

ALVARADO-LÓPEZ, Oscar, CORNEJO-TRIGUEROS, Veronica, RAMÍREZ-SANLUISEÑO, Juan and LARA-GONZÁLEZ, Luis

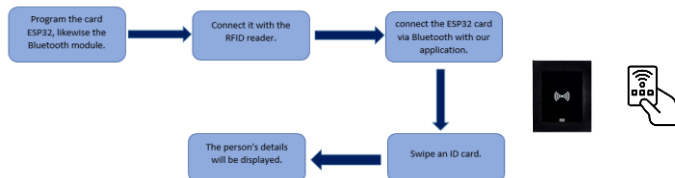
Abstract

Objectives

General
Design an identification system for university entry and exit, using IOT technology.

Specific:
Use IoT technology to link the database with our application
Improve interface design for better user handling

Methodology



Contribution

This project plans to improve the identification system of the universities, the roll calls of the students of the school. In this way we will contribute to the educational field and in the same way our project can contribute in a labor way.

Introduction

With the development of this project, it is planned to improve the system of our university, which is very versatile, its implementation is aimed at any company, micro-enterprise, or even different institutions where a control system of personnel, material or objects is required.

Materials and methods

The necessary material for the development of this project:

- RFID
- ESP 32 card
- Tablet with Android OS above 4
- Proximity card

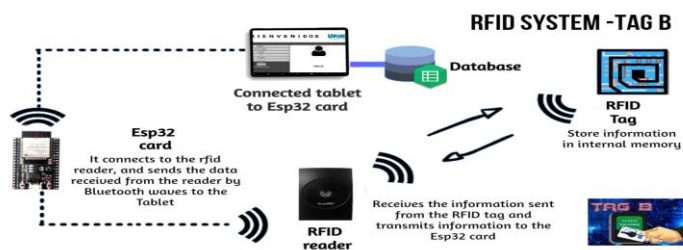


Figure 1

References

- Moreira, M. F. R. (2021b, December 2). Repositorio Digital ESPAM: Sistema automatizado de gestión de aulas y laboratorios de la carrera de Computación de la ESPAM MFL. Calceta: ESPAM MFL. <https://acortar.link/SjvFNr>
- Andrés, R. L. W. (2020, 15 August). Repositorio Universidad de Guayaquil: Análisis técnico y económico de la implementación de un sistema de control de inventarios, mediante un prototipo escalable, usando tecnología RFID y software libre, para la Empresa HIDROELEC. Repositorio Universidad de Guayaquil. <https://acortar.link/gZrJWb>
- Francisco, P. O. (2021, 1 May). Repositorio Universidad de Guayaquil: Prototipo aplicativo para administración, nutrición y control de clientes mediante tecnología RFID en el gimnasio “Bélgica”. Repositorio Universidad de Guayaquil. <https://acortar.link/tQX8Bd>

Contact: LARA-GONZÁLEZ, Luis

E-mail: Llara_ptc@upjr.edu.mx

Project website: <https://www.ecorfan.org>

Results

Currently the interface of our application is elaborated, which is currently working in an optimal way



Figure 2



Figure 3

Conclusions

Thanks to the development of this project, and the implementation of IoT technology, it was possible to create a radiofrequency identification system, with which we can have control of the students at the university when they enter it, as well as their efficiency when taking roll inside the classrooms. In addition, the project has a scope of being able to be implemented in various institutions, companies, micro-enterprises, etc. and therefore provide different solutions in more areas.



Figure 4

Future of research

Research and study on the management of other application development environments and thus have more possibilities with the project. In the same way, more research will be done on IoT technology to create solutions, improve the project and expand the possibilities in the market.

Acknowledgments

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