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Real Time Project Seminar
on

SMART PARKING GARAGE

BY

B.TECH(CSE-AI&ML) II Year - II Semester

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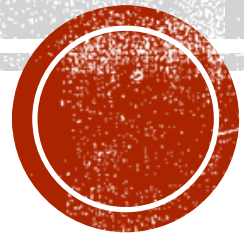
HEAD OF THE DEPARTMENT
Dr .S. RANGA SWAMY ., M .Tech., Ph. D
Department of CSE (AIML)

SMART PARKING GARAGE



CONTENTS

INTRODUCTION

- Revolutionizing Urban Mobility with Smart Parking Solutions In today's rapidly urbanizing world, efficient management of urban spaces has become more crucial than ever.

- One of the most persistent challenges faced by urban dwellers is the hassle of finding parking spaces.

- The traditional approach to parking management often leads to congestion, frustration, and environmental impact due to increased vehicle emissions.

- To address these challenges, the concept of smart parking systems has emerged as a transformative solution. Smart parking leverages advanced technologies such as Iot(Internet of Things), data analytics, and mobile applications to optimize the utilization of parking spaces and enhance the overall parking experience for users.

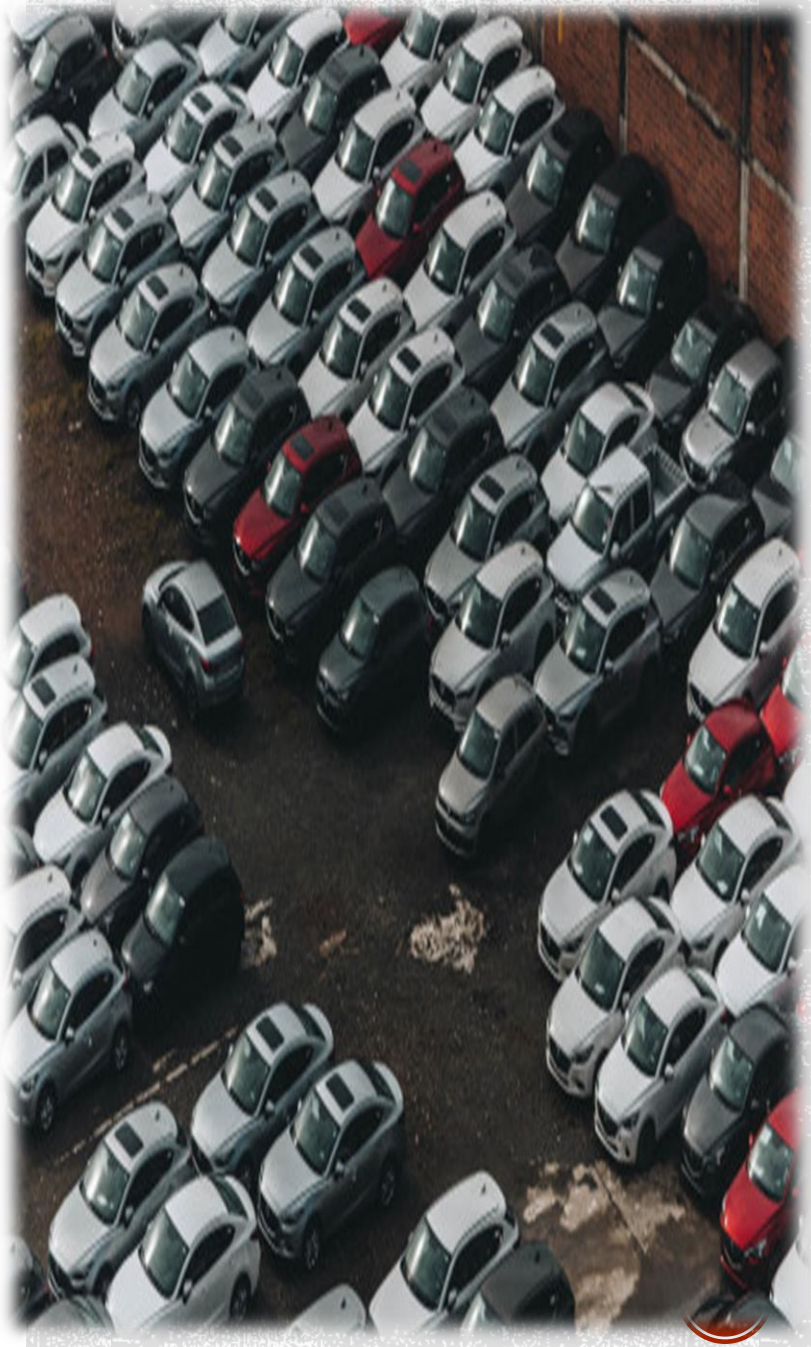
ABSTRACT:

The main aim of the “Smart Parking Garage” is used for tracking and detecting the empty slots for parking of vehicles which allow the customers to save their time. For parking of the vehicles we are using online registrations. At the time of registrations the customers will provide the information like how much time vehicle is parked or the registration is done for future parking, At the time of registration the system will take the details like License plate number, his credit card, his mail id and if a customer want to maintain reservation for a long time he can also make a monthly contact. In this project we have mainly considered the area for parking of the vehicles is Kansas, Lees Summit, Warrensburg.

EXISTING SYSTEM

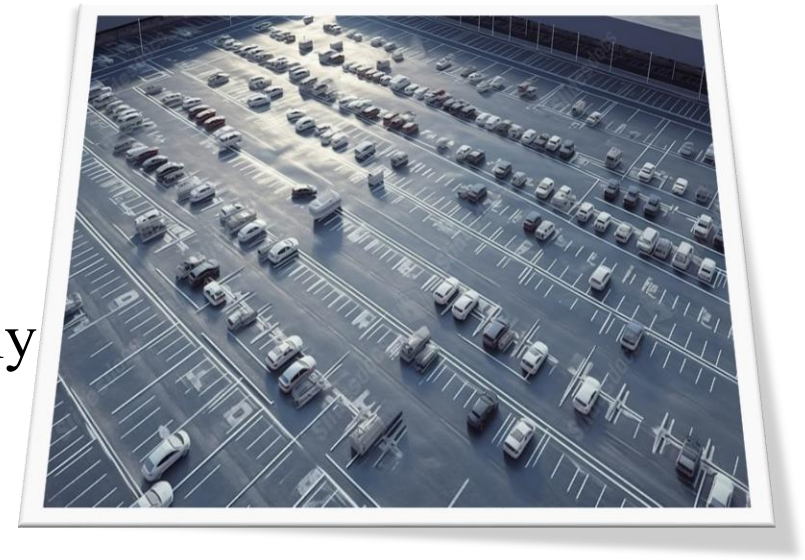
- In existing system, a mobile application is used to find the free parking slots to park their vehicles to save their time and energy.

- In this app it will display the near parking slots after login the app, the user will get a user id to use the allocated parking sl



DISADVANTAGES

1. Time consumption
2. Unable to find out parking slots online
3. Requires regular maintainance. The parking system are usually automated, but they require regular maintainance to ensure everything is working smoothly..

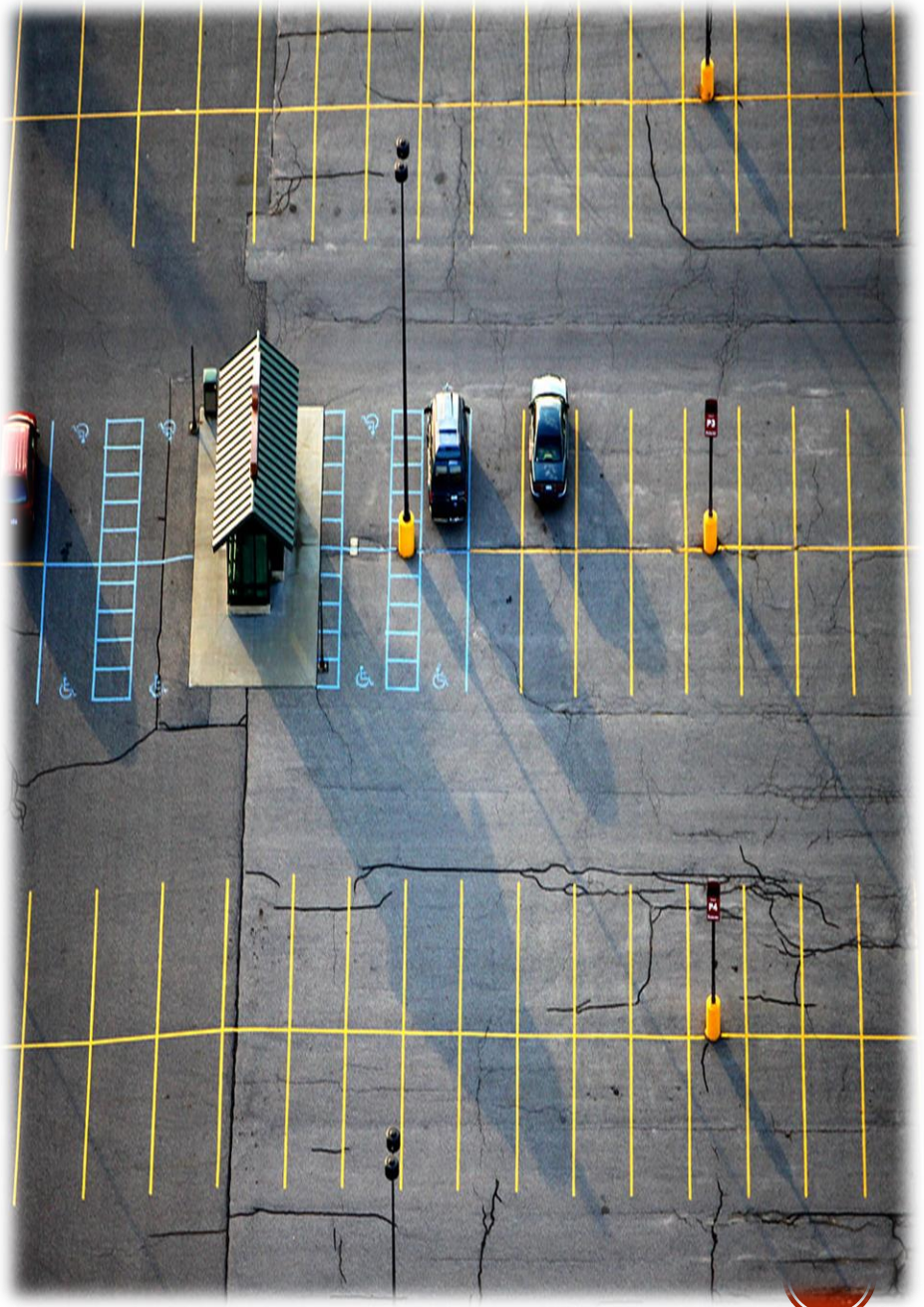


PROPOSED SYSTEM

- In this proposed system, the mobile application consists the register and login page for the security purpose and to provide a particular slot to the user.
- It also displays the petrol bunks and the shopping malls that are available in the parking areas.
- In this traffic also reduce in the parking slots by using IR sensors to allocate the slots for the users who are register in the application.

