# FINAL PROJECT REPORT

**OF**

# CAR PARKING



Submitted in the partial fulfillment for the award degree of

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**IN**

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**SUBMITTED BY**

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# CT Institute of Engineering, Management & Technology

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THANKS AGAIN TO ALL WHO HELPED US.

Internal Examiner:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

External Examiner:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

H.O.D.(CSE):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ABSTRACT**

# CAR PARKINGis designed to make it easier for people to book parking spaces online. Our smart park system will instantly enhance your websites by enabling customers to reserve parking spaces, buy extra services and pay online from home or on the go. Smart park system admin can add a many car spaces types as they need, set availability periods and prices, launch promos and discounts.

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**CHAPTER: 1**

# INTRODUCTION OF COMPANY

**Foundation**

STS has been founded by group of senior IT Professional. Right from the inception of this start up, STS has prospered by Leaps and bounds in technology products and critical solutions. SachTech Solution established back in 29 December, 2011 at Mohali, India to serve the varying need of individuals as well as SMEs in today’s competitive market across the globe it was incorporated as SACHTECH SOLUTION PRIVATE LIMITED with **CIN U72900CH2016PTC041177** on 11th Aug 2016 under the Companies Act, 2013 in India.

As of year 2018, SachTech has a strong team of more than 80 members in Mohali, India lead by passionate young entrepreneurs serving customers from across the globe in following countries: USA, Canada, UK, Brazil, Spain, Malaysia, UAE, Egypt, Australia, Finland and so on. We are continuously increasing our reach with potential customers and determined to expand our services to everyone in the globe. We embrace our responsibility to create a positive impact in the communities in which we work and live. SachTech Solution brings robust skills and forward looking perspectives to solve customer challenges. We use proven knowledge to make recommendations and provide expert guidance to our customers. We listen, we care, and we serve. SachTech Solution innovates and constantly improves. We do what we say we’ll do. SachTech Solution believes in people and their dreams.

Within the span of six years, STS is the strong team of more than 80 members having its presence in India (Mohali) in 7000 sq ft. & in Canada. Our operations are spread in New York, UK, Australia, Saudi Arabia, UAE & Israel.

* **Mission & Vision**

Our Mission is to be the world's leading IT Channel in products, services and solutions that empower and alchemize the way consumers and businesses assemble, manage, distribute and communicate information.

Our vision is to become a world-class software development and technology provider and to provide clients with innovated technical and business solutions by utilizing industry standards and technology.

**Achievements**

STS believes in Quality and it is evident from various technology breaks through like from fastest development systems to Desktop Retail Applications integrated with highly innovative data centre services which STS has achieved in a short span. Our achievements represent our capabilities and expertise in catering directly to the problematic area of a business enterprise.

STS works along with the client to improve its business outcomes by exploring new business opportunities, deriving cost takeout, and increasing process efficiency without any major change. From innovative ideas to their implementation and thereafter, STS offers all business transformation outsourcing services to clients under one flagship in four different phases of consulting, developing, outsourcing and training.

**Services We Offer**

1. **Consulting:**

STS has 360-degree approach including each business process through a panel of various domain experts,who work hard along with the client to identify the requirements to achieve client's goal while respecting its value. STS has devised ready to opt industry vertical consulting solutions for various processes like Business Case Analysis, Business process re-engineering and Management product, Development and Management, IT Strategy Formulation, Technology Support Development, Internal Marketing, Product Testing, Performance Management etc.

1. **Development:**

STS has the honor of developinginnovative technologies and the growth of cloud, mobile computing and social media have put additional burdens on staff looking to quickly provide modern solutions. We also offer bouquet of various enterprise solutions, Android applications, Desktop applications, Web & Device Applications.

1. **Outsourcing:**

Besides various readymade STS business process outsourcing solutions for various processeslike collocation services, Onsite Database AdministrationServices, OnlineCounter etc., we have specialization in various industrial critical, technical and general processes. Our man resources are trained for client processes and work as client’s integral part and are fully accessible by client directly.

