



وزارة التعليم العالي والبحث العلمي. العراق

جامعة بابل

كلية تكنولوجيا المعلومات

قسم شبكات المعلومات

الدراسة (صباحي)



نظام حضور موظفين يعتمد على الويب

Web-based employees attendance system

مشروع التخرج هو أحد متطلبات الحصول على درجة البكالوريوس في تخصص شبكات المعلومات في تكنولوجيا المعلومات.

A Graduate Project Submitted to the department of Information Networks of the College of Information Technology, University of Babylon, in Partial Fulfillment of the Requirements for the Bachelor's degree in the Information Networks of Information Technology.

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Abstract

Recording attendance for employees is sometimes an obstacle because it takes several minutes a day, and the goal of technology is to make life easier, so we created this project. This project aims to reduce the time it takes to carry out the attendance registration process. Moreover, it provides a security solution to protect places where specific authorized persons are allowed to enter using the authorization or identification card only. Our project aims to develop methods and strategies in government departments in order to facilitate the life of government employees in various state departments because of their role in serving the nation and the citizen.

This project introduces a web-based employee attendance system to register the attendance information of employees electronically. Instead of traditional assigning using handwriting and effort to enter/get permission to do something, they can just use an ID card that contains the information of each person and the permission that s/he's allowed to have by putting the card on the top of the card reader, and the data will be stored on a web-based server such as the ThinkSpeak IoT platform that collects the data from RFID tags. It is easy to use & programmable for any person who holds an ID card to get access in a fast and reliable way, so I used an Arduino Mega2560 with a real-time clock to calculate the time, radio frequency identification to read the card, and an LCD that shows the output whether the person is registered or not. The data will be sent to the ThinkSpeak IoT platform for viewing and further analysis.