ONLINE PARKING SPACE SHARING SYSTEM

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ABSTRACT

Sharing private parking spots during their inert time-frames has indicated an incredible potential for tending to metropolitan gridlock and ill-conceived stopping issues in brilliant urban areas. In this article, planning to address the internet parking spots sharing issue while guaranteeing the protection of client stopping objective areas, we propose a novel objective privacy-preserving internet stopping sharing motivator plot. Specifically, the internet parking spot sharing issue is formalized as a social government assistance expansion issue in a two-sided market, where parking spot suppliers and clients are viewed as dealers and purchasers. At that point, novel limit esteem based standards are intended to decide champs, installments, also, repayment. At last, champs are coordinated by explaining a blended whole number nonlinear programming issue, planning to limit the separation between the client's objective and allotted parking spot. Furthermore, the area protection of the client’s objections is ensured by the Laplace component. We demonstrate that accomplishes a few monetarily viable properties what's more, rough differential protection. We examine the upper bound of the productivity loss of our plan. Broad assessment results exhibit that our plan cannot just accomplish great execution with respect to social government assistance, Supplier fulfillment proportion, protection conservation, and calculation overhead yet, in addition, prompts more limited travel separations for clients contrasting with the benchmark plot.

EXISTING SYSTEM

We presently model the internet parking spot sharing issue as a two-sided market, where the PSPs go about as venders and the PSCs go about as purchasers. The market will be set off when there are purchasers and dealers all the while. The framework works in a period opened style. The time allotment is set by the representative, and in this article, we consider the schedule opening is 60 minutes. Likewise, the PSPs and the PSCs can show up and withdraw from the market progressively, without advance information on the bartering.

Disadvantages:

- It is not represent parking spaces and slots.
- It is does not have authorized parking slots.
- It requires large database.
- It does not have reserved for particular timing.

PROPOSED SYSTEM

The proposed system of project is that provides easy way of reserving a parking space online using web portal. It overcomes the problem of finding a parking space in areas that unnecessary consumes time. Hence, this project offers a web application based reservation system where users can view various parking spaces and select nearby or specific area of their choice to view whether space is available or not. If the booking space is available, then user can book it for specific time slot. The booked space will be marked and will not be available for anyone else for the specified time.

Advantages:

- It is representing clearly with maps.
- It has authorized parking slots with authorized address.
- It is so easy to use with simple UI.
- It has reserved for particular timing.

ADVANTAGES:

- Users can get details about parking areas for particular locations.
- The system provides a view of the parking spaces.
- It excludes the need of human efforts for managing parking spaces.
- It is representing clearly with clear locations.
- It has authorized parking slots with authorized address.
- It is so easy to use with simple User Interface.
- It has reserved for particular timing.

AIM & OBJECTIVES:

Aim:

To enable drivers to locate and reserve a parking place online through accessing it on web platform.

Objectives:

To establish possible solutions to improve on the current Vehicle Parking Reservation

To design and implement Online Vehicle Parking Reservation system

To make a good research about People's Park and gather all necessary information that

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To make a good research about People's Park and gather all necessary information that

To make a good research about People's Park and gather all necessary information that helped in designing the new parking reservation system.

SYSTEM REQUIREMENTS

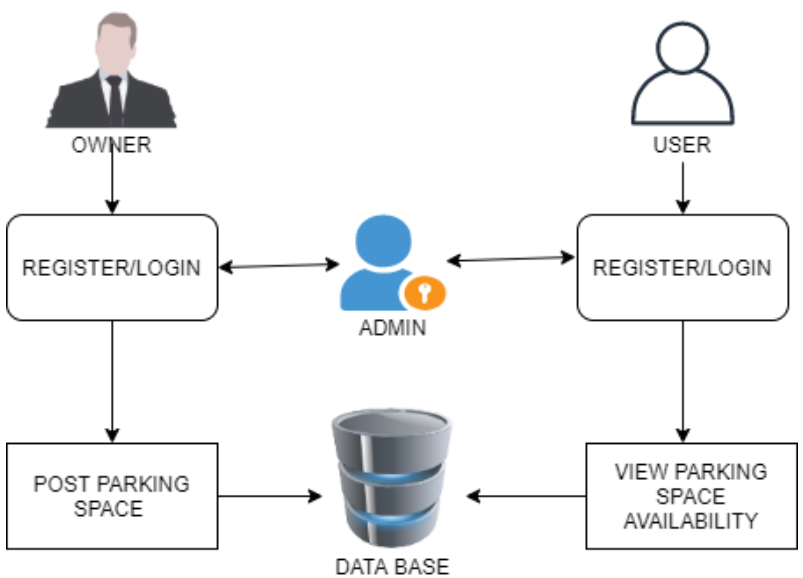
HARDWARE

PROCESSOR : Intel Core i3.
RAM : 4 GB
MONITOR : 15” COLOR
HARD DISK : 25 GB

SOFTWARE

Front End : HTML, BOOTSTRAP, JAVASCRIPT
Back End : MYSQL, PHP
Operating System : Windows 07
Software : NOTEPAD, XAMPP SERVER

ARCHITECTURE DIAGRAM:



MODULES:

- Login /registration- Module.
- Admin Module.
- User Module.
- Owner Module.
- Parking zone Module.