1. **Industrial Training:**

From corporate training to end user training and technical Trainings like System Administration, Enterprise Architecture, Enterprise Network etc.,

STS has client based dedicated training programs to ensure client can take maximum advantage of our system, services and solutions. Apart from inhouse trainers, we have ever-growing team of our training partners offering customized professional training modules to enterprising and up comings professionals.

# CHAPTER: 2

# INTRODUCTION OF THE PROJECT

## 2.1 INTRODUCTION OF THE PROJECT

The ‘Car Parking’ has been developed to override the problems prevailing in the practicing manual system. Every organization, whether big or small, has challenges to overcome and managing the information of Parking, Car, Parking Fees, Parking Area. Every Car Parking System has different Car needs , therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. These system will ultimately allow you to better manage resources.The main objective of the Parking Management System is to manage the details of Duration, Vehicles, Parking Slots, Customers, Parking Fees. The purpose of the project is to built an application program to reduce the manual work for managing the Duration, Vehicles, Parking Slots.

## 2.2 DETAILED DESCRIPTION OF THE PROJECT

The proposed project is a smart parking booking system that provides users an easy way of reserving a parking space online using web portal. It overcomes the problem of finding a parking space in organizations that unnecessary consumes time. Hence, this project offers a web application based reservation system where users can view various parking spaces area of their choice to view whether space available or not. If the booking space is available, then the user can book it for specific time slot. The booked space will be marked and will be marked and will not be available for anyone else for the specified time. This system provides an additional feature of cancelling the bookings. Users can cancel their reserved space anytime. User can also view previous parking booking details using the web portal.

* Users can get details about parking areas for particular locations.
* It saves user time in search of parking space available in such a long parking area.
* The system provides a view of parking spaces.
* It excludes the need of human efforts for manually managing parking spaces.

**2.3WORKING OF PROJECT**

* Admin logins to the system and manage all the functionalities of Online Vehicle Parking System.
* Admin can add, edit, delete and view the records of Car, Parking Space, Parking Fees, Car Number.
* The whole system is divided into sub-systems, each of which deals with one or more external agents and which together provide all of functionality of the Parking System as a whole.
* Each user has been given a unique Username and Password. User can use his/her Username and Password for booking a parking slot.
* User’s request is granted by the Admin by completing various steps like:
  + - by checking availability of slots,
    - by taking correct payment from the user.
* Thus, in this way, the whole process of booking a slot is carried out

## 2.4 OBJECTIVE OF THE PROJECT

### The main Objective of the Project Parking System is

### Manage the details of car, Parking Space, Parking Slot, Parking Area.

### It manage all the information about car, Parking Fees, Parking Area.

### The project is totally built at administrative end and thus only the administrator is granted the access.

### The purpose of the project is to build an application program to reduce the manual work for managing the car, Parking , Parking Fees , Parking Space.

### It tracked all the details about the Parking Space, Parking Slot, Parking Area.

### User can also cancel the reserved slot.

* Users can get details about parking areas for particular locations.
* It saves user time in search of parking space available in such a long parking area.
* The system provides a view of parking spaces.
* It excludes the need of human efforts for manually managing parking spaces.
* User can able to contact with owner after get the authentication by the admin side.
* User can visit the website and can see the information about the parking space available at specific place of particular city.
* User can edit their profile status.
* Non-registered users can visit website, can give a suggestion by filling contact form.

## 2.5 ADVANTAGES

* Users can get details about parking spaces for particular locations.
* It saves user time in search of parking space available in such a long parking area.
* The system provides a view of the parking spaces.
* It excluded the need of human efforts for managing parking spaces.

## 2.6 LIMITATIONS

* It requires an internet connection.
* It requires large database.

# CHAPTER: 3

# LITERATURE SURVEY

**3.1 EXISTING SYSTEM**

In the existing system, the number of personal vehicles usage is increasing manifold. Finding a parking space in most metropolitan areas, during the rush hours, is difficult for drivers. Searching for a vacant parking slot is very time consuming. It includes the manpower and expensive devices that results in high cost for maintenance.

## 3.2 PROPOSED SYSTEM

The proposed system enables the Car Owner to send requests to the Admin for locations where parking is available and the Admin responds with slots availability. Thereby displays the information on a LED screen with which the user can check for empty vehicle slots which in turn reduces the searching time. User is provided with an interactive user interface for the process of pre-booking of parking slots.

