MINI PROJECT REPORT
ON
“Campus Navi”

By:

[Rusheil Singh Baath, 1032210707, PA-15]

[Prathamesh Bodhankar, 1032211162, PA-51]

[Aman Bendre, 1032210467, PA-04]

[Jatin Garad, 1032210494, PA-05]

Under guidance of

[Prof. Abhishek Chunawale]

MIT-World Peace University (MIT-WPU)

Faculty of Engineering

School of Computer Engineering & Technology

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1. List of Figures

2. Abbreviations

a) AR - Augmented Reality
b) GPS - Global Positioning System
c) AI - Artificial Intelligence
d) SDK - Software Development Kit
e) R&D - Research and Development

3. Abstract

Navigating sprawling college campuses can be a daunting task for students and visitors alike. CampusNavi offers a solution to this challenge with its innovative Augmented Reality (AR) application. By seamlessly integrating AR technology, CampusNavi provides real-time guidance, making navigating campuses effortless and intuitive. With CampusNavi, users can easily find their way around, whether they're locating classrooms, dormitories, or campus facilities. Say goodbye to getting lost on campus and hello to a new era of streamlined navigation with CampusNavi. Join us as we redefine campus navigation and enhance the college experience for all.

Keywords – ARVR, Unity, AR Markers

4. Introduction

Introducing CampusNavi: a groundbreaking Augmented Reality (AR) application poised to revolutionize campus navigation. With the ever-growing complexity of college campuses, finding one's way around can be a daunting task for students and visitors alike. CampusNavi offers a solution by seamlessly integrating AR technology, providing real-time guidance and simplifying navigation through intuitive pathways highlighted via the device's camera. This introduction encapsulates the essence of CampusNavi's mission: to redefine how individuals navigate educational environments, enhancing the overall experience and fostering greater spatial awareness within campus settings.

5. Methodology

The development of CampusNavi commenced with a comprehensive research phase, delving into the challenges inherent in navigating college campuses. Leveraging the potential of Augmented Reality (AR) technology, we meticulously mapped the campus using AR markers, ensuring precision and accuracy in location identification.

By harnessing cutting-edge tracking algorithms, CampusNavi dynamically highlights pathways through the device's camera, facilitating seamless navigation in real-time. With a user-centric approach, CampusNavi's interface was meticulously crafted for intuitive usability, offering visual cues and interactive features to enhance the navigation experience. Rigorous testing and iterative refinement were pivotal in fine-tuning the application, ensuring robustness and reliability across diverse campus environments. Upon launch, CampusNavi revolutionized campus navigation, empowering students, faculty, and visitors alike to effortlessly traverse college campuses, marking a significant milestone in redefining spatial awareness and navigation in educational settings.

6. Results/Output

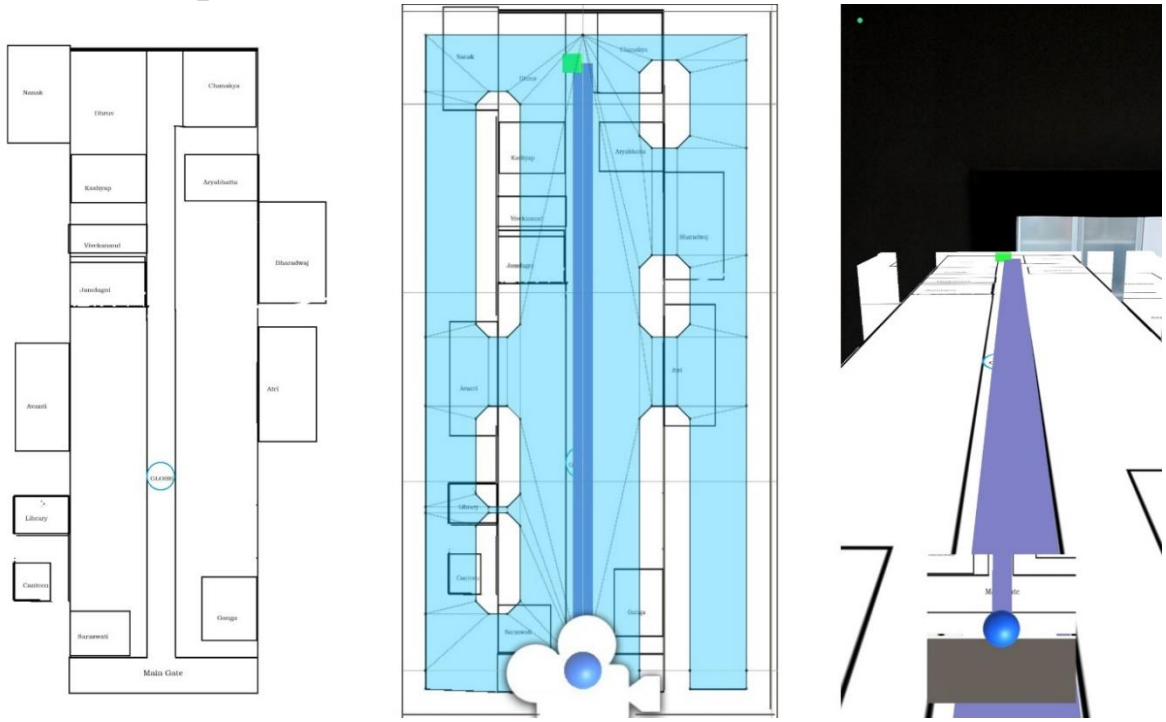

Figure 1. Output of AR Markers in Real-Time App

7. Conclusion

In conclusion, CampusNavi stands as a testament to the power of innovation in addressing real-world challenges. By harnessing the capabilities of Augmented Reality, CampusNavi has successfully transformed the way individuals navigate college campuses, offering an intuitive solution that streamlines the journey from point A to point B. As CampusNavi continues to evolve and adapt, it not only enhances convenience but also fosters a deeper sense of connection and engagement within the campus community.

With its user-friendly interface and cutting-edge technology, CampusNavi paves the way for a more efficient, accessible, and enriching campus experience for students, faculty, and visitors alike.

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