MODULES DESCRIPTION:

Login /registration- Module:

Registration module is used to register the details about the user. That contain create a unique name and password. That also needs a full name of user and email id of user for authentication.

The basic module login is used to web page. The module has username and password. That will be verified with database and allow to login to the web page.

Admin–Module:

This module is used to verify the user, its helps to prevent from the unauthorized problems. Admin add the owners for the parking availability.

MODULES DESCRIPTION:

User-Module:

The user module is used to reserve the parking slots for their purpose and required timing. User can pay the payment for their reserving parking slot, it helps reduce the time and traffic in public place.

Owner-Module:

The purpose of owner module is post the availability of their parking areas and allots the parking slot for the specified pre-booking user. Owner can receive the payments from user for reserved parking slots.

MODULES DESCRIPTION:

Parking zone -Module:

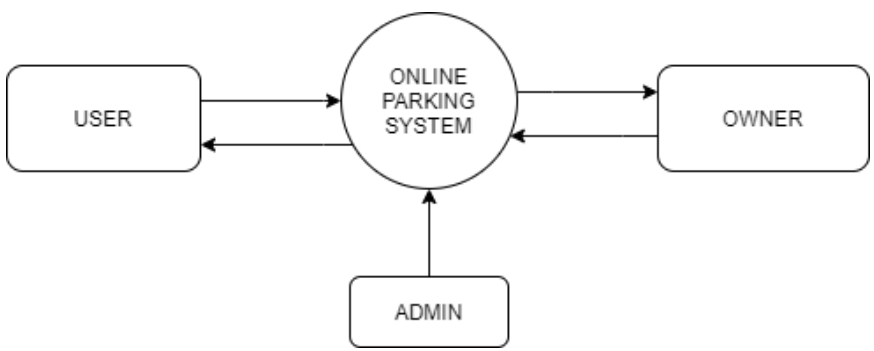
This module is used to get the get the details of parking slots from the owners and show the parking slots to the users. They can see the empty parking slots whenever chosen areas.

Payment Module:

The payment module is used to user pay the deserved amount for the selected parking slots.

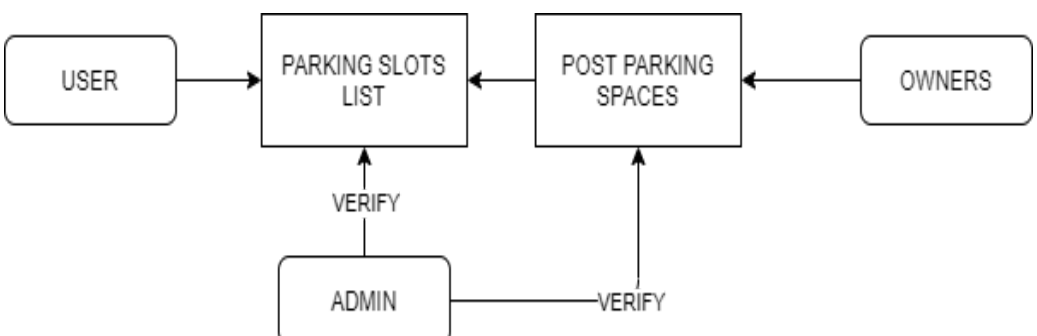
DATA FLOW DIAGRAM:

LEVEL 0:



DATA FLOW DIAGRAM:

LEVEL 1:



DATA FLOW DIAGRAM:

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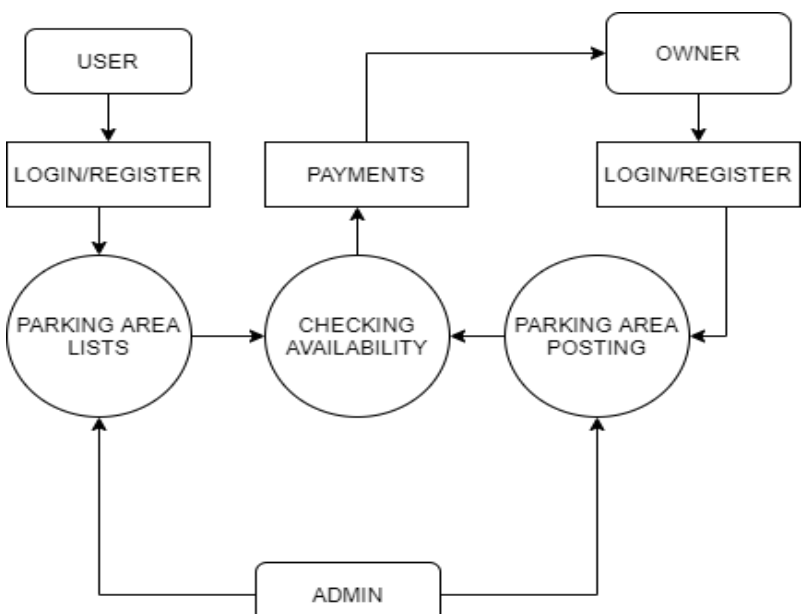
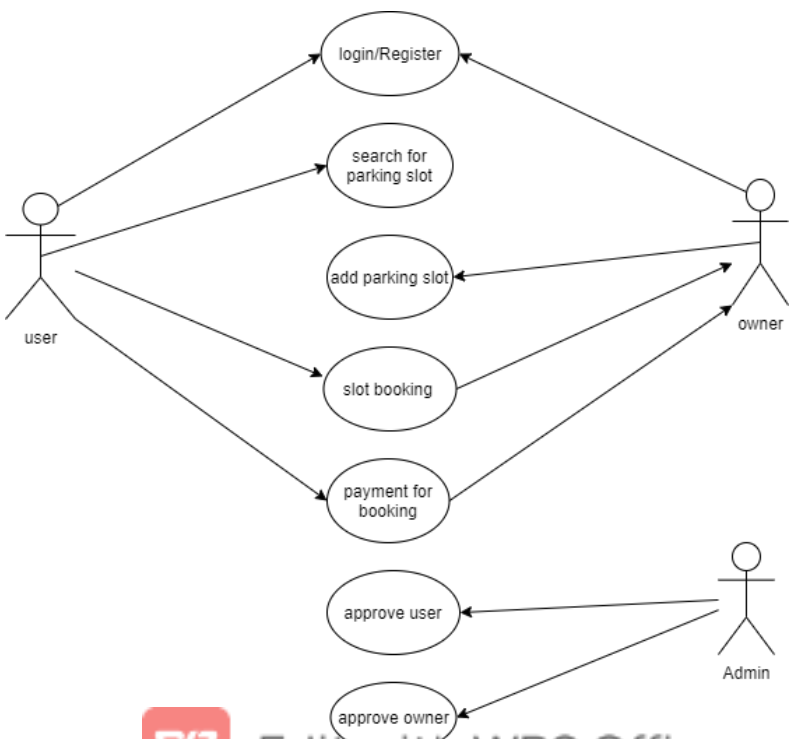
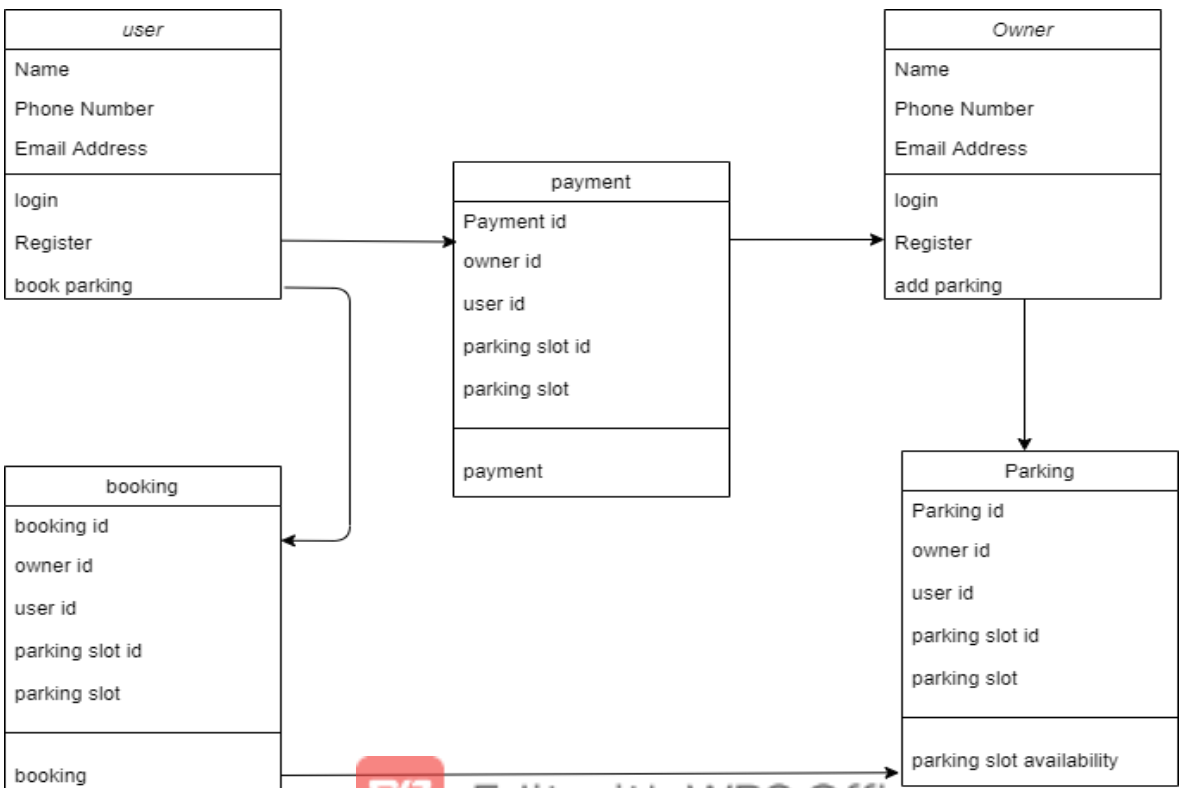