## 3.3 FEASIBILITY STUDY

A feasibility study aims to objectively and rationally uncover the strengths and weaknesses of an existing business or proposed venture, opportunities and threats present in the environment, the resources required to carry through, and ultimately the prospects for success. In its simplest terms, the two criteria to judge feasibility are cost required and value to be attained.

A well-designed feasibility study should provide a historical background of the business or project, a description of the product or services accounting statements, details of the operations and management, marketing research and policies, financial data, legal requirements and tax obligations. Generally, feasibility studies precede technical development and project implementation.

A feasibility study evaluates the project's potential for success; therefore, perceived objectivity is an important factor in the credibility of the study for potential investors and lending institutions. It must therefore be conducted with an objective, unbiased approach to provide information upon which decisions can be based.

This project can be implemented using affordable electronics and software technology making it economically, technically and operationally feasible.

**3.3.1 ECONOMIC FEASIBILITY**

This is a very important aspect to be considered while developing a project. we decided the technology based on minimum possible cost factor.

* All hardware and software cost has to be borne by the organization.
* Overall we have estimated that the benefits the organization is going to receive from the proposed system will surely overcome the initial costs and the later on running cost for system.

**3.3.2 TECHNICAL FEASIBILITY**

This included the study of function, performance and constraints that may affect the ability to achieve an acceptable system. For this feasibility study, we studied complete functionality to be provided in the system, as described in the system requirement specification(SRS), and checked if everything was possible using different type of frontend and backend .

**3.3.3 OPERATIONAL FEASIBILITY**

No doubt the proposed system is full GUI based that is very user friendly and all inputs to be taken all self-explanatory even to a layman. Besides, a proper training has been conducted to let know the essence of the system to the users so that they feel comfortable with new system has cut down their loads and doing.

# CHAPTER: 4

# SYSTEM ANALYSIS AND DESIGN

## 4.1 SYSTEM REQUIREMENTS

For this project minimum hardware and software requirement are listed below:

**4.1.1 Hardware Requirement**

**Processor** : Pentium 4 or above

**Processor Speed** : 2.00 GHz CPU

**RAM** : 1 GB or above

**Hard disk utilization** : : 300 MB or above

**4.1.2. Software Requirement**

**Front End** : CSS, HTML, BOOTSTRAP, JavaScript

**Back End**  : PHP, MySQL

**Application Server** : APACHE Server

**Operation System** : Windows or any equivalent

**4.2 FLOWCHART DIAGRAMS**

### Dataflow daigram is the starting point of the design phase that functionally decomoses the requirement specification. A DFD consists of a series of bubbles joined by lines. The bubbles represent data transformatio and the lines represent data flow in the system. A DFD describes what data flow rather than how they are processed, so it does not hardware, software and data structure.

### A DFD is a graphical representation of th “flow” of data through an information system

There are various symbols used in a DFD namely:

**“Arrow”:**

A data flow is a route, which enables packets of data to travel from one point to another. Data may flow from a source to a processor or from a data store or process. An “Arrow Line” depicts a flow with the arrowhead pointing in the direction of the flow.

**“Process”:**

 A Process represents transformations where incoming data flows are changed into outgoing data flows. 

**“Data Store”:**

A data store represents a repository of data that is to be stored for use by one or more processes may be as simple as buffer or queue or sophisticated as relational database. They should have clear names**.**

**“A Source or Sink”:**

 A source or sink is a person or part of an organization, which enter or receives information from the system, but is considered to be outside the contest of data flowmodel. .

