

Students Attendance System in Faculty of Engineering at King Abdulaziz University

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Abstract

The project is a system that simplifies the process of taking the student's attendance and it saves effort and time for students and instructors. The attendance is taken by the student's university ID card by scanning it with the barcode scanner device. Nowadays, the attendance is taken by using the traditional ways: calling student's names, students write their names and IDs on a paper, or putting (√) next to student's name. The disadvantages of using these ways are: it takes time from the lecture, student, and instructor. Moreover, it consumes effort from instructors when they transfer the attendance data to the computer manually. The system works by linking the barcode scanner with MS Excel software. First, the student's ID card is scanned using the barcode scanner. Then, the data is saved to an excel sheet automatically. We conclude that using the barcode scanner attendance system is faster and easier. The system can be improved by linking it with the university's central database or prototyping a new software which meets university attendance requirements. To achieve a great benefit, the student should keep their ID cards with them and university should set strict behavior rules for cheating on attendance.

Keywords

Attendance System, Barcode Scanner, Students, ID Card, University System, Improvement.

Biography

Batool Bajkhaif is an undergraduate student of Industrial engineering at King Abdul-Aziz University, Jeddah, Saudi Arabia. She has joined online courses which focus on innovation and management. Also, she has attended Winter Enrichment Program2015 at KAUST- King Abdullah University, Thoul, Saudi Arabia. Moreover, she has contributed in designing two websites with a team: Blood Bank Management System and Diabetes care and awareness. She worked with a team on designing a solar system for boiling water. Also, she worked on a project on 2014 to design a cell phone solar charging station. She is interested in quality, innovation, operation research and management.

Hanan Talal Abdullah is an undergraduate student of Industrial engineering at King Abdul-Aziz University, Jeddah, KSA. She submitted poster about blind guider (smart cane) in 1st Engineering Scientific Forum 2015, King Abdul-Aziz University. Attended Winter Enrichment Program2015 at KAUST- King Abdullah University, Thoul, KSA. She worked on project of finding a portable electric source with a team, and programmed an application-Home Bills calculation (electricity, water, cell phones)- and designed a solar system for boiling water with a team. Her research interests include modeling and simulation, human factor and ergonomics, operation research, optimizing, quality.

Khawlah Alharbi is a student of Industrial Engineering at King Abdul-Aziz University, Jeddah, Saudi Arabia. She has joined many courses in human resource, management, energy science and innovation. She has created with this

team work before a computer program for saving homes energy and designed solar system for boiling water. Her research interests include energy systems, energy consumption, management systems, recycling and mathematic.

Sundus Balkhair, a student of Industrial Engineering at King Abdul-Aziz University, Jeddah, Saudi Arabia. She is interested in community service, leadership and improving management. She has been on leadership program for one year. Moreover, she has been a member of a lot of volunteering organization. She used to work with this team before in creating computer program for saving homes energy and designed solar system for boiling water. Her research interests include human factors, engineering management, leadership and society improvement.