

Security and Increasing Productivity in BYOD Classrooms at School

A PROJECT REPORT

Submitted by,

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Under the guidance of,

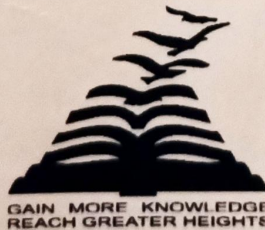
Dr. Sudha Y

in partial fulfillment for the award of the degree of
BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)

At



PRESIDENCY UNIVERSITY

BENGALURU

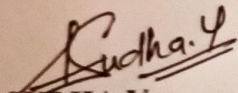
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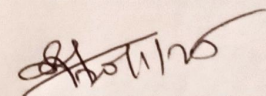
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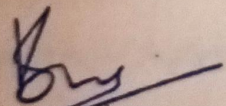
SCHOOL OF COMPUTER SCIENCE ENGINEERING

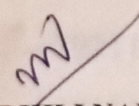
CERTIFICATE

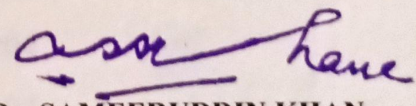
This is to certify that the Project report “Enhancing Classroom Productivity and Security: A BYOD Management Framework for Schools Using Web-Based Filtering and Firewall Integration” being submitted by “THARUN CK, KODURI SAI CHAITANYA, KUDALA CHAKRDHAR REDDY and KOTHAKOTA RAJ KUMAR” bearing roll numbers “20211CCS0089, 20211CCS0004, 20211CCS0193 and 20211CCS0002” in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering is a bonafide work carried out under my supervision.


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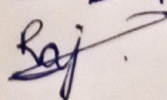
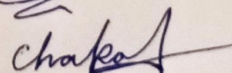
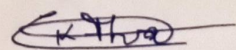
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DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **Security and Increasing Productivity in BYOD Classrooms at School** in partial fulfillment 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 **Dr. Sudha Y**, Assistant Professor(Selection Grade), School of Computer Science and Engineering, Presidency University, Bengaluru.

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ABSTRACT

The proliferation of digital learning tools has redefined the modern classroom, introducing opportunities for engagement alongside challenges in management and security. The BYOD (Bring Your Own Device) Classroom Management System offers a robust, web-based solution designed to empower educators by providing enhanced control over student devices during lessons. This system addresses critical issues like maintaining focus, ensuring academic integrity, and safeguarding against cybersecurity threats in a BYOD environment.

By integrating cutting-edge technologies such as wireless access points, firewalls, and advanced analytics, the platform enables teachers to monitor, restrict, and manage internet access on student-owned devices such as laptops, tablets, and smartphones. The system also includes a comprehensive reporting feature that allows educators to track device usage and make data-driven decisions to enhance learning outcomes.

The solution's scalable architecture ensures seamless integration with existing school infrastructures, supporting personalized access controls and dynamic content filtering. This fosters a secure, distraction-free environment conducive to learning while minimizing the administrative burden on educators. As a holistic tool, the BYOD Classroom Management System bridges the gap between technological freedom and classroom discipline, providing an innovative pathway to transform digital education.

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 dean **Dr. Md. Sameeruddin Khan**, Pro-VC, School of Engineering and Dean, School of Computer Science Engineering & Information Science, Presidency University for getting us permission to undergo the project.

We express our heartfelt gratitude to our beloved Associate Deans **Dr. Shakkeera L and Dr. Mydhili Nair**, School of Computer Science Engineering & Information Science, Presidency University, and Dr. "**Dr. Anandaraj S P**", Head of the Department, School of Computer Science Engineering & Information Science, Presidency University, for rendering timely help in completing this project successfully.

We are greatly indebted to our guide **Dr. Sudha Y** and Reviewer **Ms. Amreen Khanum, Assistant Professor**, School of Computer Science Engineering & Information Science, 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 PIP2001 Capstone Project Coordinators **Dr. Sampath A K, Dr. Abdul Khadar and Mr. Md Zia Ur Rahman**, department Project Coordinators "**Dr. Sharmasth Vali Y**" and Git hub coordinator **Mr. Muthuraj**.

We thank our family and friends for the strong support and inspiration they have provided us in bringing out this project.

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