**There areseven rules for construct a dataflow diagram.**

1. Arrows should not cross each other.
2. Squares,circles and files must wears names.
3. No two data flows,squares or circles can be the names.
4. Decompose data flows must be balanced.
5. Draw all data flows around the outside of the diagram .
6. Choose meaningful names for data flows, processes&data stores.
7. Control information such as record units, password and validation requirements are not penitent to a dataflow diagram

### 

### USER MODULE

### C:\Users\nav\Desktop\USER.PNG

### ADMIN MODULE

### C:\Users\nav\Desktop\ADMIN.PNG

## 4.3 PROJECT PLAN

Before starting a software project, it is essential to determine the tasks to be performed and properly manage allocation of tasks among individuals involved in the software development. Hence, planning is important as it results in effective software development. Project planning is an organized and integrated management process, which focuses on activities required for successful completion of the project. It prevents obstacles that arise in the project such as changes in projects or organization's objectives, non-availability of resources, and so on. Project planning also helps in better utilization of resources and optimal usage of the allotted time for a project. The other objectives of project planning are listed below.

1. It defines the roles and responsibilities of the project management team members.

2. It ensures that the project management team works according to the business objectives.

3. It checks feasibility of the schedule and user requirements.

4. It determines project constraints.

Several individuals help in planning the project. These include senior management and project management team. Senior management is responsible for employing team members and providing resources required for the project. The project management team, which generally includes project managers and developers, is responsible for planning, determining, and tracking the activities of the project. Table lists the tasks performed by individuals involved in the software project.

**PLANNING OF WORK**

* **Modules of the Project**

**Admin module**

Admin of website can login and help the Users. It can manage site content. Admin can edit, delete Pages and Comments. It also manages users of website. Admin can approve or un-approve the privileges.

**User module**

User can visit the website and can see the information about the parking space available at specific place of particular city. User can edit their profile status.

**Cashier Module**

In cashier module the users can pay the payment to the cashier, manually also.

**Non-Registered Users**

The non-registered users are the normal visitors of the website. Non-registered users can visit website, can give a suggestion by filling contact form.

**Contact Module**

In this module user can able to contact with owner after get the authentication by the admin side.

# 

# CHAPTER-5

# TECHNOLOGY AND TOOLS

## 5.1 TECHNOLOGY USED

**5.1.1 HTML**

HTML is a computer language devised to allow website creation. These websites can then be viewed by anyone else connected to the Internet. It is relatively **easy to learn**, with the basics being accessible to most people in one sitting; and quite **powerful** in what it allows you to create. It is constantly undergoing revision and evolution to meet the demands and requirements of the growing Internet audience under the direction of the organization charged with designing and maintaining the language.



Fig.5.1 HTML Logo

* Hypertext is the method by which you move around on the web by clicking on special text called **hyperlinks** which bring you to the next page. The fact that it is hyper just means it is not linear i.e. you can go to any place on the Internet whenever you want by clicking on links there is no set order to do things in.
* Markup is what **HTML tags** do to the text inside them. They mark it as a certain type of text (italicized text, for example).
* HTML is a Language, as it has code-words and syntax like any other language.

**5.1.2 CSS**

Cascading Style Sheets (CSS) are a method of web design that formats web page content according to a presentation style specified by the web page author. There are several advantages to using CS to format the presentation elements of a web page. CSS essentially separates document content from the manner in which it is presented, thus allowing for more fluid transitions between various browser platforms. CSS also provides for more precise control for spacing, alignment, and positioning of content without relying on the need for layout tables or frames. Font style, colour, and font size can all be manipulated using CSS as well.

**5.1.3 BOOTSTRAP**

* Bootstrap is a free front-end framework for faster and easier web development.
* Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugging.
* Bootstrap also gives you the ability to easily create responsive designs.

## Why Use Bootstrap? Or Advantages of Bootstrap:-

* **Easy to use:** Anybody with just basic knowledge of HTML and CSS can start using Bootstrap
* **Responsive features:** Bootstrap's responsive CSS adjusts to phones, tablets, and desktops
* **Mobile-first approach:** In Bootstrap 3, mobile-first styles are part of the core framework
* **Browser compatibility:** Bootstrap is compatible with all modern browsers (Chrome, Firefox, Internet Explorer, Edge, Safari, and Opera)

## 5.1.4 MySQLi

MySQLi is improved version of MySQL. Before MySQLi we were using its old version MySQL and millions number of projects have been developed using PHP and MySQL and later PHP announce their ideas to deprecate MySQL extension in 2011. Officially MySQL has been removed from PHP 5.5



Fig.5.4MySQLi Logo

* MySQLi database system is reliable for both small and large applications.
* MySQLi is open source relational database management system which is used on web.
* MySQL must not be used in new development anymore.
* Old extension does not support Prepared Statements and improved version of MySQL (MySQLi) and PDO that support Prepared Statements are object oriented.
* For security reasons, you must use Prepared Statements. It is very important for your web application security.
* By using Prepared Statements, you can protect your application from SQL injection.
* MySQLi support for multiple statements and enhance debugging capabilities.

