VISVESVARAYA TECHNOLOGICAL UNIVERSITY,

BELAGAVI

A FILE STRUCTURE MINI PROJECT REPORT ON

CAR PARKING RESERVATION SYSTEM

IN

INFORMATION SCIENCE & ENGINEERING

By

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CERTIFICATE

This is to certify that the DBMS Mini Project entitled " **CAR PARKING RESERVATION SYSTEM** " has been successfully completed by

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the bonafide students of **Department of Information Science & Engineering, Alva's Institute of Engineering and Technology** in **DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2022–2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Mini project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the Bachelor of Engineering Degree.

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ABSTRACT

The abstract of the Car Parking Reservation System in C++ provides a concise summary of the system's purpose, objectives, and advantages. In the explanation, we will provide a more detailed elaboration of the abstract.

The Car Parking Reservation System is designed to automate the process of managing car parking reservations. It provides a user-friendly interface for users to reserve parking slots, record car details, calculate parking charges, and process car departures. The system utilizes object-oriented programming principles and incorporates file handling to ensure data persistence.

The system's main objective is to simplify the reservation process by eliminating manual paperwork and reducing errors. Users can easily reserve parking slots by entering their car details and desired duration of stay. The system maintains a database of car records, including driver names, car numbers, stay durations, and time slots, for efficient record management.

One of the key advantages of the system is accurate charge calculation. It automatically calculates parking charges based on the duration of stay and VIP status. This ensures consistent and error-free charge calculations, eliminating the need for manual calculations and reducing billing discrepancies.

The system also streamlines the car departure process. Users can easily process their car departures, and the system updates the parking records accordingly. It provides relevant information, such as the total expenses incurred during the parking period, to facilitate a smooth departure process.

Additionally, the system incorporates a login functionality for user authentication, enhancing security and preventing unauthorized access. Error handling and validation mechanisms are implemented to ensure data integrity and provide a reliable system for users and administrators.

Overall, the Car Parking Reservation System offers a professional implementation that simplifies the parking reservation process, enhances record management, improves charge calculation accuracy, streamlines car departures, and ensures data security.