a simple menu-driven interface, allowing administrators to easily register new members, view existing member details, schedule classes, and display class information.

Throughout the development process, the project adheres to good coding practices, such as using appropriate data structures and implementing modular functions for better code organization and reusability. The system also incorporates input validation to ensure data integrity and prevent errors.

The Gym Management System aims to improve gym administration and member experience by providing a centralized platform for managing member data and class schedules. It offers flexibility in adding new members and classes, and the ability to retrieve and display relevant information efficiently. The file-based approach allows for data persistence, making it convenient for gym administrators to resume operations without losing any crucial information.

Overall, the Gym Management System offers a practical solution for gym owners or administrators to efficiently manage their gym operations, track member information, and schedule classes. By utilizing a file-based approach, the system ensures data persistence and provides an intuitive user interface for easy navigation and management.