ADVANTAGES

1. To check the parking slot availability.
2. The user to locate and reserve a parking slot in online, navigation from entrance gate to available parking slot.
3. The system reduces the driver's effort and time to search parking space.

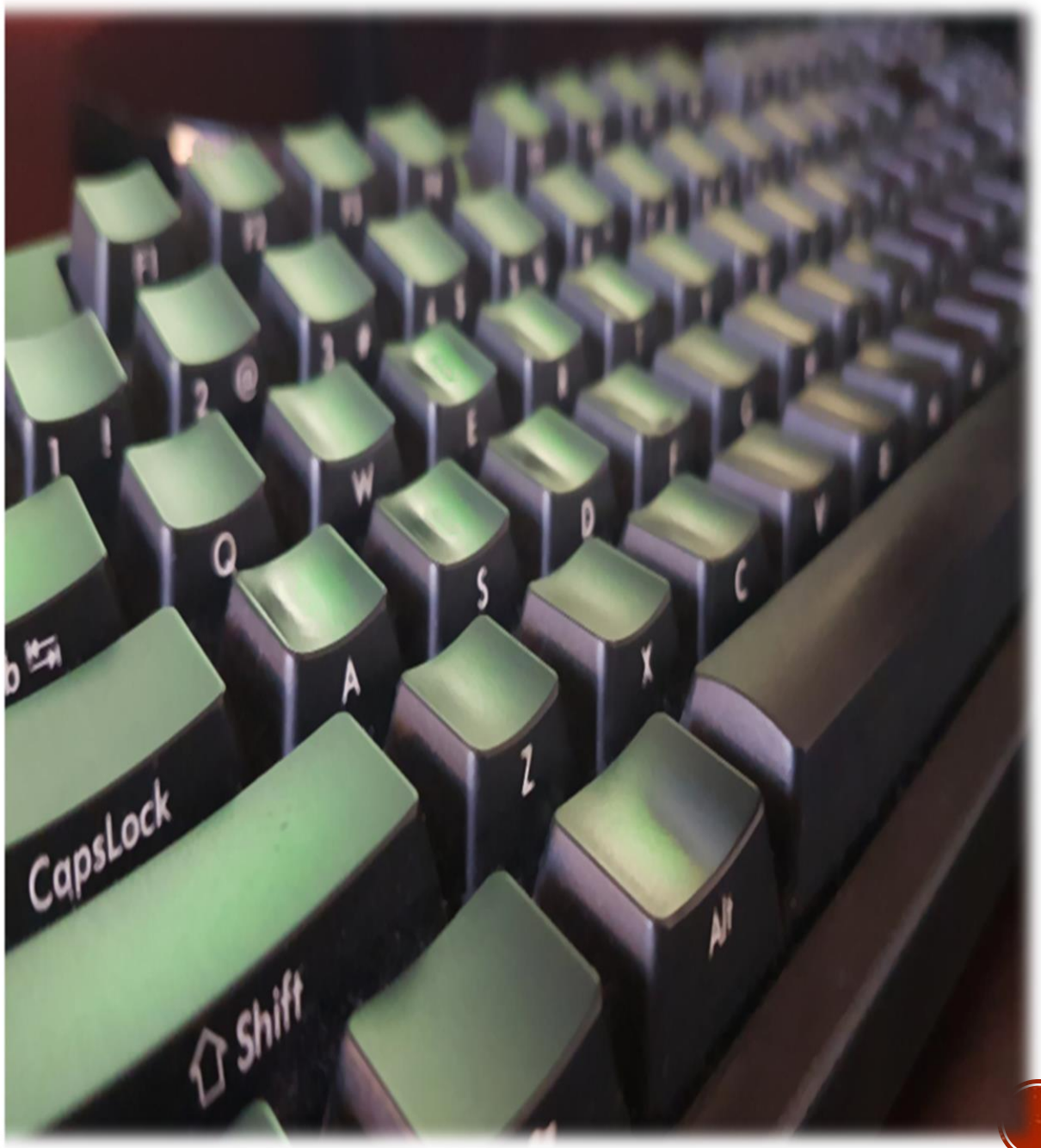


ADVANTAGES

- ✓ To check the parking slot availability.
- ✓ The user to locate and reserve a parking slot in online, navigation from entrance gate to available parking slot.
- ✓ The system reduces the driver's effort and time to search parking space.

HARDWARE SPECIFICATIONS

- Processor : Pentium-III (or) higher
- Ram : 64MB (or) Higher
- Cache : 512MB
- Hard disk : 10GB



SYSTEM ARCHITECTURE

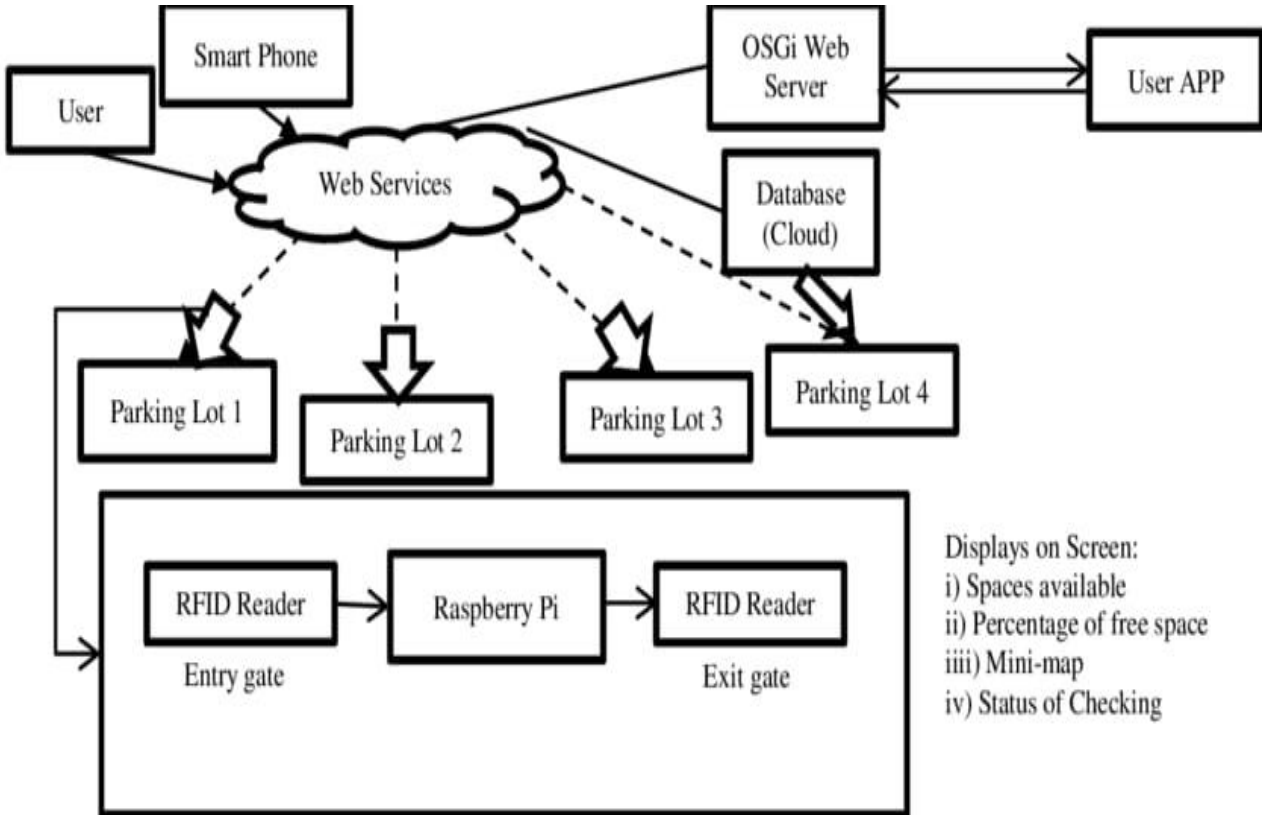
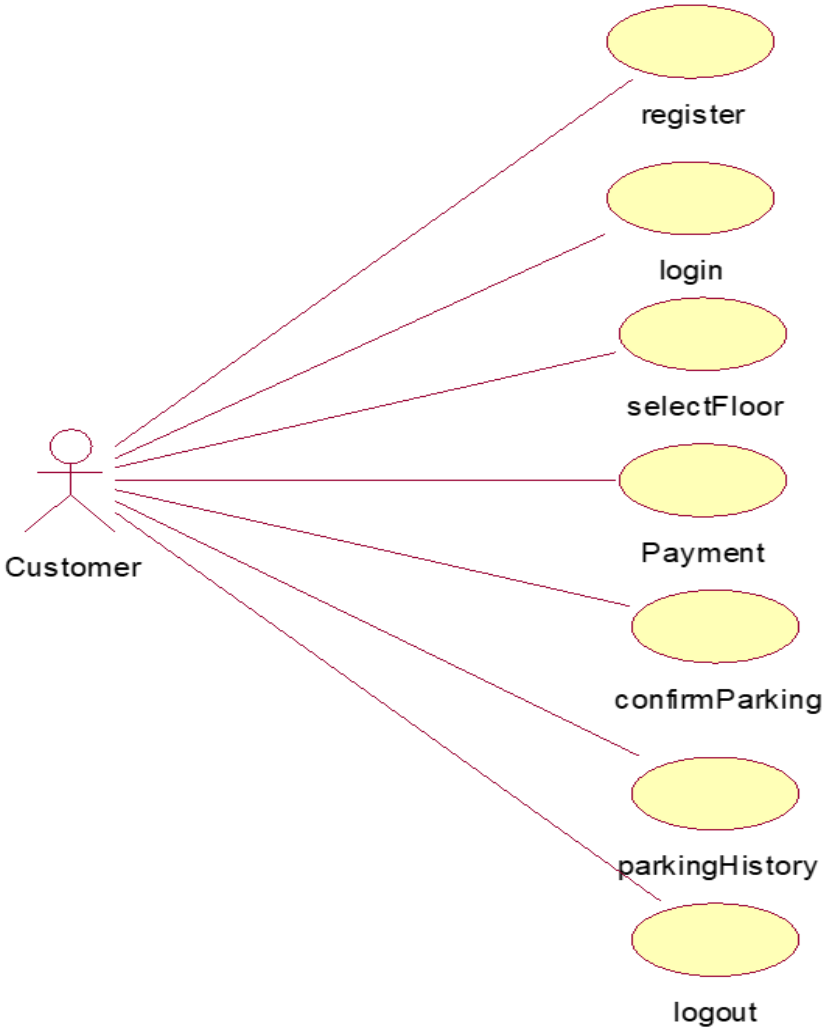
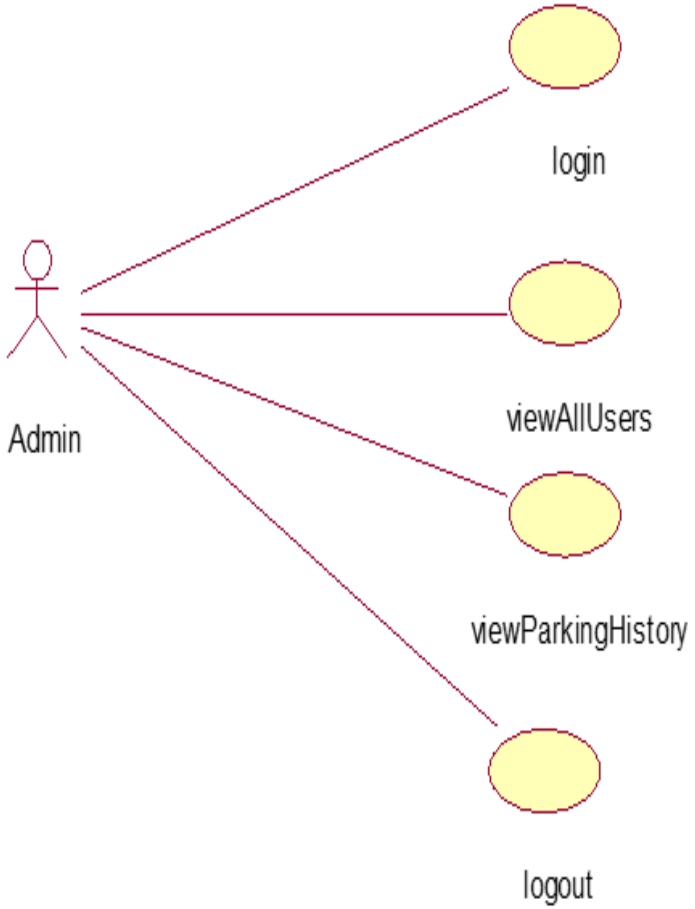