### PHP MySqli Basic usage:-

Now i will show you the basic usage of MySQLi, such as select, insert, update and delete records. I hope this list will help you in developing application.

* MySQLi Prepared Statements - Insert Value in database table.
* Insert Multiple Value in database table.
* PHP MySQLi prepared statement select multiple rows.

**5.1.5 JAVASCRIPT**

JavaScript is a dynamic computer programming language. It is lightweight and most commonly used as a part of web pages, whose implementations allow client-side script to interact with the user and make dynamic pages. It is an interpreted programming language with object-oriented capabilities.

* JavaScript is a lightweight, interpreted programming language.
* Designed for creating network-centric applications.
* Complementary to and integrated with Java.
* Complementary to and integrated with HTML.
* Open and cross-platform.

**5.1.6 J-QUERY**

j-Query is a fast and concise JavaScript Library created by John Resig in 2006 with a nice motto: **Write less, do more** j-Query tutorial for beginners and professionals provides deep knowledge of j-Query technology. Our j-Query tutorial will help you to learn j-Query fundamentals, example, selectors, events, effects, traversing, CSS and attributes.

* J-Query is a small and lightweight JavaScript library.
* J-Query is cross-platform.
* J-Query means "write less do more".
* J-Query simplifies AJAX call and DOM manipulation.

**5.1.7 PHP**

**PHP** is a general-purpose server-side scripting language originally designed for web development to produce dynamic web pages. For this purpose, PHP code is embedded into the HTML source document and interpreted by a web server with a PHP processor module, which generates the web page document. It also has evolved to include a command-line interface capability and can be used in standalone graphical applications. PHP can be deployed on most web servers and as a standalone interpreter, on almost every operating system and platform free of charge. There is also commercial software such as RadPHP, a rapid application development framework for the PHP language. A competitor to Microsoft's Active Server Pages (ASP) server-side script engine and similar languages, PHP is installed on more than 20 million websites and 1 million web servers.

PHP started out as a small open source project that evolved as more and more people found out how useful it was. Rasmus Lerdorf unleashed the first version of PHP way back in 1994.

* PHP is a recursive acronym for "PHP: Hypertext Preprocessor".
* PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites.
* It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.
* PHP is pleasingly zippy in its execution, especially when compiled as an Apache module on the Unix side. The MySQL server, once started, executes even very complex queries with huge result sets in record-setting time.
* PHP supports a large number of major protocols such as POP3, IMAP, and LDAP. PHP4 added support for Java and distributed object architectures (COM and CORBA), making n-tier development a possibility for the first time.
* PHP is forgiving: PHP language tries to be as forgiving as possible.
* PHP Syntax is C-Like.

**Common uses of PHP**

* PHP performs system functions, i.e. from files on a system it can create, open, read, write, and close them.
* PHP can handle forms, i.e. gather data from files, save data to a file, through email you can send data, return data to the user.
* You add, delete, modify elements within your database through PHP.
* Access cookies variables and set cookies.
* Using PHP, you can restrict users to access some pages of your website.
* It can encrypt data.

**Characteristics of PHP**

Five important characteristics make PHP's practical nature possible –

* Simplicity
* Efficiency
* Security
* Flexibility
* Familiarity

## 

## 5.2 TOOLS USED

**5.2.1 XAMPP**

**Xampp** is a free and open source, cross-platform ,web server, solution stack, package developed by Apache Friends, consisting mainly of the Apache HTTP Server, Maria DB, database and interpreters for scripts written in the PHP and Perl programming languages.