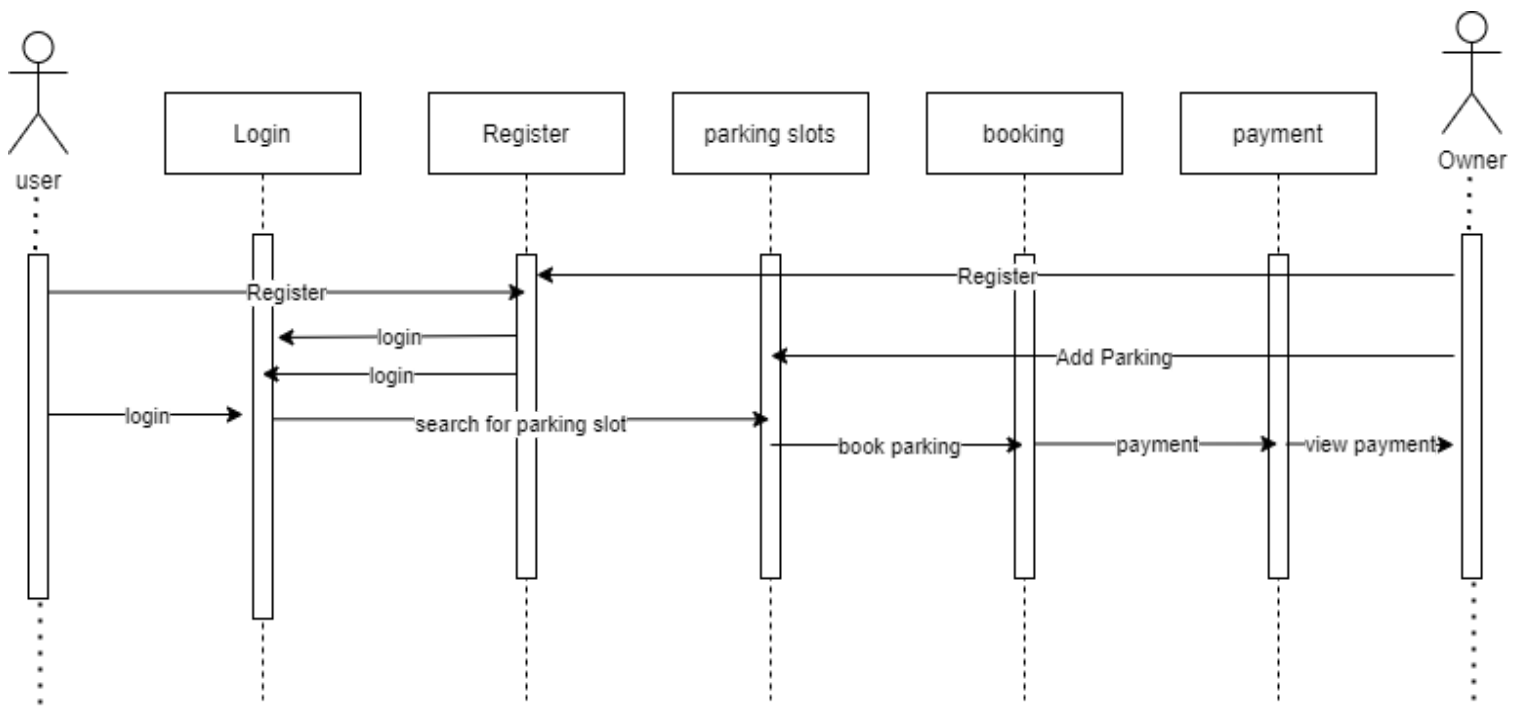
USECASE DIAGRAM



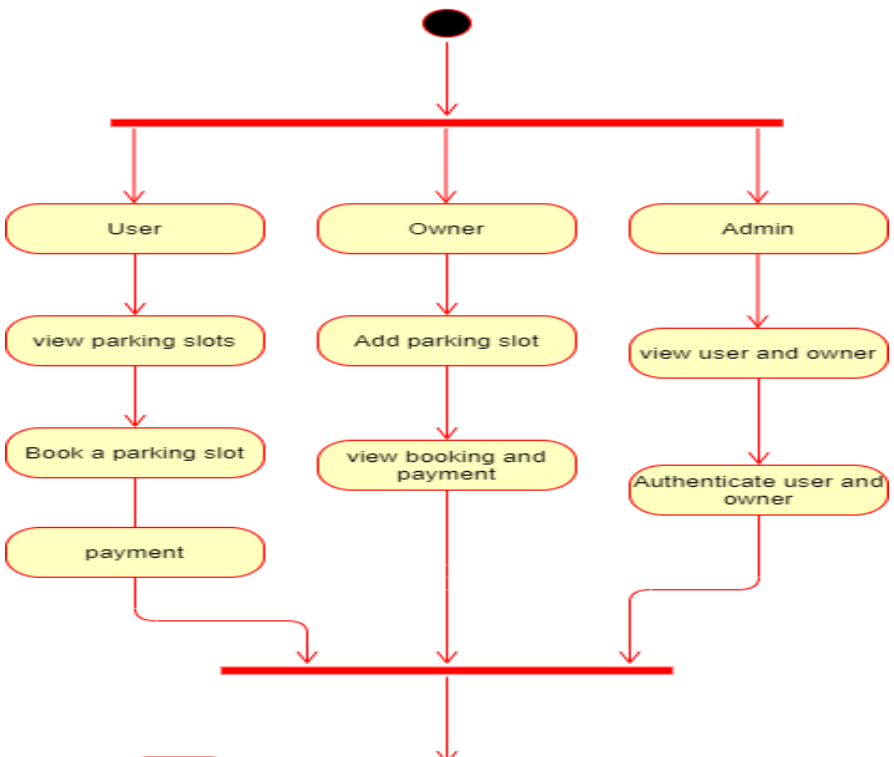
CLASS DIAGRAMS



SEQUENCE DIAGRAM



ACTIVITY DIAGRAM



COMPONENT DIAGRAM

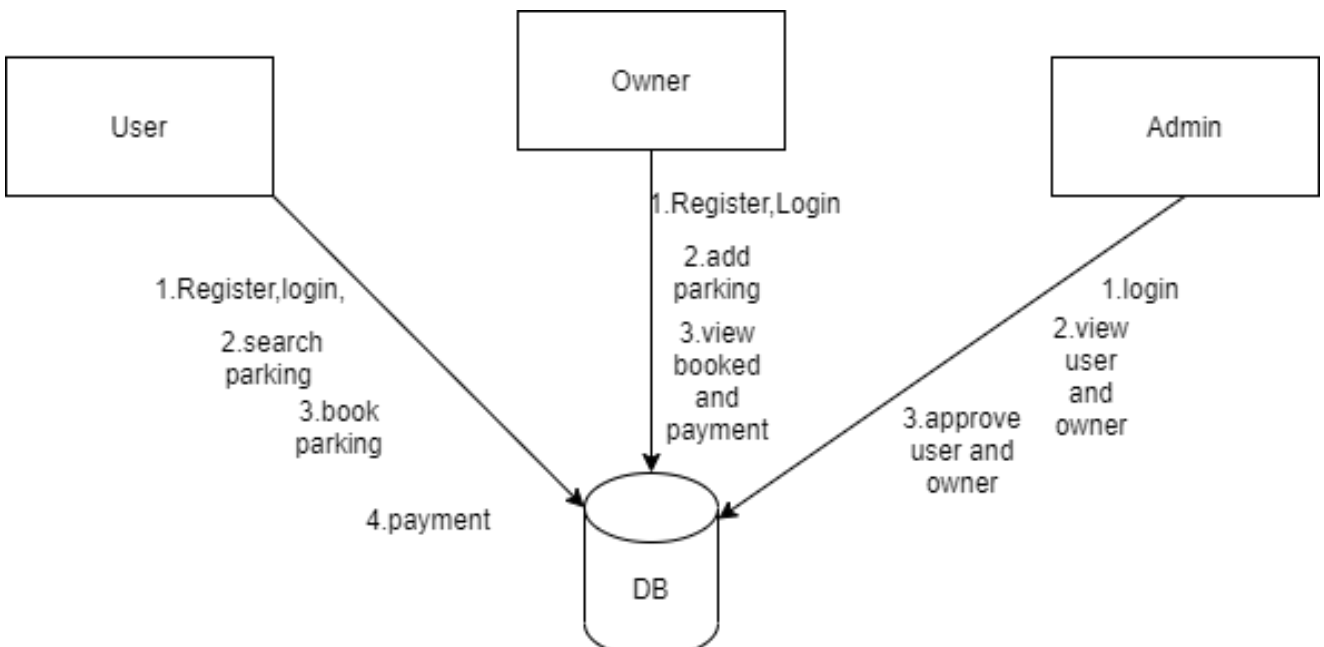


TABLE DESIGN:

USER:

Column Name	Data Type	Constraints
id	integer	Primary key
User Name	varchar	Not null
Password	varchar	Not null
E-mail	varchar	Not null
Phone Number	integer	Not null

OWNER:

Column Name	Data Type	Constraints
id	integer	Primary key
User Name	varchar	Not null
Password	varchar	Not null
E-mail	varchar	Not null
Phone Number	integer	Not null
Status	varchar	Not null
Address	varchar	Not null
No of plots	integer	Not null
Plot Available	Array	Not null

TABLE DESIGN:

PAYMENTS:

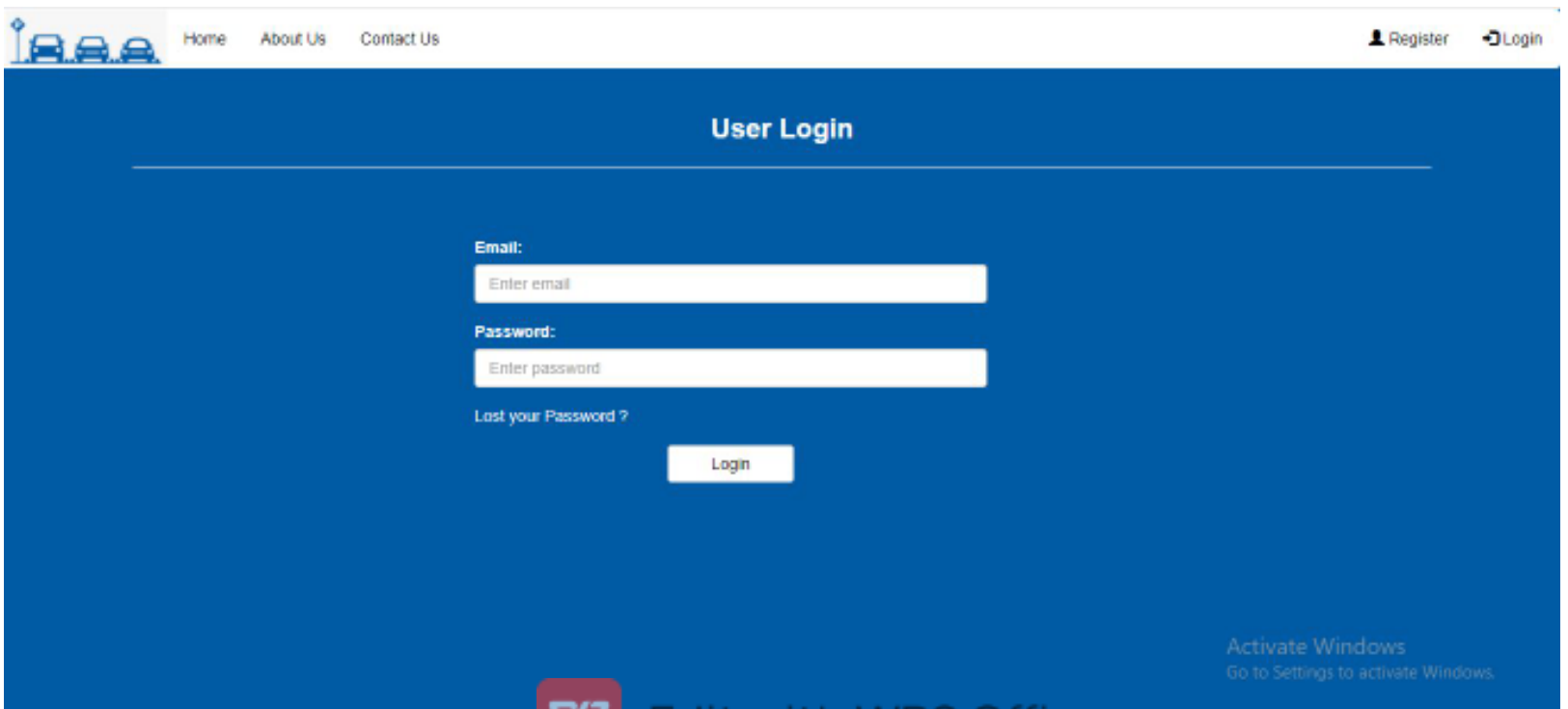
Column Name	Data Type	Constraints
Payment-id	Integer	Primary key
Address	Varchar	Not null
Plot	varchar	Not null
Status	varchar	Not null
Vehicle Model	varchar	Not null
Vehicle	varchar	Not null
Plot Number	integer	Not null
E mail	varchar	Not null
Account number	integer	Not null
Plot Available	varchar	Not null
Starting time	varchar	Not null
Ending time	varchar	Not null
Payment	Varchar	Not null

TABLE DESIGN:

ADMIN:

Column Name	Data Type	Constraints
id	integer	Primary key
User Name	varchar	Not null
Password	varchar	Not null

SCREEN SHOTS:



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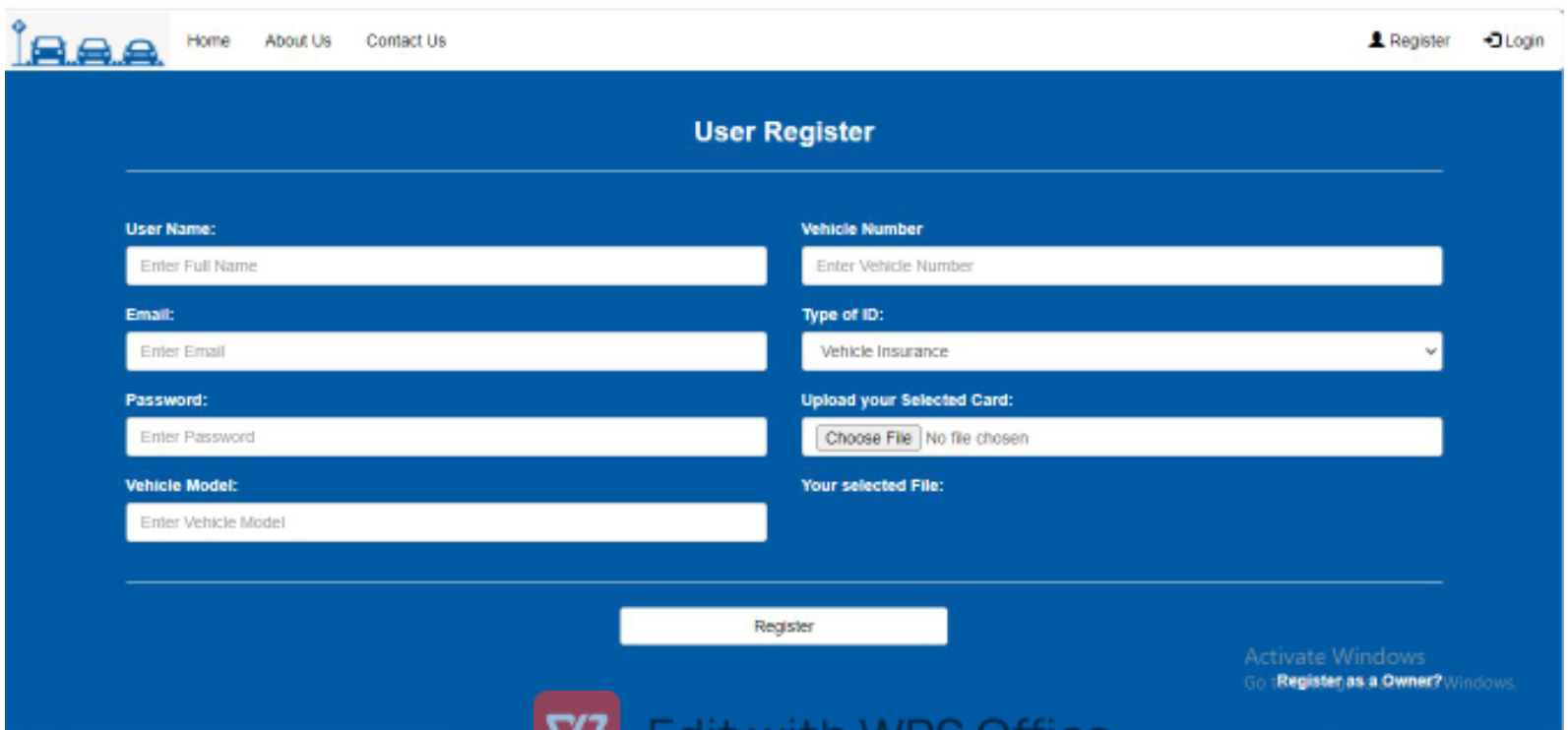