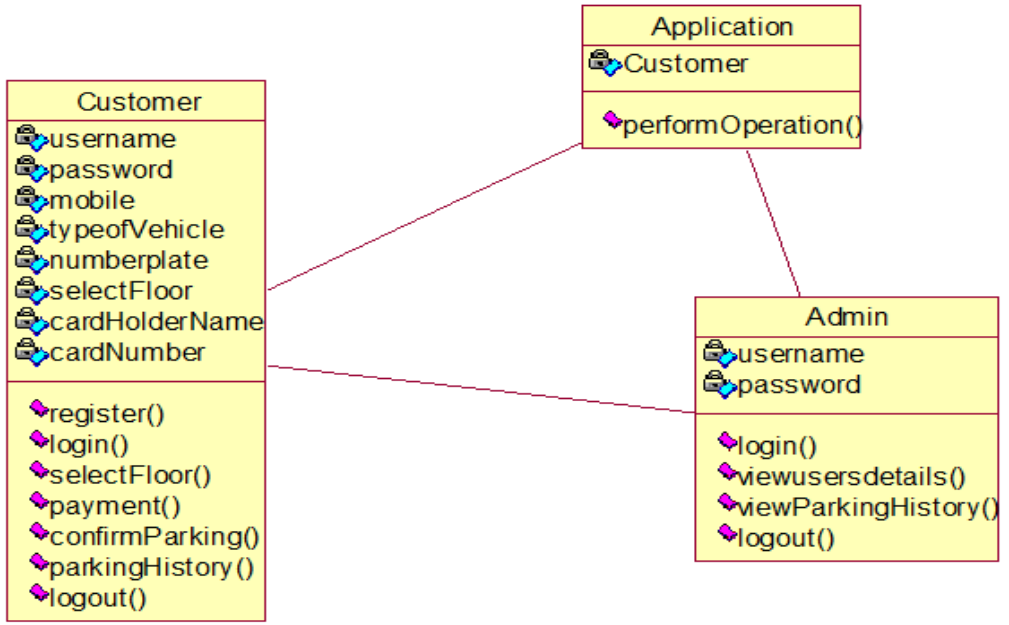
FIG:ARCHITECTURE FLOW

USE CASE DIAGRAM

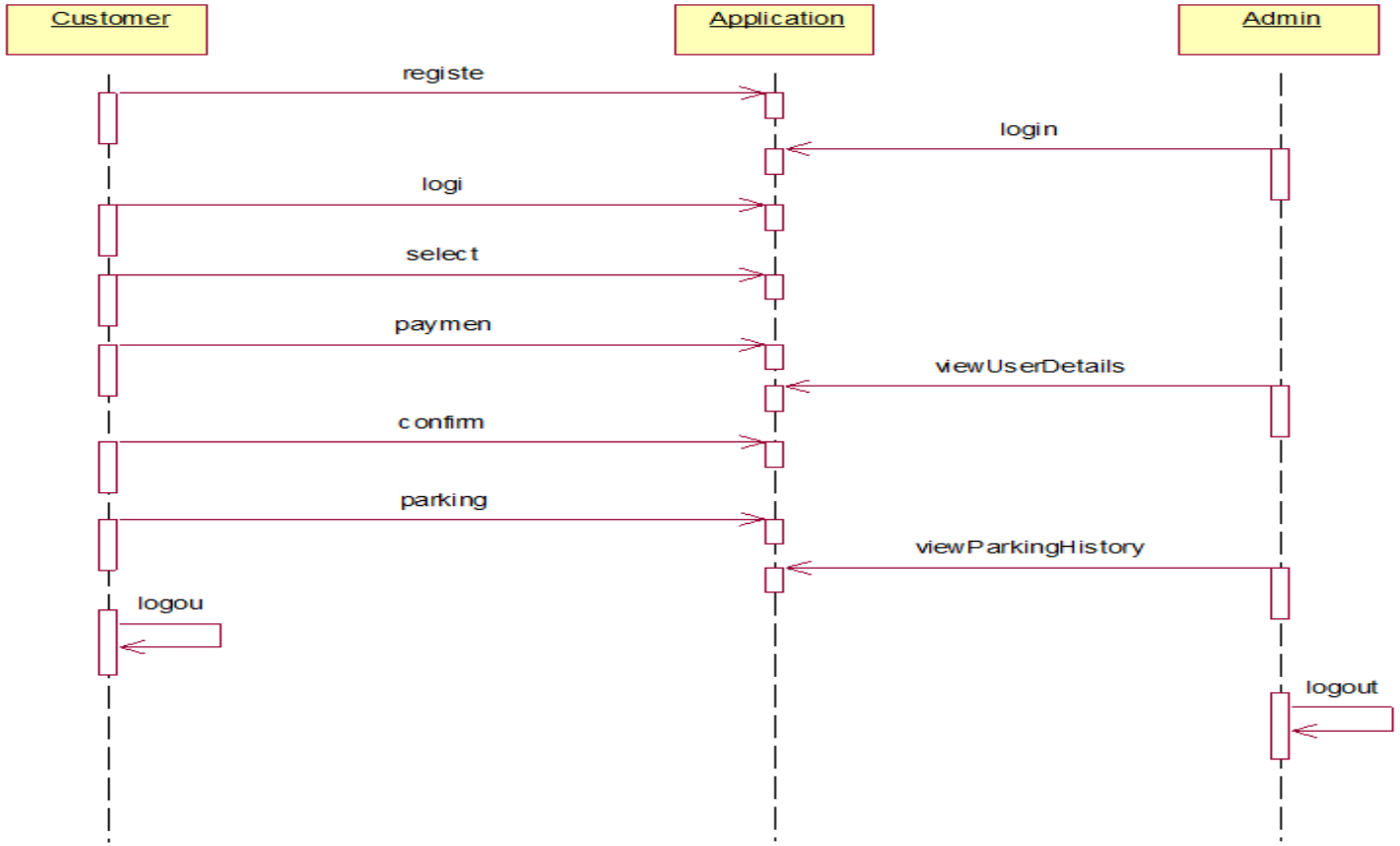




CLASS DIAGRAM



SEQUENCE DIAGRAM



RESULT

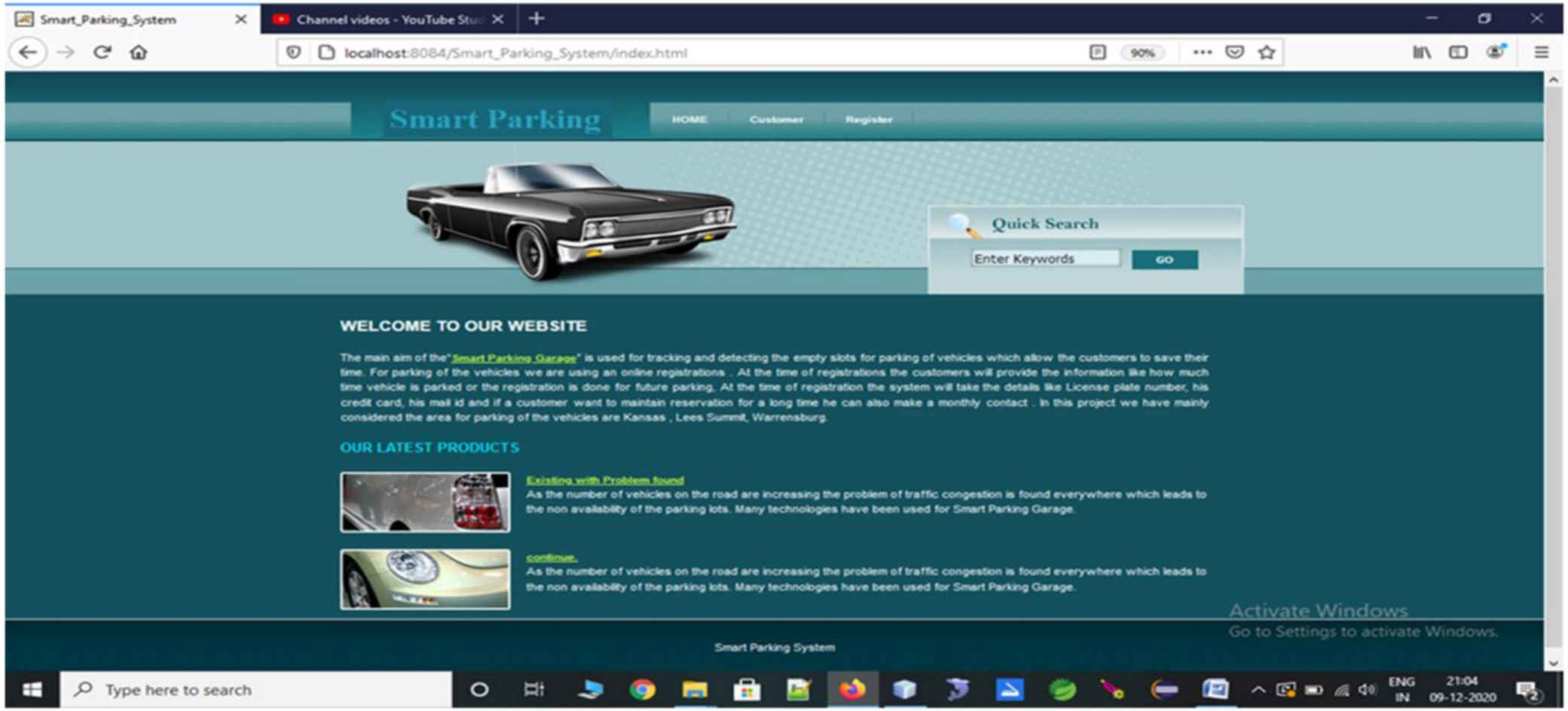


FIG 1.HOME PAGE

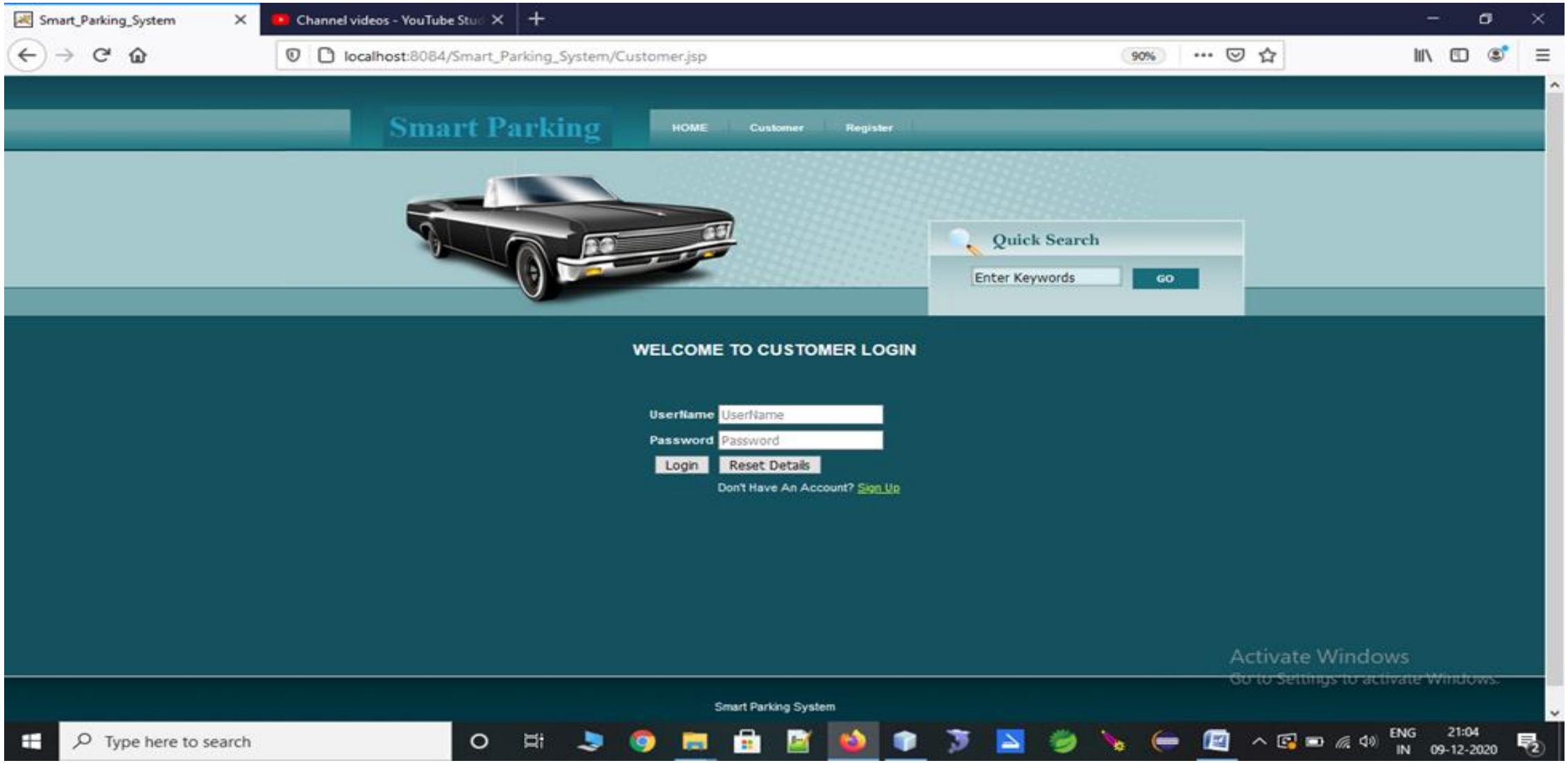


FIG 2.SMART PARKING LOGIN PAGE

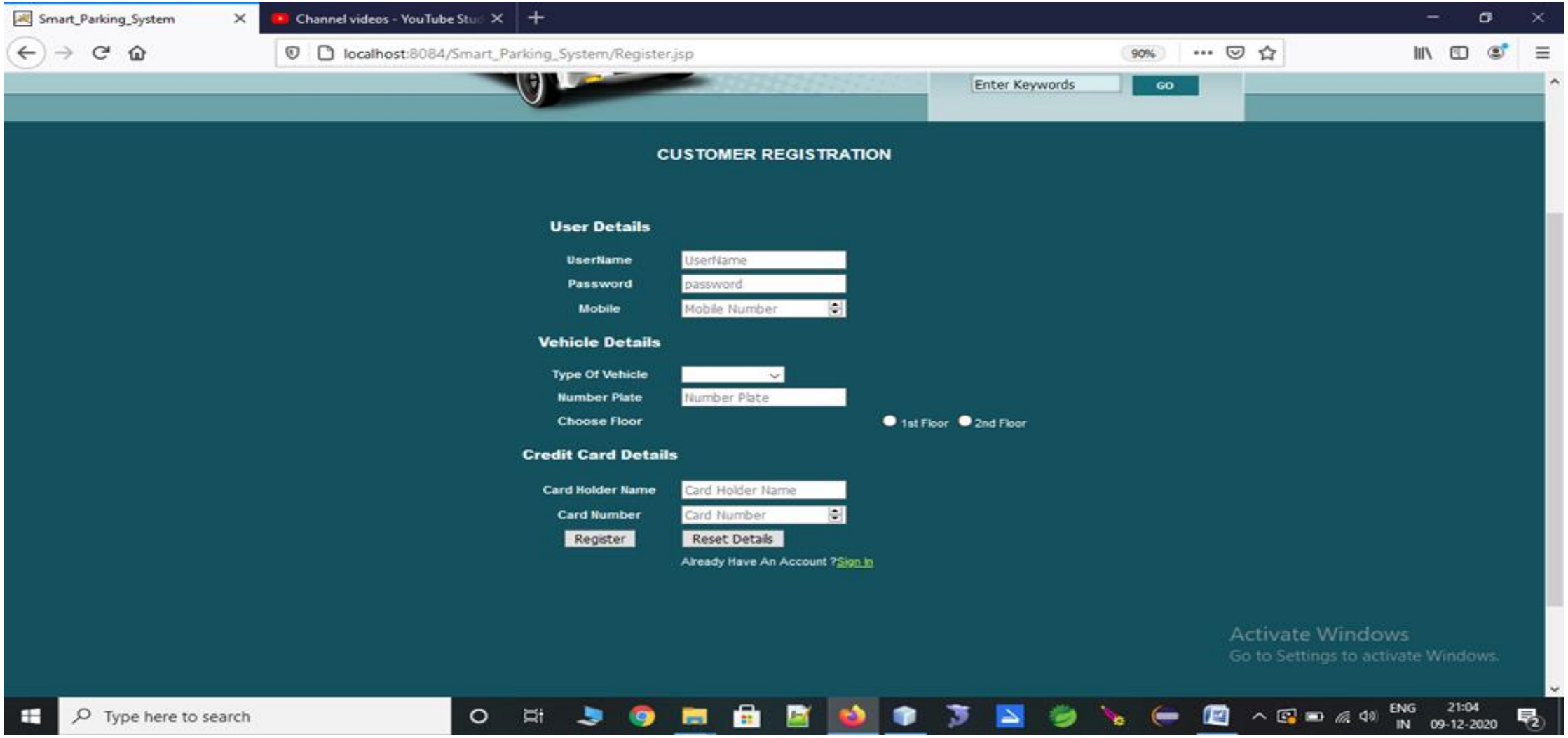


FIG 3. REGISTRATION PAGE

