

Design and Implementation of Dormitory Manager Journal Management System in CRP Digital Campus Information Platform

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Keywords: Dormitory Manager Journal; Dormitory Manager Journal Management System; CRP Digital Campus Information Platform.

Abstract. The dormitory management work play a vital role in student management work of colleges, dormitory manager is core member for dormitory management work, dormitory manager journal records every day's detailed dormitory situation and dormitory manager work situation. Currently, informatization management method is best choice to manage dormitory in colleges. This paper demonstrates the design of dormitory manager journal management system based on CRP digital campus information platform (CRP), it is consists of three parts: electronic form design, the system function design and interconnection/interworking work flow design between dormitory manager journal management system and other information systems. Dormitory management data of dormitory manager journal management system generated from dormitory manager input and system running is valuable data for college's management.

CRP Digital Campus Information Platform Introduction

“CRP” means “Campus Resource Planning”, the idea is proposed based on ERP (Enterprise Resource Planning) management system [1]. Teaching as core is a characteristic of CRP digital campus information platform. By means of identifying, analyzing and planning campus internal and external information resources, a variety of campus information resources are integrated, analyzed and planned, it will be to achieve the resources of “no boundary”, the best combination of mutual integration and the ideal management effect, so as to improve the school-running level and the quality of talent cultivation[2]. CRP platform uses the role business activities as the core lines to integrate all resources together, by planning the enrollment, teaching, examination, student management, teacher management, employment, scientific research, finance, logistics and other resources, to achieve the best combination of resources and the best effect for teaching and management [3].

Dormitory Manager Journal

Contemporary college students is often post-90s in China who basically is the only child in the family and is seen as a pearl in the palm, this background determines their characters are often capricious, responsibility consciousness is weak, collective concept is not strong, ability of handling problems is poor etc. weakness. They were far away from home and came to the college, sometimes facing life or learning problems will be at a loss what to do, so they need comfort and help. General speaking, there is no fixed classroom for every class in colleges, therefore, dormitory is become a relatively fixed learning, life and idea exchange place. Student dormitory management is related to the students' personal and property safety, related to the students' state of mind and interpersonal communication, related to the colleges normal teaching and life order. From the viewpoint of maintaining the overall stability of the colleges and promoting the sustainable scientific development of the colleges, colleges should treat the work of the student dormitory management as an important part of education and college management [4]. Using the informatization management method to strengthen the work of the college student's dormitory management has been imperative.

The information reflected by dormitory manager journal is some key index for dormitory management. Normally, dormitory manager journal involves overall dormitory hygiene situation, dormitory equipment situation, dormitory security check situation and other dormitory management situations. These situations exactly reflect dormitory manager work situation and dormitory management situation; Student management work will be improved from analysis and usage of these data.

Currently, informatization management way can't be adopted by most colleges to manage dormitory manager journal. After one day's work is completed, each dormitory manager will fill out paper dormitory manager journal form and submit for statistics. This traditional paper filling and statistical way is very cumbersome, relatively large workload and low efficiency [3], even worse, many very valuable management data reflected by dormitory manager journal can't be further analyzed and utilized effectively, such as special problems / emergent issues can't timely be delivered automatically to the responsible person, furthermore, data sharing and fusion between dormitory manager journal management system and other information systems can't be realized by this manual basis.

With the rapid development of information technology, a good choice is to use informatization management method to deal with dormitory manager journal, dormitory manager journal management system can be developed by Internet programming technology and used via Internet; Firstly, it is necessary and urgent to liberate human resources and improve work efficiency from these simple and cumbersome activities [5]. Secondly, dormitory manager journal management system can do interconnection and interworking with other information for resource configuration , for example, dormitory manager journal management system can read student absent list in class from the teachers' journal management system and student name list who didn't swipe card whole days from one card solution management system, in addition, student management system can read special problems or emergent issues in dormitory management from dormitory manager journal management system.

Design and Implementation of Dormitory Manager Journal Management System Based on CRP

Dormitory Manager Journal

Overall Hygiene	Sundries stacking situation	<input checked="" type="radio"/> No <input type="radio"/> Yes	Whether to report : <input checked="" type="radio"/> N <input type="radio"/> Y
	Other hygiene situation	<input checked="" type="radio"/> No <input type="radio"/> Yes	
Equipment	Corridor, Stairs, Enclosure	<input checked="" type="radio"/> No <input type="radio"/> Yes	Whether to report : <input checked="" type="radio"/> N <input type="radio"/> Y
	Emergency lamp	<input checked="" type="radio"/> No <input type="radio"/> Yes	
	Electric box	<input checked="" type="radio"/> No <input type="radio"/> Yes	
Safety	Fire hydrant	<input checked="" type="radio"/> No <input type="radio"/> Yes	Whether to report : <input checked="" type="radio"/> N <input type="radio"/> Y
	Warning signs	<input checked="" type="radio"/> No <input type="radio"/> Yes	
Patrol	Patrol record		
	Special problems or emergent issues		
	Send the report	<input checked="" type="radio"/> No <input type="radio"/> Yes	

[Submit](#)

Fig.1 Electronic Form Design for Dormitory Manager Journal

Electronic form design. Fig.1 is electronic form design for dormitory manager journal; it includes overall dormitory hygiene situation (sundries stacking situation, other hygiene situation etc.), dormitory equipment situation (corridor, stairs, enclosure, electric box etc.), dormitory safety

situation (fire hydrant, warning signs etc.), dormitory patrol situation (patrol record, special problems or emergent issues etc.) and other dormitory management contents.

