Multi-objective attendance and management information system using computer application in industry strip

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Article Info	ABSTRACT
	Information technology has played a vital factor in a competitive advantage for various business firms recently. Hence, catching up Investment of IT in most of the traditional industries for competitiveness purposes due to the relationship between organizational performance and IT use. In this study, attendance and management information system (AMIS) was presented in the industry field based on multi-modules. Modules are management information, time- scheduling and attendance, and employee self- service module. The system used VB.NET environment for programming perspective as well MS SQL server for database storage. The system is secure and robust recordkeeping, keep employee up to date via self- service access, easy to use (simplified) and powerful time and attendance, active work schedules to make an employee happy and keep workers in the loop, as well, review and exporting different reports for staff manager, supervisor, and employee such as absence, vacation, time-off, employee wages, and etc.

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1. INTRODUCTION

Investment of information technology (IT) has become a significant source of competitive advantage in several firms, and they have not fully achieved benefits of IT use [1-3]. There is a relationship between organizational performanc, and IT use and it has been studied and investigated in general business literature [4-6]. Most of the traditional industries, small and medium scale companies, have changed their manual systems to digital due to it need too much time, human resources effort, and requires a long process [7, 8]. Also, competitiveness would be in risk when companies are not catching up with the change [9, 10]. The employee management application is a powerful tool to relieve the user from the complicated task of handling employee scheduling manually [11]. Whereas employees have considered as the backbone of any corporation and the success of an organization is based on managing of the employee performance; Managing of human resources in a complex environment like the retail industry is a challenging task [12, 13]. Hence information of the employees must be kept safe and secure as well the information should be done securely [14, 15]. So, an effective information system (IS) in an organization should be managed in a trusted medium [13]. Whereas, several issues and problems affected the IS such as information security lacks and could be attractive to hacker attacks via injection of computer viruses [16, 17]. An attacker can access illegal and could destroy or damage the information in the system [18-21]. Therefore, this security issue factor can be considered as a negative impact on the effectiveness of an IS in a company [22]. Attendance records play a significant role in measuring the effectiveness, performance, and objectives