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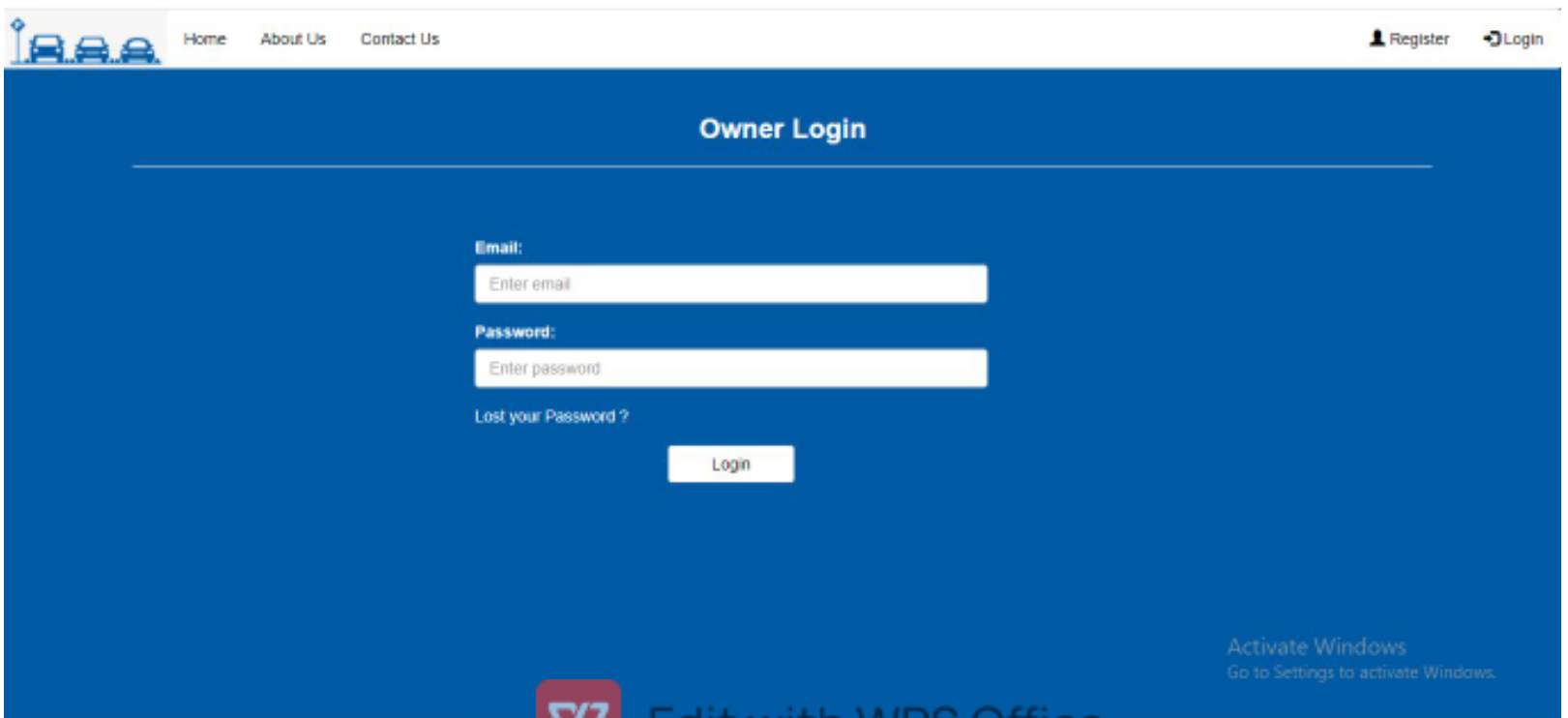