Fig.5.7 XAMPP Logo

XAMPP stands for Cross-Platform (X), Apache (A), Maria DB (M), PHP (P) and Perl (P). It is a simple, lightweight Apache distribution that makes it extremely easy for developers to create a local web server for testing and deployment purposes. Everything needed to set up a web server – server application (Apache), database (Maria DB), and scripting language (PHP) – is included in an extractable file. XAMPP is also cross-platform, which means it works equally well on Linux, Mac and Windows. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server extremely easy as well.

**Usages:-**

* Officially, XAMPP's designers intended it for use only as a development tool, to allow website designers and programmers to test their work on their own computers without any access to the Internet. To make this as easy as possible, many important security features are disabled by default.
* XAMPP also provides support for creating and manipulating databases in Maria DB and SQLite among others.

**5.2.2 Visual Studio Code**

**Visual Studio Code** is a great editor for PHP development. You get features like syntax highlighting and bracket matching, IntelliSense (code completion), and snippets out of the box and you can add more functionality through community-created VS Code extensions.



Fig.5.8 Visual Studio Code Logo

# Why did we build Visual Studio Code?

Visual Studio Code combines the simplicity of a source code editor with powerful developer tooling, like IntelliSense code completion and debugging.

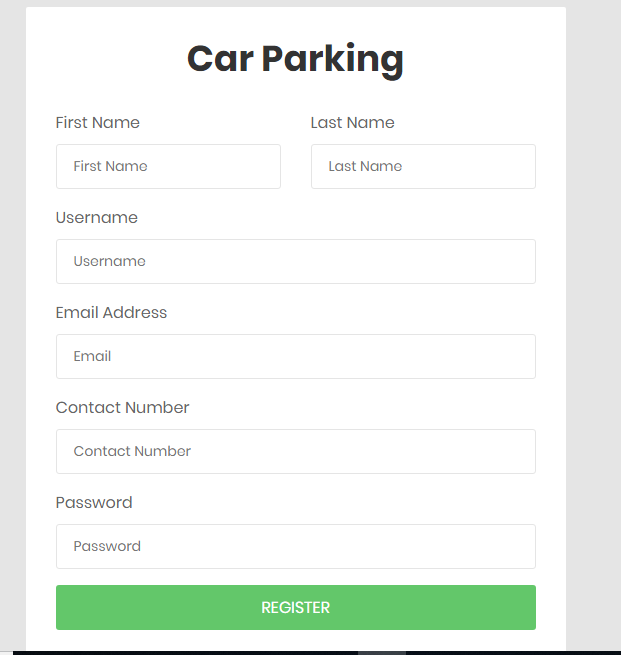
First and foremost, it is an editor that gets out of your way. The delightfully frictionless edit-build-debug cycle means less time fiddling with your environment, and more time executing on your ideas.