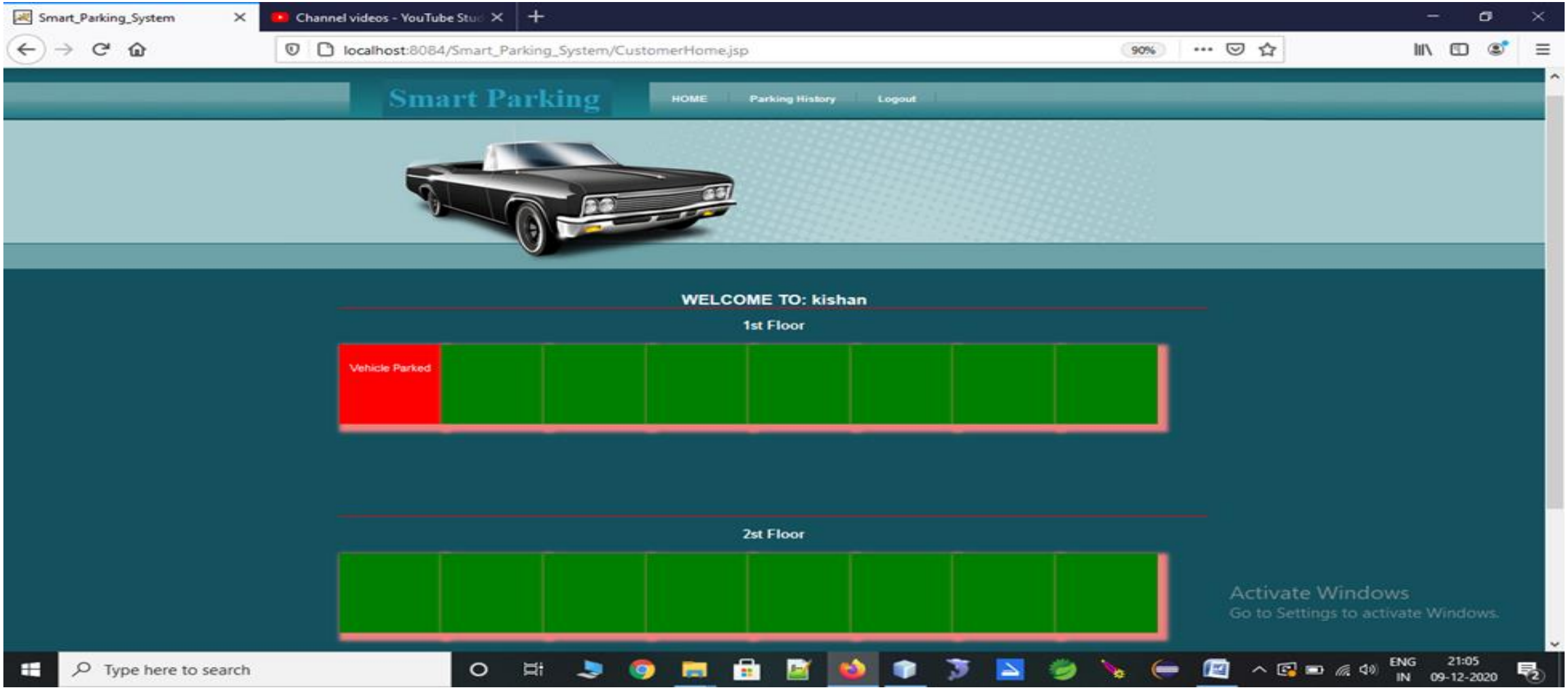


FIG 4.CUSTOMER HOME

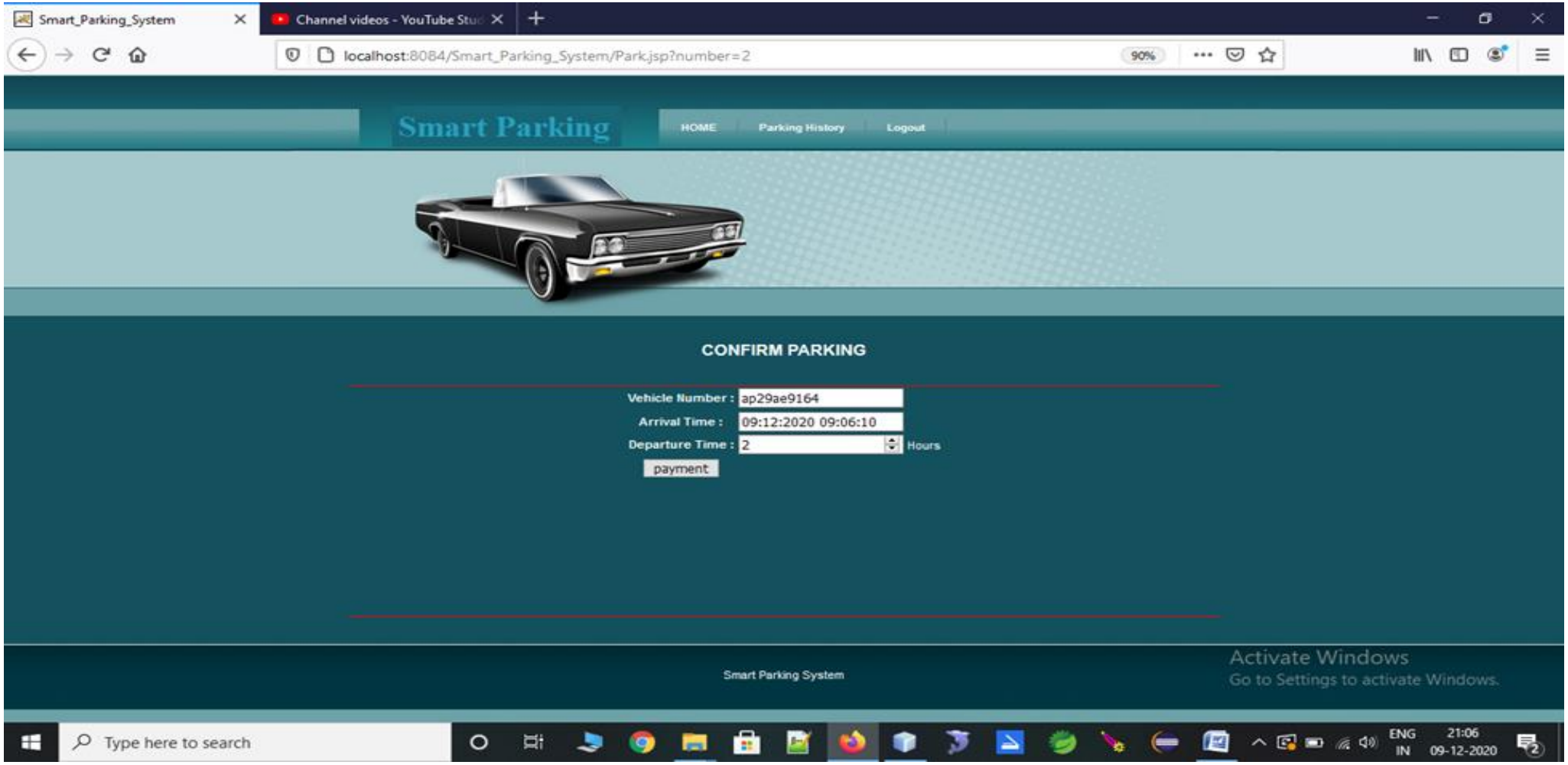


FIG 5. CONFIRM PARKING

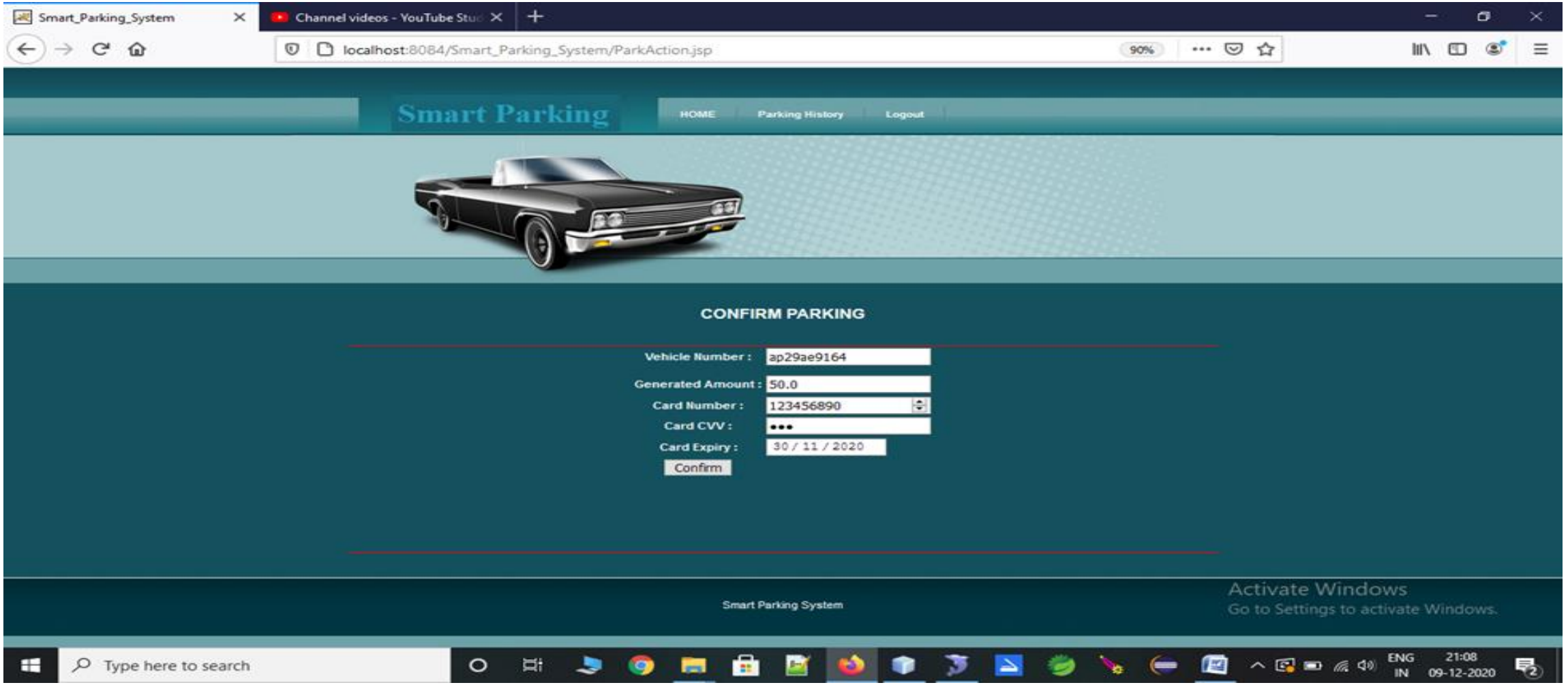


FIG 6. CONFIRM PARKING PAGE

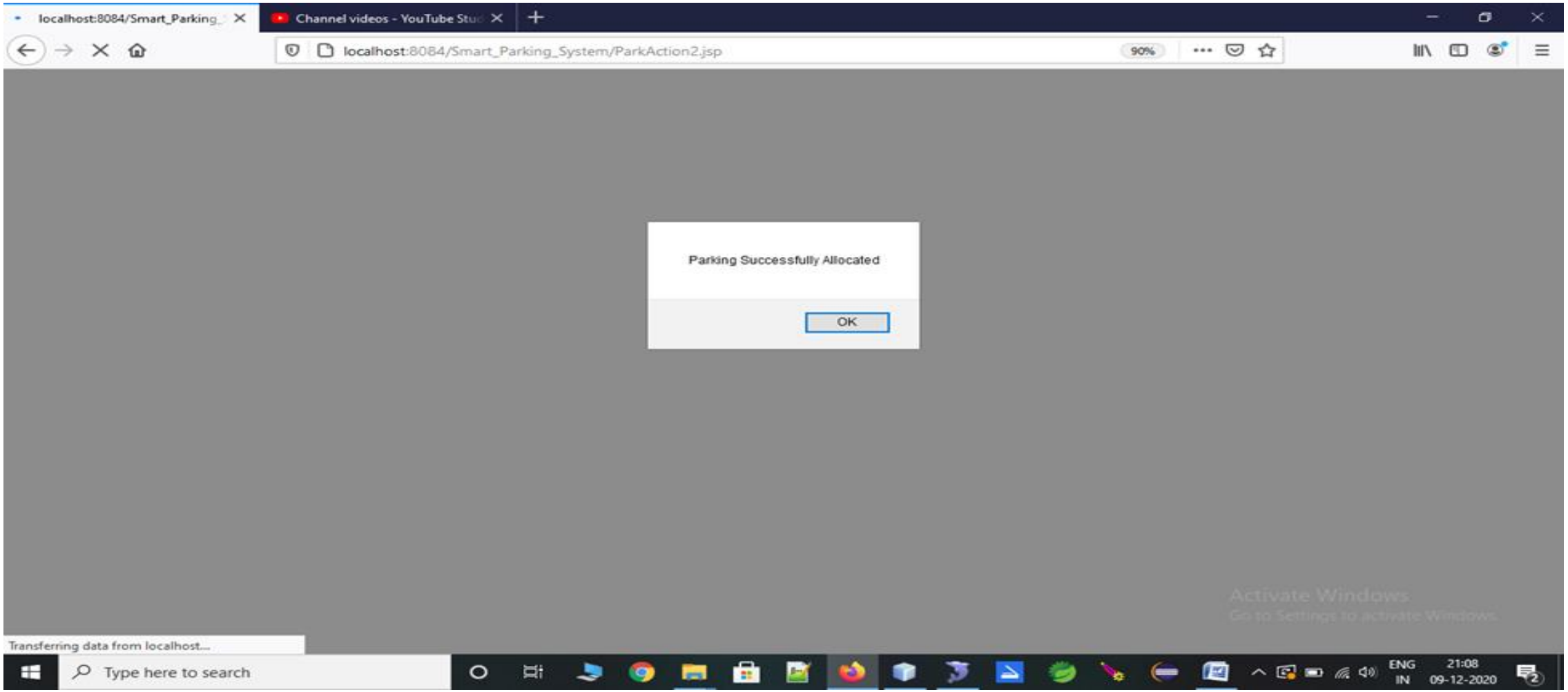


FIG 7. SUCCESS MESSAGE

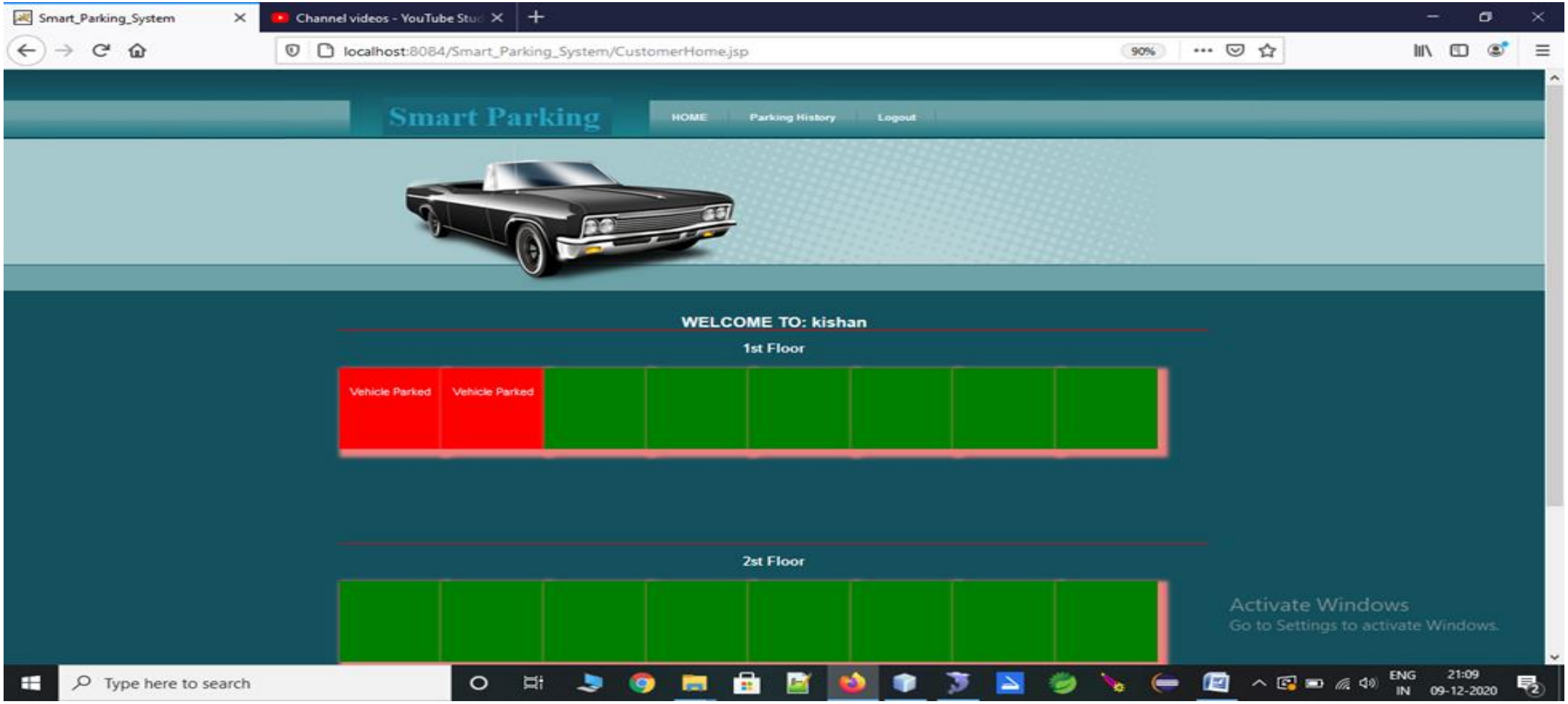


FIG 8. PARKING ALLOCATED TO SECOND PLACE

