**DIGITAL PARKING MANAGEMENT SYSTEM FOR IIMS COLLEGE**

A system that manages the parking space allocation at IIMS COLLEGE, DHOBIDHARA, KTM

**Abstract**

This project is designed for vehicle parking to records the information of drivers. Typically, at IIMS COLLEGE, DHOBIDHARA, KATHMANDU, Looking out for a vacant parking slot, however it's a paid office with a security monitor. It is simple web-based application using Html, CSS, SQL, and PIIP. It is very user-friendly and easy to use and provides both benefits to customers and owners. This system can be edit if there is mistake on names, time, or other contents. This system can help tracking the entry and exit vehicles which helps to know there is place for parking or not inside the parking area. The purpose behind the documentation is to give the explanation about the process of design and usage alongside description of usefulness gave by the system and plans for what's to come in future. This system will record all the details of customer's vehicle that is parked in parking area. These systems also save more time for owner. An iterative approach also helps to solve the problem and primary method is used to research the problem solution. This system will helpful to the admin as well as to the customer also.

**Introduction**

In the early days there was no such system as there is today. But nowadays in the age of internet and technology they have become a part of our daily life. Many businesses and organizations have integrated these technologies, the software "Vehicle Parking Management System for IIMS College" online system to provide free services to their customers. The overall structure of this report consists of five main chapters: summary, introduction, data collection, analysis, synthesis, evaluation, conclusion and recommendation. All this content consists of their subdivisions. The first part introduces the car parking management system, how it works, what tools and technologies are used to develop the system. And the second part is to collect information that contains all the information and data that I used to build my system. Gathering information such as: literature review, research methodology, and system development methodology. I choose research methods such as questionnaires, fact-finding skills, primary data sources, and secondary data sources. Part 1 of the analysis includes some sub-materials such as process model, functional requirement, non-functional requirement, constraint and assumption, feasibility, software requirement. In the synthesis section I’ve designed all the diagrams like Use Case diagram, Activity diagram, Gantt Chart. The diagnostic section does all the testing and also finds all the objectives and scope that I’ve find in the information gathering. The final conclusion and recommendation section summarizes all of the systems, therefore, the software vehicle parking management system that helps to record the details of the customer standing in the parking area that helps to control the parking area. And also, the tools and technologies used to develop the system. Customer details are stored in the database.

**Background**

In today's days in many public places, such as, shopping centers, multiplex systems, medical clinics, offices, markets there is an urgent issue of vehicle parking. The vehicle parking area has many lanes/spaces for vehicle parking. So, to park a vehicle one needs to search for all the slots. In addition, this includes lot of time. So, there is a need to build up a computerized parking system that shows directly available of empty parking slots in any path directly at the passageway. The project includes record details of customer vehicle that are parked in parking area. So, the person can leave their vehicle safe and secure. The main aim of this project is to reduce the traffic in the parking area, Normally, we can find in the movie hall shopping mall there is an issue they need to search which line is empty and line is had spot to leave the vehicle for parking. So, to maintain this problem vehicle parking management system is implemented. Parking management system is the managing the records of the approaching and active vehicle in parking areas. Parking system has created such a way that is filled up with secure device such as parking control gates, vehicle checking device, CCTV, and others. Accordingly, we need to create and design a parking management system. This software "Vehicle parking management system" is a web based online system which is developed in PHP, as a front-end development and Xampp for connecting MYSQL server and Apache server for development for backend of my system. This system helps to record the number plate, in and out vehicle from parking area. The purpose behind this system is to make easier for vehicle owner to park safely and secure. This system solves the problem, by helping the user to locate parking areas, locate the place of parked area, and manage the parking fees.

The Parking areas are very necessary in everywhere especially within the cities of the countries. Every day the drivers are throwing time by searching parking area. In this era of increases need to travel, the more of vehicles likewise expands, which brings about addition in the space required for parking vehicles. The management of these parking areas is to be done in an extremely proficient manner utilizing limited assets. The goal of this project is to get data of the parking area at wherever and to give that data to the new coming vehicle There are two sections in our vehicle parking management system. The first section shows :

Customer Name

Vehicle Number

Vehicle Type

Vehicle Entry Time

Vehicle Exit Time

**Report**

Vehicle Parking Details: This report provides the brief summary of vehicle parking activities. It will show all the In and Out Vehicles details. It also shows the time of entry and exits and shows the cost according to the time.

**Transaction Details**

This detail shows the transaction of both the customers and the systems. It will have time in the transaction. Customer gets their printed receipt after they pay the parking cost.