# CHAPTER: 6

# SCREENSHOTS

# ­­­­­­­­

# Home page



**Signup page**

# C:\Users\This Pc\Desktop\check qr code.PNG

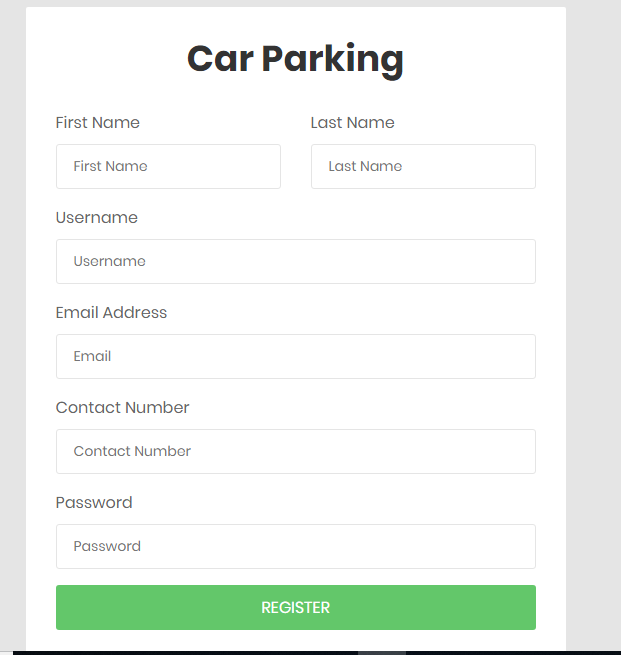
# CHECK QR CODE

# C:\Users\This Pc\Desktop\book parking.PNG

# BOOK PARKING

# C:\Users\This Pc\Desktop\show booking.PNG

SHOW BOOK PARKING



ADD USER

# C:\Users\This Pc\Desktop\all user.PNG

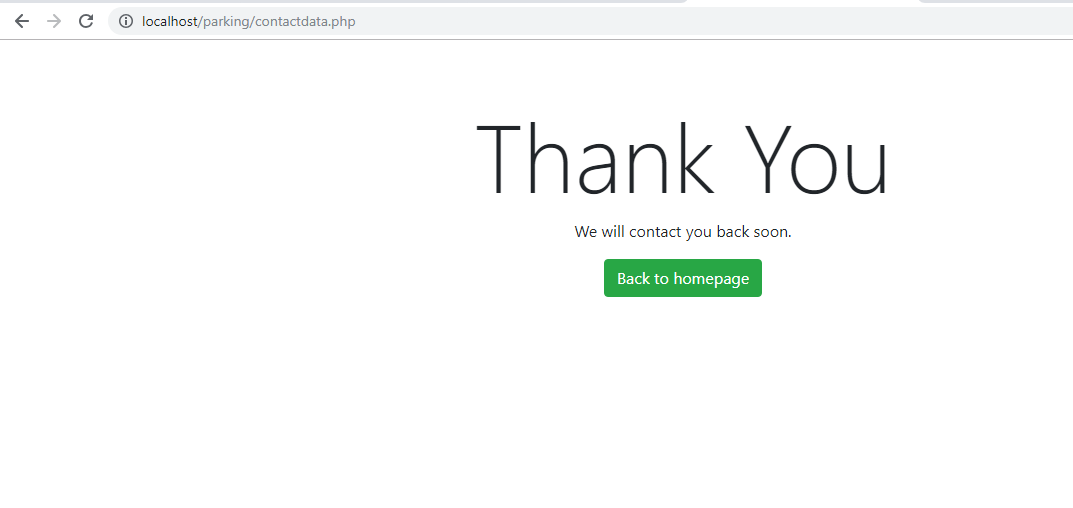
ALL USER

# C:\Users\This Pc\Desktop\add parking.PNG

ADD PARKING

# C:\Users\This Pc\Desktop\1.PNG

CHECK OFFER



# CHAPTER-7

# FEATURES AND FUTURE SCOPE

### 7.1 FEATURES

* Provides the searching facilities based on various factors. Such as, Duration, Parking Slots, Customers, Parking fees.
* It tracks all the information of Parking, Car Number, available parking spaces.
* Manage the information of vehicles, Customers and Duration.
* Simplifies the operation of parking system.
* Shows the information and description of the duration and parking slots.
* All the fields such as Duration, Parking Slots, Parking fees are validated and does not take invalid values.
* To increase the efficiency of managing the duration and vehicles.
* Editing, adding, deleting and updating of Records is improved which results in proper resource management of Duration data.
* It deals with monitoring the information and transactions of customers.
* Provides an additional feature of cancelling the bookings.
* Users can also view previous parking booking details using the web portal.
* It excludes the need of human efforts for managing parking spaces.

**7.2 FUTURE SCOPE**

Online Car Parking Reservation Application helps people find parking slots quickly, reducing frustration and enhancing the visitor experience. The scope of this project is defined as follows:

1. Study the feasibility and other different options to enhance the driver’s experience and efficiency of parking.
2. Explore geometry application development and location-based service.
3. Evaluate and review the strengths and weaknesses of the project outcome, seek and identity for future improvements.

14. This can be expanded in the sense of security. Using metal detectors and CCTV cameras, security of the parking area can be enhanced.

In future, this system or technique will be the one which is used in every industries and even in household apartments.

**REFERENCES**

**BOOKS**

1. Headfirst Html and css
2. Headfirst Javascript.
3. php for dummies.

**WEBSITES**

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<https://www.tutorialspoint.com/html/html_elements.htm>

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