The system function design. Form fill-in function in front desk: every dormitory manager need to fill-in front desk electronic form like Fig.1 via Internet for data collection after one day's work is completed.

Background management function: Perform basic and advanced settings for the system. The detailed functions are listed as follows:

Basic settings function: Set the fill-in number (Set how many workloads dormitory manager need to complete each month, such as dormitory manager should complete security check 12 times each month); Set monthly guidelines (Set the monthly guidelines which is key work and matters need attention for dormitory manager this month); Set the auditor and handling recipient (Set the auditor for submitted dormitory manager journal and handling recipient for special problems / emergent issues).

Advanced settings function: Set system parameters (Set the timeout period for dormitory manager journal); Permission setting (Set fill-in permission for every dormitory manager, set audit and system management permission to the person who in charge of dormitory management).

Data analysis and application function: analyze and apply data collected from every dormitory manager journal. The detailed functions are listed as follows:

Data summary function: it includes all the dormitory manager journal details statistics function, already commented dormitory manager journals summary and case / experience summary.

Public inquiry: all collected dormitory manager journals are summarized and sorted into many lists for the public inquiry, the lists include overall dormitory hygiene situation list, dormitory equipment situation list, dormitory security situation list, dormitory patrol situation list etc. dormitory management content summary list.

Interconnection / Interworking Work Flow Design between Dormitory Manager Journal Management System and Other information Systems. According to CRP advantage and characteristics of the resources of "no boundary", interconnection / interworking between dormitory journal management system and other information systems is easy to achieve. Dormitory manager journal management system can read the data from other information systems, and the data collect from dormitory manager journal management system can be pushed to other information systems to do further processing and utilization. As shown in Fig.2, on the one side, dormitory manager journal management system can read class absent student list from teachers' journal management system, the student name and corresponding time list of student leaving and returning campus and student name list who didn't swipe card whole days from one card solution system, dormitory manager should further focus on these students, for example, they need to check whether these student return to dormitory at regular time; on the other side, special problems and emergent issues of dormitory manager journal will be sent to the responsible recipient of student management system who in charge of these problems and issues, the recipient will follow-up to handle these issues[2].

Conclusions

Dormitory manager journal records everyday's detailed dormitory situation and dormitory manager work situation, the data collected from journal is very valuable data for student management work . Informatization management method is best choice to manage dormitory in colleges, the construction of dormitory manager journal management system based on digital campus information platform is good application for colleges. On the one hand, work efficiency can be improved by using dormitory manager journal management system, on the other hand, data resources sharing and configuration can be achieved between dormitory manager management system and other information system of digital campus information system. Students' fine management could be improved from the analysis and use of these resources sharing and configuration data.

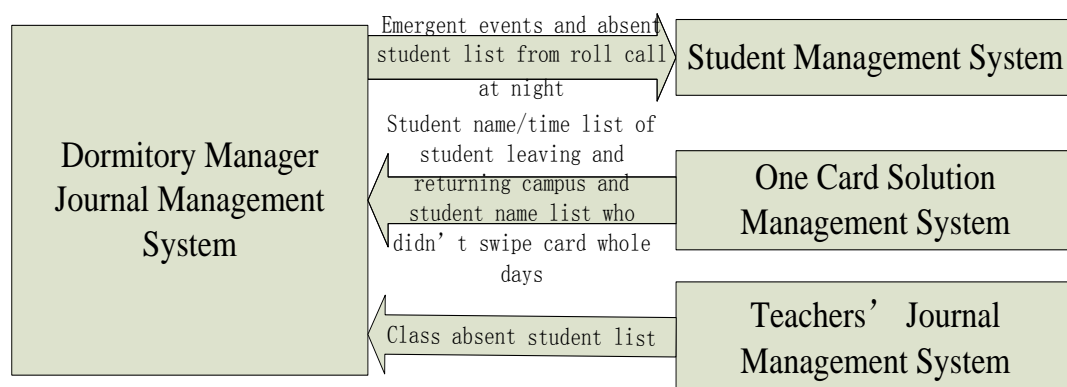


Fig.4 Interconnection & Interworking Work Flow between Dormitory Manager Journal Management System and Other Systems

Acknowledgements

This work was financially supported by the 2014 Social Science Fund Project of Hainan Province (HNSK14-19).

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