SURVEY ON PARKING SPOT FINDER APPLICATION

Ms. Madhavi M. Mali[*1], Shubham Deshpande[*2], Abhijeet Bangal[*3],

Samarth Kulkarni[*4], Shivam Raut[*5]

[*1,2,3,4,5]Dept Of Information Technology, Pimpri Chinchwad Polytechnic, Pune, Maharashtra, India.

ABSTRACT

It helps drivers quickly locate available parking spaces, reducing the time spent circling around looking for spots, especially in congested areas. Parking can often be a stressful part of driving, particularly in busy urban environments. A parking spot finder app can alleviate this by providing real-time information on available spaces. By guiding drivers directly to open parking spots, it can help reduce the congestion caused by cars driving slowly or stopping in traffic while looking for parking Offers information about parking fees, allowing users to choose the most cost-effective option. It Enables users to pay for parking directly through the app, simplifying the process. It Eliminates the need to drive around aimlessly in search of a parking space, especially in busy urban areas. By guiding drivers to available spots, it reduces congestion caused by vehicles searching for parking.

Keywords: Real Time Updates, User-Friendly Platform, Map Integration, Local Events.

I.   INTRODUCTION

A parking spot finder application is a mobile or web-based tool designed to help drivers quickly and efficiently locate available parking spaces in real-time. With growing urbanization, limited parking availability, and the increasing use of personal vehicles, finding parking can often be time-consuming and stressful. These applications aim to address that problem by integrating GPS technology, real-time data, and user-friendly interfaces to streamline the parking experience.

It helps drivers quickly locate available parking spaces, reducing the time spent circling around looking for spots, especially in congested areas. Parking can often be a stressful part of driving, particularly in busy urban environments. A parking spot finder app can alleviate this by providing real-time information on available spaces.

II.   METHODOLOGY

1. Literature Review:

Parking spot finder applications shows that these tools have evolved significantly due to advancements in technology such as IoT, AI, and machine learning. They offer notable benefits in terms of reducing traffic congestion, lowering environmental impact, and improving user convenience. However, challenges such as data accuracy, infrastructure limitations, and privacy concerns remain. Future development of these applications will likely focus on smarter, more integrated systems that cater to autonomous vehicles and smart cities. Parking spot finder applications are evolving rapidly, driven by technological advancements and urban needs. Ongoing research and development will continue to improve their functionality and user satisfaction, addressing the complexities of urban parking challenges.

2. Design Analysis:

User Interface (UI) Design: Create a user-friendly and visually appealing interface that enables smooth navigation. Focus on accessibility, responsiveness, and easy access to core functions.

Feedback Gathering: Conduct usability testing sessions with potential users to gather feedback and identify areas for improvement.

3. User Testing:

Invite a group of target users to test the app and provide feedback, ensuring the app meets real-world user needs.

4. Policy Analysis:

A policy analysis for a Parking Spot Finder application involves examining legal, regulatory, and organizational policies that impact the development, launch, and management of the app. Key areas for analysis include user

data privacy, data security, accessibility standards, intellectual property, and compliance with regional and international laws on consumer rights.

III. RESULTS AND DISCUSSION

One of the primary goals of the application was to reduce the time drivers spend searching for parking. The results indicate that the app was generally successful in this regard. The parking spot finder app demonstrated substantial value in terms of reducing time spent searching for parking and alleviating stress, in particularly area. The parking spot finder application is generally well-received, offering valuable benefits like time savings, stress reduction, and convenience. The insights gathered from this survey provide valuable direction for future updates and improvements.

IV. CONCLUSION

Parking spot finder system is that it offers a convenient, efficient solution to the ongoing problem of finding available parking spaces. By leveraging real-time data, GPS, and user input, such systems can significantly reduce the time spent searching for parking, lower stress, and contribute to reducing traffic congestion and pollution. With continuous technological advancements, the effectiveness and reach of parking spot finders are likely to grow, making them an integral part of smart city infrastructure in the future.

V. REFERENCES

[1]   ParkMe : ParkMe was initially founded in 2009 as a separate entity by Sam Friedman and Alex Israel.

[2]   SpotHero : SpotHero is developed and managed by SpotHero company in 2011 by Mark Lawrence, Larry Kiss, and Jeremy Smith.

[3]   ParkMobile : ParkMobile was acquired by EasyPark Group in 2021, a European leader in parking solutions.