

Bus Attendance System

Project report submitted

In partial fulfilment of the requirements of the degree of

Master of Computer Application
in

School of Engineering and Technology

by

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**K R MANGALAM UNIVERSITY, GURUGRAM, HARYANA,
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(June 2023)


CERTIFICATE

It is certified that the work contained in the project report titled " Bus Attendance System" by the following students:

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has been carried out under my/our supervision and that this work has not been submitted elsewhere for a degree.


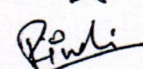

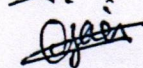

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DECLARATION

We declare that this written submission represents our ideas in our own words and where other's ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all the principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will because for disciplinary action by the Institute and canal so evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. We further declare that if any violation of the intellectual property right or copyright, my supervisor and university should not be held responsible for the same.

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Date : 09th June 2023

Place: K.R. Mangalam University

APPROVAL SHEET

This project report entitled **Bus Attendance System** by Sagar Aggarwal, Rinchi Jain, Pritesh Kumar and Charu Jain is approved for the degree of MCA (Master of Computer Application), School of Engineering and Technology.


9/6/2023

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ACKNOWLEDGEMENT

It gives me immense pleasure to express my deepest sense of gratitude and sincere thanks to my highly respected and esteemed guide **Mr. Shamim Ahmad (Asst. Prof)**, for their valuable guidance, encouragement and help for completing this work. His/Their useful suggestions for this whole work and co-operative behavior are sincerely acknowledged.

I would like to express my sincere thanks to **Mr. Shamim Ahmad (Asst. Prof)**, KRMU for giving me this opportunity to undertake this project. I would also like to thank **Ms. Shweta Bansal (Asso. Prof. , H.O.D SOET)**, for wholehearted support.

I am also grateful to my teachers for their constant support and guidance.

I also wish to express my indebtedness to my parents as well as my family members whose blessings and support always helped me to face the challenges ahead.

At the end I would like to express my sincere thanks to all my friends and others who helped me directly or indirectly during this project work.

Date: 09th June 2023

Place: K.R. Mangalam University

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ABSTRACT

The bus attendance system based on an Android application is a modern and efficient solution for automating attendance management on buses. Utilizing the power of Android devices and cloud-based technologies, the system aims to improve accuracy, efficiency, and data accessibility. The three main modules - Driver, Admin, and Student - cater to the specific needs of each user group. The Driver module allows for easy attendance marking and access to route information, while the Admin module enables route management and report generation. The Student module provides access to attendance records and route information. Integration with Firebase ensures secure storage and synchronization of attendance data in real-time. The system offers benefits such as reduced paperwork, increased accuracy, and real-time insights. With its intuitive user interfaces, the Android application provides a seamless experience. By streamlining the attendance management process, the bus attendance system enhances overall efficiency and promotes data accuracy in bus transportation operations.

Key Words: bus attendance system, Android application, cloud-based technologies, Driver module, Admin module, Student module, Firebase integration, real-time data synchronization.

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REFERENCES

- Firebase Documentation (google.com)
- FontFamily | Android Developers
- (56) Login and Signup using Firebase Authentication in Android Studio | Java - YouTube
- (56) Firebase Tutorial for Android 1 - Getting Started + Add Firebase to Android project - YouTube
- <https://developer.android.com/reference/android/graphics/fonts/FontStyle>