Automated Vehicle Entry and Exit Management for Residency

A PROJECT REPORT

Submitted by,

Mr. Manoj Yadav N **20201CSE0679**
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Under the guidance of,

Ms. Rakheeba Taseen

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING
At

PRESIDENCY UNIVERSITY

BENGALURU

JANUARY 2024

PRESIDENCY UNIVERSITY

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the Project report **"Automated Vehicle Entry and Exit Management for Residency"** being submitted by **Manoj Yadav N, Nandini Desai, Greeshma S Devadiga** bearing roll number(s) **20201CSE0679, 20201CSE0690, 20201CSE0712** in partial fulfilment of requirement for the award of degree of Bachelor of Technology in **Computer Science and Engineering** is a bonafide work carried out under my supervision.

16/1/24

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16/01/24

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DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **Automated Vehicle Entry and Exit Management for Residency** in partial fulfilment for the award of Degree of **Bachelor of Technology** in **Computer Science and Engineering**, is a record of our own investigations carried under the guidance of **Ms. Rakheeba Taseen, Assistant Professor, School of Computer Science and Engineering, Presidency University, Bengaluru.**

We have not submitted the matter presented in this report anywhere for the award of any other Degree.

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ABSTRACT

In the rapidly advancing landscape of urban living, our project takes center stage, presenting an innovative solution to transform vehicular management within residential areas. At its core, the system functions as a smart traffic controller, harnessing advanced license plate detection and robust database management to ensure secure, authorized, and well-documented access. Beyond access control, the project aligns with the vision of smart city living, where technology converges with urban infrastructure for heightened security and the mitigation of congestion. This venture aspires to redefine residential spaces, envisioning intelligent living environments that seamlessly integrate technology into daily life. By epitomizing the synergy between safety, convenience, and technological innovation, the project strives to illustrate how simple yet powerful applications can revolutionize traffic and security management, establishing new standards for urban living. In essence, it paints a vivid picture of a future where technology becomes a catalyst for elevated living standards, offering a transformative urban experience synonymous with safety, convenience, and innovation. This project encapsulates the essence of a smarter, more secure urban lifestyle, emphasizing the potential of intelligent technology to shape the cities of tomorrow.

ACKNOWLEDGEMENT

First of all, we indebted to the **GOD ALMIGHTY** for giving me an opportunity to excel in our efforts to complete this project on time.

We express our sincere thanks to our respected **Dr. Md. Sameeruddin Khan**, Dean, School of Computer Science and Engineering, Presidency University for getting us permission to undergo the project.

We record our heartfelt gratitude to our beloved Associate Deans **Dr. Kalaiarasan C and Dr. Shakkeera L,** School of Computer Science and Engineering, Presidency University and **Dr. Pallavi R**, Head of the Department, School of Computer Science and Engineering, Presidency University for rendering timely help for the successful completion of this project.

We are greatly indebted to our guide **Ms. Rakheeba Taseen, Assistant Professor**, School of Computer Science and Engineering, Presidency University for her inspirational guidance, and valuable suggestions and for providing us a chance to express our technical capabilities in every respect for the completion of the project work.

We would like to convey our gratitude and heartfelt thanks to the University Project-II Coordinators **Dr. Sanjeev P Kaulgud, Dr. Mrutyunjaya MS** and the department Project Coordinators **Mr. Zia Ur Rahaman, Mr. Penial John Whistely**.

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