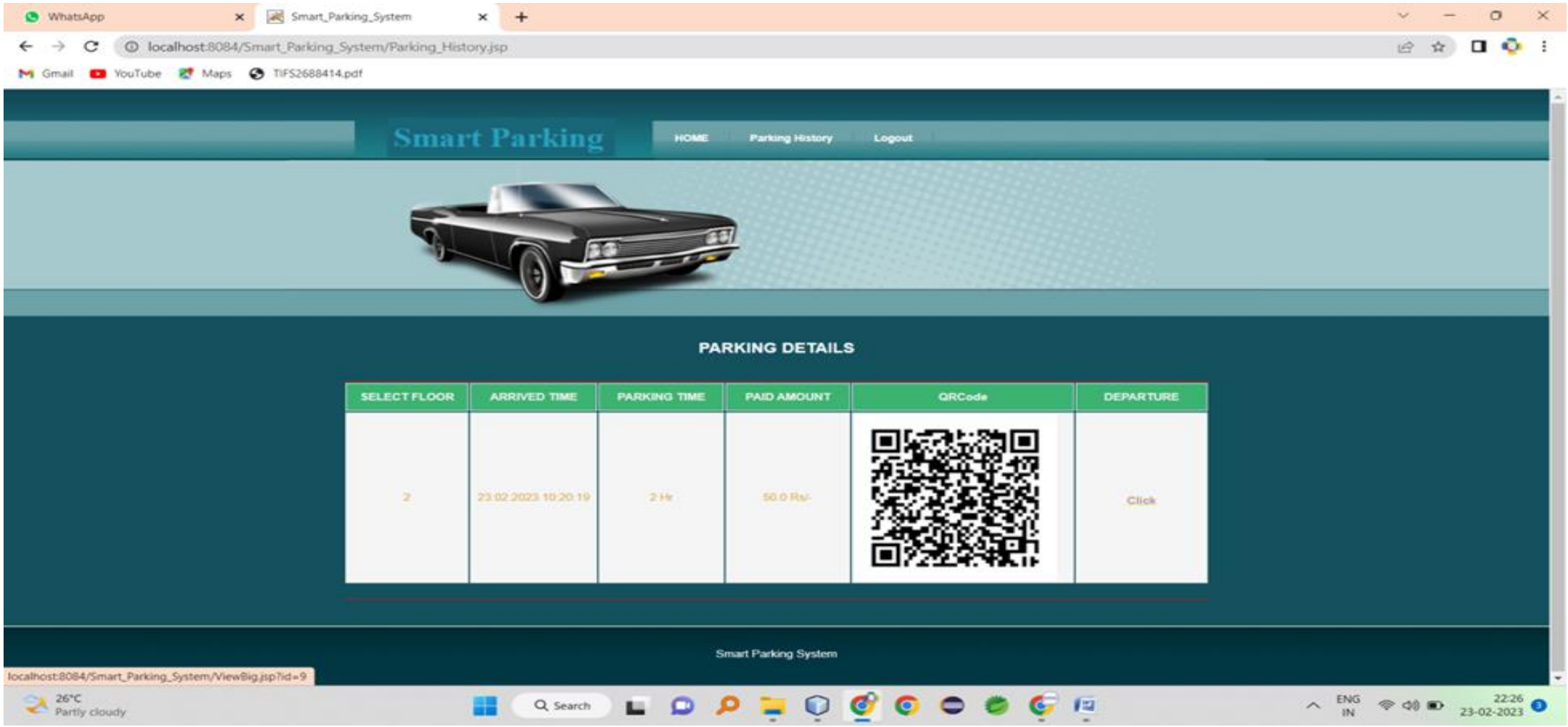


FIG 9. PARKING DETAILS

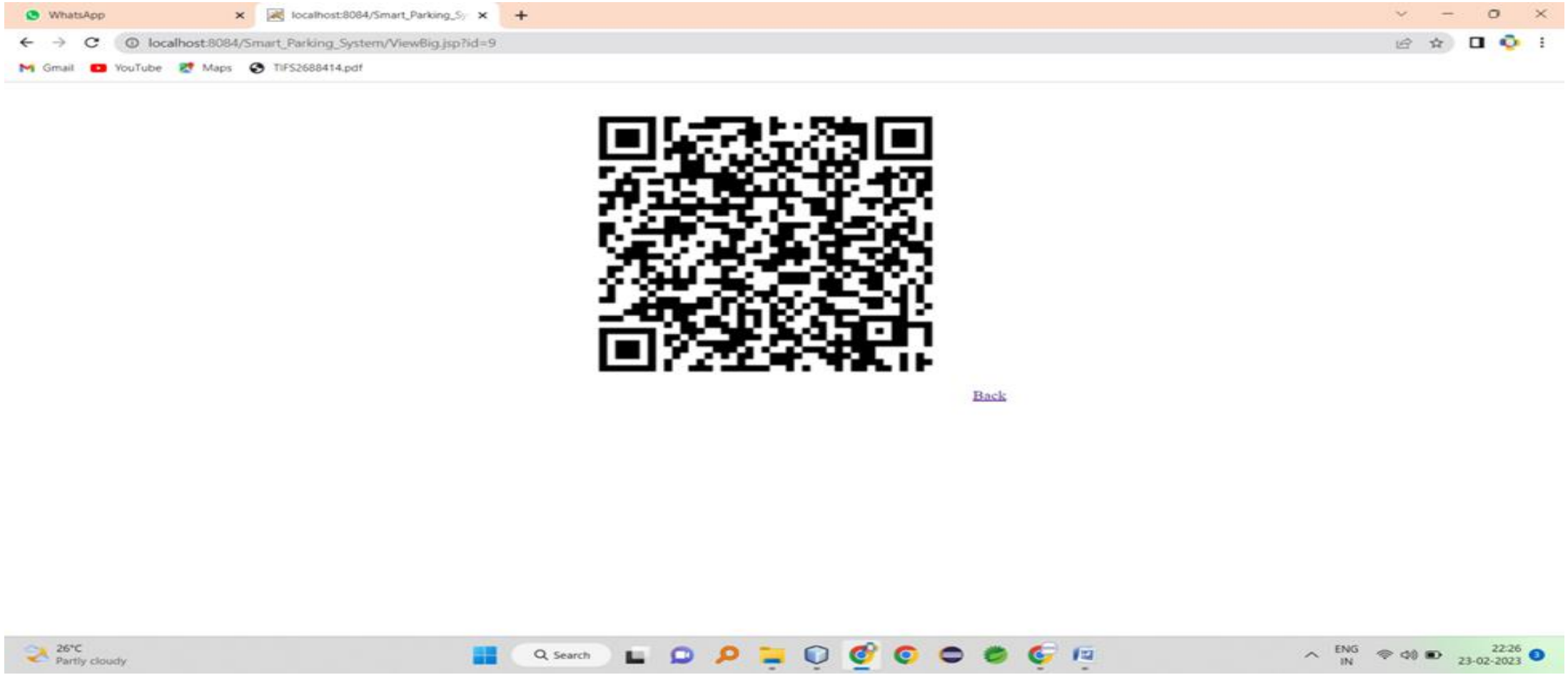


FIG 10. QR CODE IMAGE

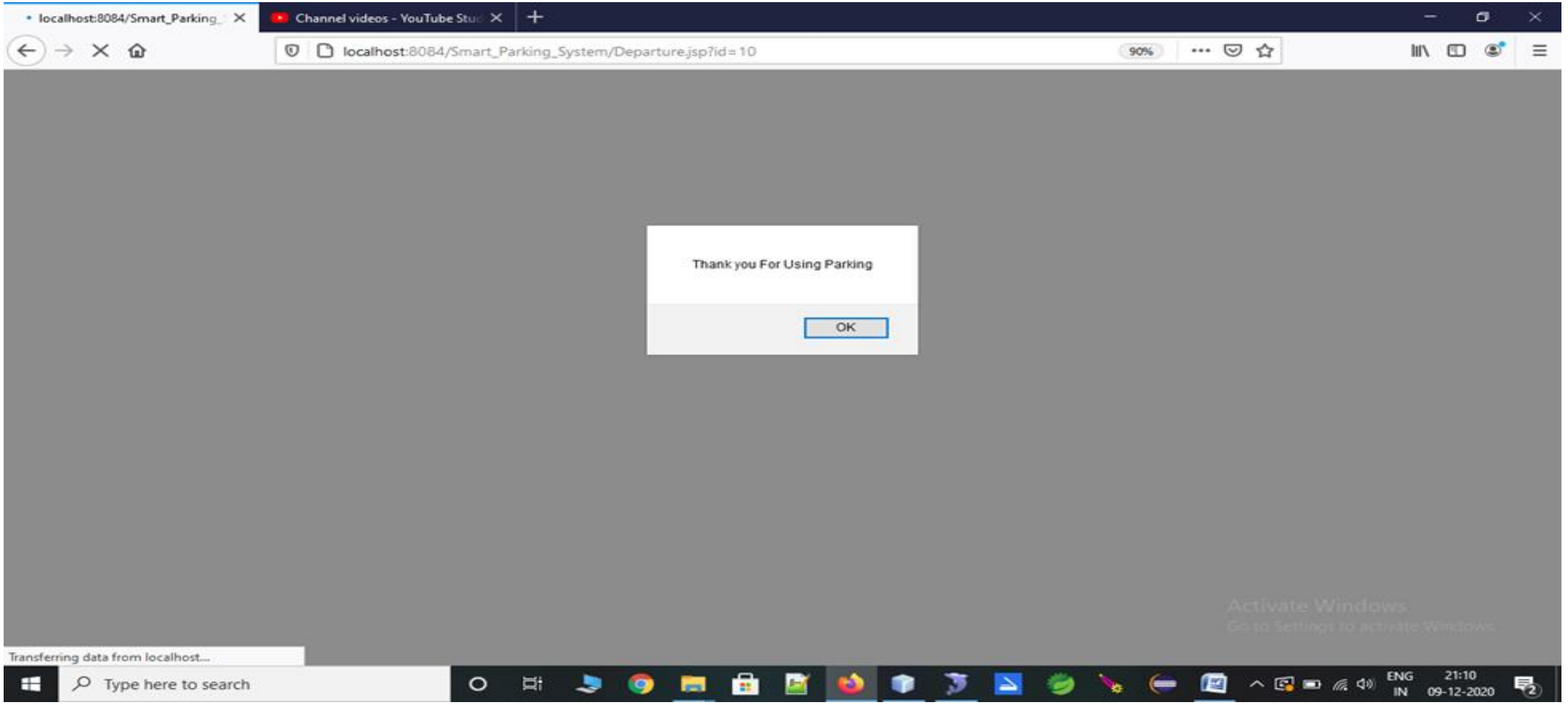


FIG 11. WHEN YOU DEPART

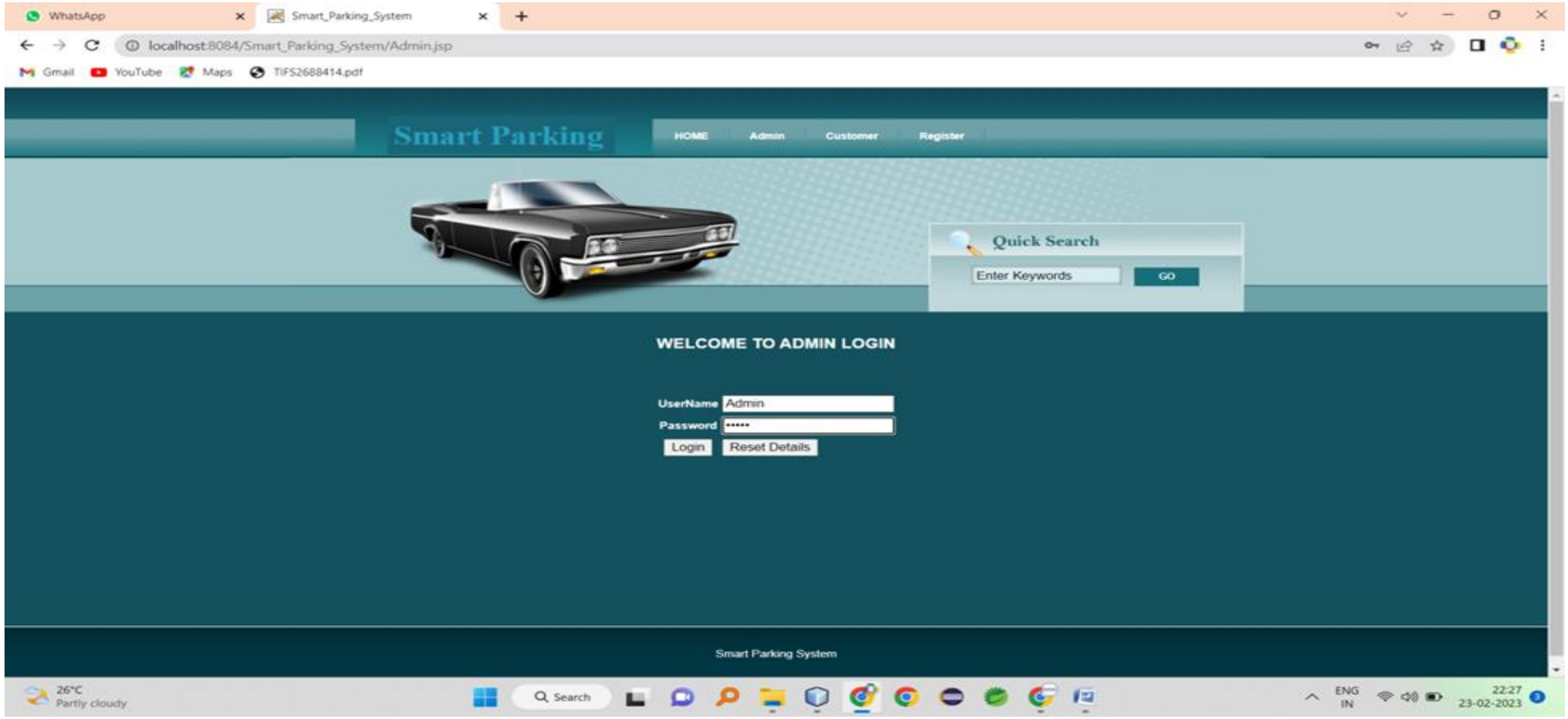


FIG 12 . ADMIN LOGIN

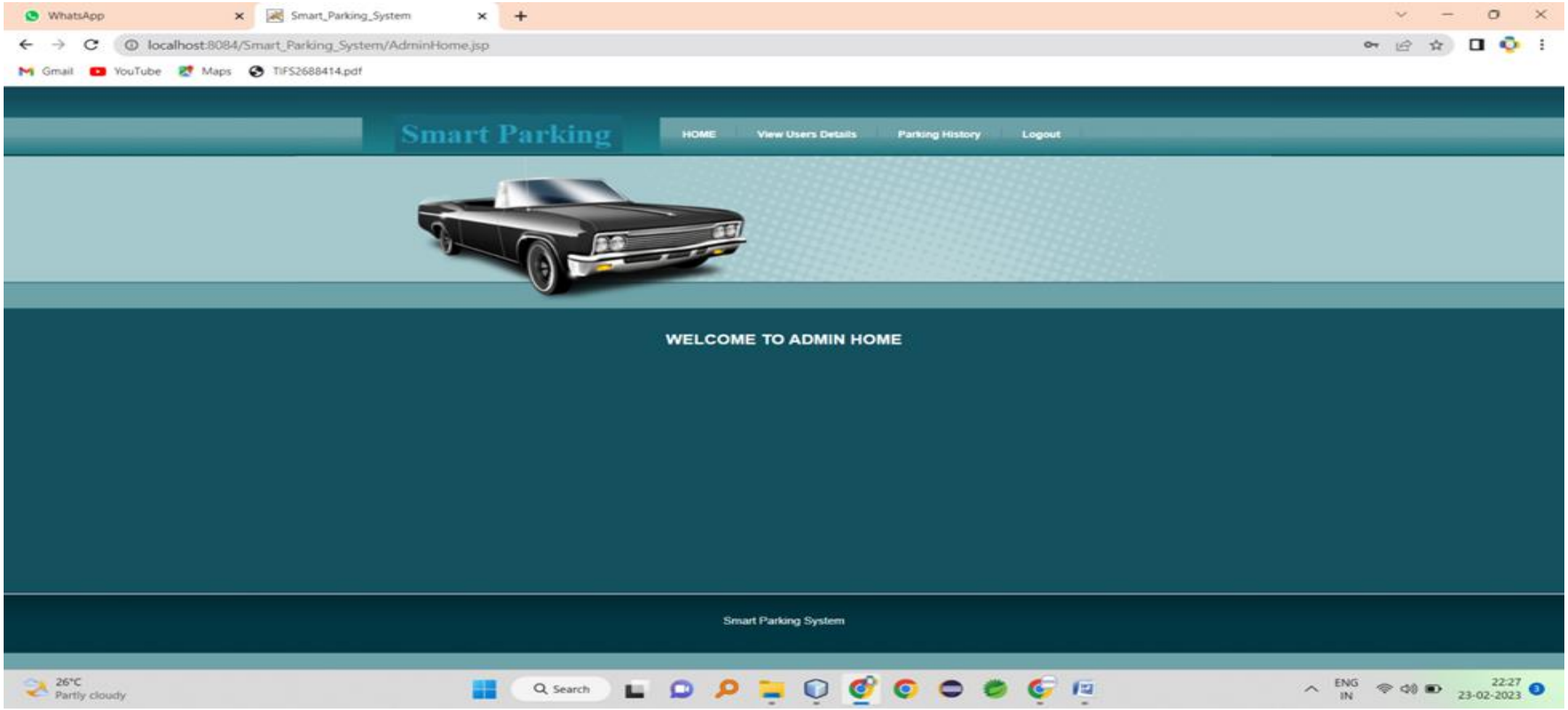


FIG 13. ADMIN HOME

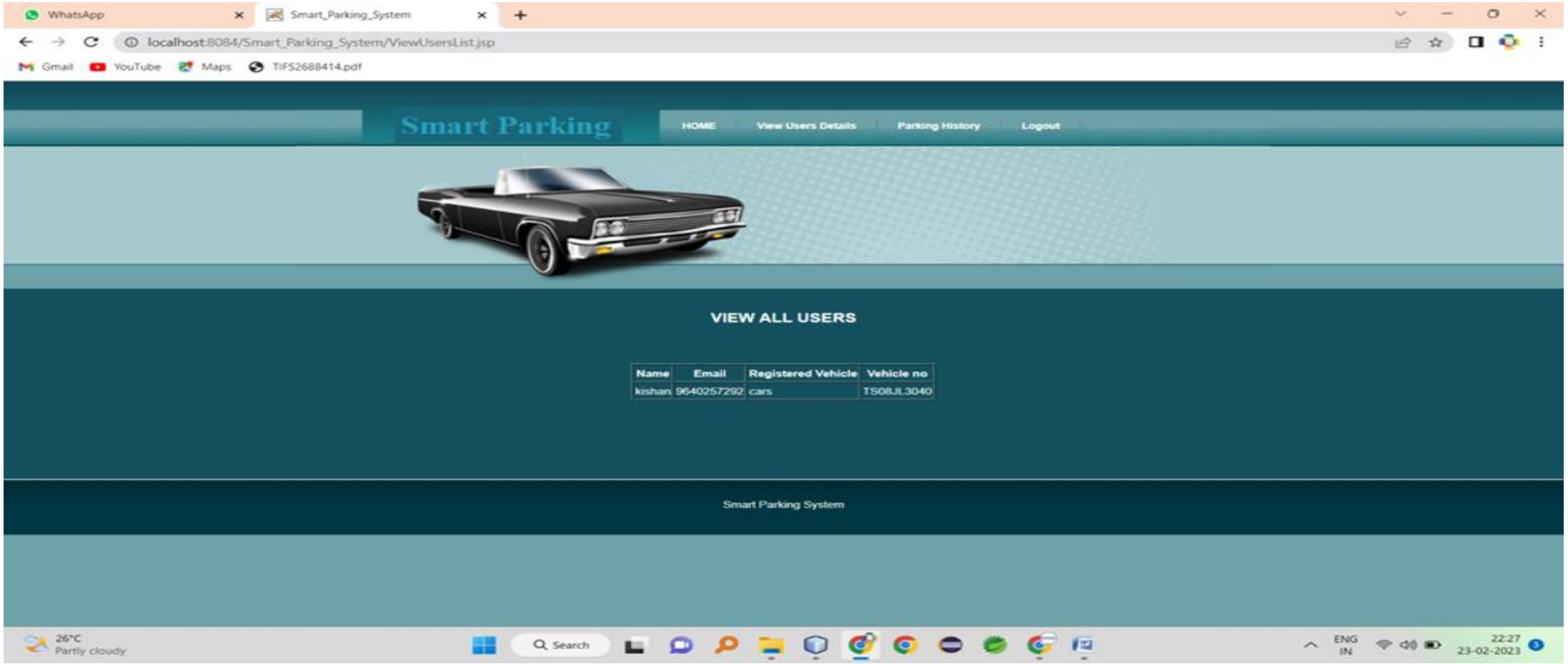