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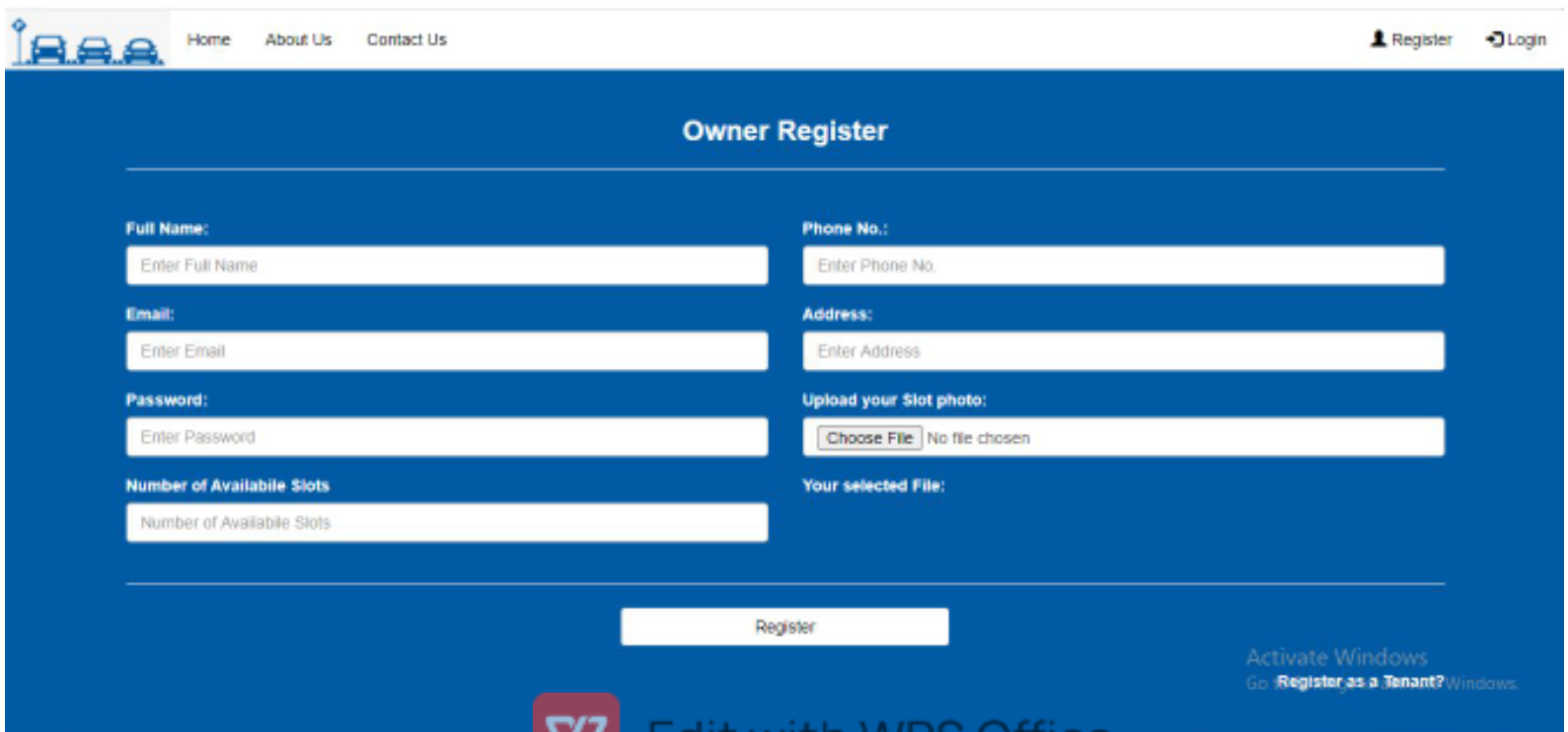

ACHIVEMENTS

Goal achieved:

The System is able provide the interface to the user so that he can replicate his desired data. .

User friendliness:

Though the most part of the system is supposed to act in the background, efforts have been made to make the foreground interaction with user as smooth as possible. Also the integration of the existing system with the project has been kept in mind throughout the development phase.

CONCLUSION

This shared parking allocation problems between parking demands in commercial buildings and parking supplies in residential zones. The concept of shared parking is proposed, which is according to the preconditions of shared parking implementation. Then, the feasibility of shared parking between parking requests from commercial buildings and private paid or public free parking lots in residential zones is initially evaluated by analyzing the characteristics of shared parking, which include win-win, convenience, economy, and real-time performance. Next, a bitrate parking spaces allocating model involving the minimum walking distance and the maximum utilization is proposed. Themodelcomprehensivelyconsidersthedrivers'walkingdistanceandtheutilization ofparkingspaces.Itnotonlyreceivesreceptionrequestsforbuildingsincommercial zones, but also assigns them to corresponding vacant parking lots in accordance with the model hypothesis and parking space-time constraints. PSO algorithms applied to solve the parking allocation model.