FIG 14.VIWE USER DETAILS

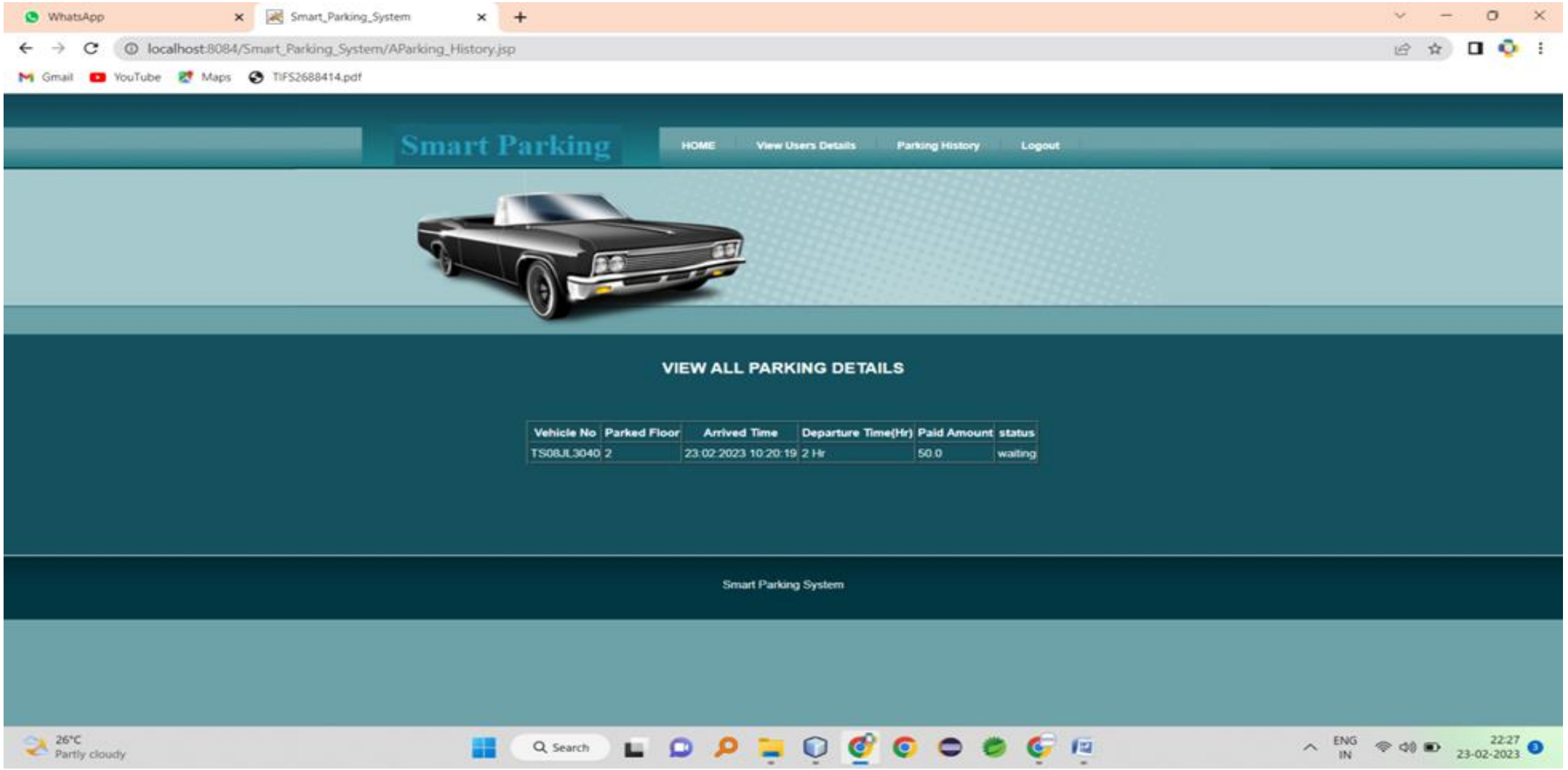
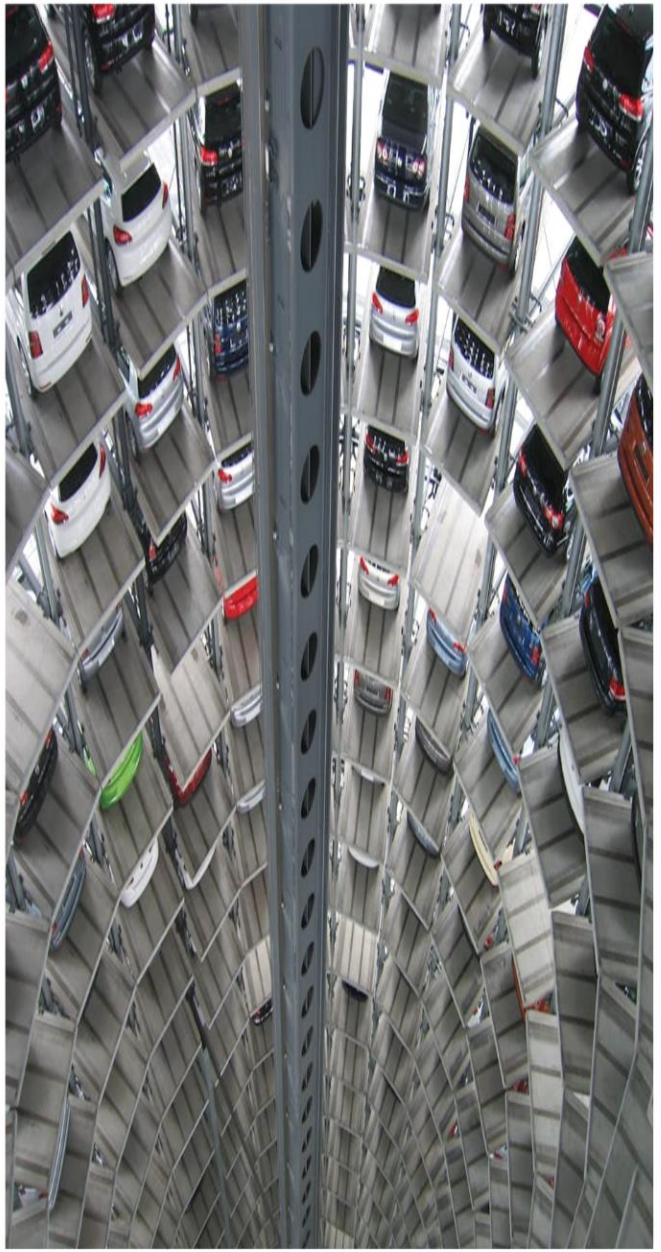


FIG 15.PARKING HISTORY

CONCLUSION

- The Development of Smart Parking System met all of our performance specifications.
- We are able to successfully guide multiple cars to their designated parking spots using the interfaces capabilities.
- We achieved our goal of providing a fully and interactive proof of concept design to show people the power and usefulness of this system.
- The system communicates with the HTML interfaces and MYSQL Server database through a connection on the system.



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- References for the Project Development Were Taken From the following Books and Web Sites.
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- JAVA Security by Scotl oaks
- Head First EJB Sierra Bates
- J2EE Professional by Shadab siddiqui
- JAVA server pages by Larne Pekowsley
- JAVA Server pages by Nick Todd
- HTML
- HTML Black Book by Holzner
- JDBC
- Java Database Programming with JDBC by Patel moss.

THANK YOU