

KIOSK ERP MANAGEMENT SYSTEM

**Prof. Charushila Patil¹, Aditya Kher²,
Akanksha Khandekar³, Fahad Kazi⁴**

¹*H.O.D. Dept. of Computer Engg, Guru Gobind Singh Polytechnic, Nashik (India)*

^{2,3,4}*Guru Gobind Singh Polytechnic, Nashik (India)*

ABSTRACT

Kiosk ERP is a Kiosk system which can be used in any organization. Kiosk is user interactive software which helps user to perform his/her daily transactions by easy and effective manner. Like Card swapping, Banks transactions, Railway/Airport reservations ., We can also implement such highly interactive system in educational scenario for smoothly handling daily activities of faculties and students like leave sanctioning, attendance marking etc. this paper has introduced such system in academic purpose,so student as they get direct interaction with the ERP system of their college. In this system all the parameter such as Attendance, Leave, Marks, Notification can be viewed. Using this Kiosk ERP system student and other users can be updated with all the notification.

Keywords: ERP, KIOSK, Attendance Management, Leave Application

I. INTRODUCTION

An interactive kiosk is a computer terminal featuring specialized hardware and software by using this we can access the information related with communication, commerce, entertainment, and education. Early interactive kiosks sometimes resembled telephone booths, but they were equipped with retail, food service and hospitality to improve customer service. Interactive kiosks are typically placed in high foot traffic settings such as shops, hotel railways, airports. Thus they are where more human interaction is required. Using the feature of Kiosk technology, user perform a wide range of functions, evolving into self-service kiosks. For example, kiosks may enable users to order from a shop's catalogue when items are not in stock, check out a library book, look up information about products, issue a hotel key card, enter a public utility bill account number in order to perform an online transaction, or collect cash in exchange for merchandise. Customized components such as coin hoppers, bill acceptors, card readers and thermal printers enable kiosks to meet the owner's specialized needs. Today's kiosks bring together the classic vending machine with high-tech

communications and complex robotic and mechanical internals. Such interactive kiosks can include self-checkout lanes, ticketing, information and way finding, and vending. Electronic kiosks have become a larger part of the retail landscape as users embrace technology in their daily lives.

.EXISTING SYSTEM

The telekiosk can be considered the technical successor to the telephone booth, a publicly accessible set of devices that are used for communication. These can include email, fax, SMS, as well as standard telephone service. Telekiosk is rarely seen or heard anymore.

Telekiosks gradually appeared around the United Kingdom in the first years of the 21st century. Some are situated in shopping centers and transport terminals, with the intention of providing detailed local information. Others are in public places, including motorway service areas and airports.

Internet kiosks have been the subject of hacker activity. Hackers will download spyware and catch user activity via keystroke logging. Other hackers have installed hardware keystroke logging devices that capture user activity.

1. Mumbai Metro Railways

In India Mumbai Metro Railways is using KIOSK for passenger's comfort. By this use of KIOSK passenger can book their tickets on their own. The entire passengers are allotted a Rail pass which can be refilled and used to do transact in the booking of the tickets. Through this system there is much more hassle free environment on the railway booking counter and station also. Now passengers are not bound to buy the tickets from the counter and wait in the queue for it.

2. Chhatrapati Shivaji International Airport

KIOSK is used in T2 as a check in portal. Passenger who want to do self check in to the airline they can do it by themselves. Due to this facility it is very easy task to check in to the airport and to proceed further for immigration process and other customs things. Many international passengers have appreciated this system on Mumbai airport.

3. China Telecom Recharge Facility

In china Chinese telecom had installed many KIOSK recharge system on roads. Due to this any user can recharge its mobile by itself. No interference of Middle Man for recharge. Every user has a unique prepaid card through which he can make a payment. This system is appreciated all over the world for its easy operating interface.

II. PROPOSED SYSTEM

The kiosk will consist of all the information regarding the ERP system of the colleges. Through kiosk we can access all the information of the students, staff & other information of the institute. Kiosk will make our work easier for retrieving the information.

Kiosk will also consist of leave application management system, notices display system, attendance system , marks display etc.

In ERP Kiosk it will have a personal username and password for each student & staff. Through this account anyone can see their information on kiosk

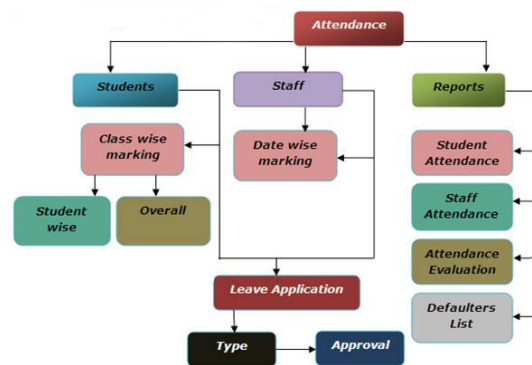


Fig. 1.1 Structure of Kiosk

Kiosk ERP system management includes five Main Model and every model is built with integrated security and easy to use technology.

The Main Six Models are:

- Leave
- Attendance
- Marks
- My Info
- Notification

All Models are visible to all the users and are maintained by the administrator

A. Leave

Applying for the leave would be an easy task for the student as they get integrated system in Kiosk for applying leave. In Kiosk leave application we have designed all the possible combination for leave application. Users just have to enter their ERP No and all the information related to that user will be retrieved. Leave model takes all the data from the desired database and student or user can have an interaction with kiosk. After retrieving all the information from the database and, after clicking submit button the message will be sent to their parent and there guardian. Message will contain the leave of reason of the ward. And the parent of that ward will be informed about their ward's leave

B . Attendance

This module is integrated because any student can see his/her attendance anytime anywhere. In attendance module admin can enter the working days in a semester and the days that student worked in the institute. After entering this information attendance percentage can be calculated. This attendance can be tentative or permanent according to patter what admin chose.

C. My Info

This is the very basic module every software or website. In My Info page all the information regarding admin and the user can be seen. In this module user can change his information and his credentials.

D. Notification

In every institute notices are circulated on paper or in oral form. But if few fellows are not available while the notice had been announced they are not been informed of that particular notice. To overcome this drawback in kiosk ERP Notification output or Notification module is added. Here everyone can see all the notices posted by the admin.

III. REQUIREMENT

Windows 7/8/10 32bit

Internet Explorer / Chrome/Netscape

Intel/AmdProcessor 32/64 bit

2GB Ram

160 HDD

Internet Connectivity

Kiosk Display

IV. SCREENSHOTS

Attendance	
Enter no of Working Days	<input type="text" value="180"/>
Enter no of Non Working Days	<input type="text" value="110"/>
Total Attendance is	
	<input type="button" value="Submit Info"/>
<input type="button" value="Back to Control Panel"/>	

Connected KIOSKERP	
Connected successfully	
ERPNO	<input type="text" value="2047"/>
NAME	Aditya M Kher
CONTACT	8275666827
PARENT CONTACT	8551036002
REASON OF LEAVE	<input type="text" value="SELECT OPTION"/>
<input type="button" value="RESET"/>	
<input type="button" value="SUBMIT"/>	
<input type="button" value="Back to Control Panel"/>	

SERIAL NO	NAME	ROLLNO	ADDRESS	STUDENT CONTACT	PARENT CONTACT	ERP NO
3	Aditya M Kher	37	Nashik road	8275666827	8551036002	2047

Back to Control Panel

Notification Output

Eres

Come 2mrw

V. ADVANTAGES& DISADVANTAGES

A. Advantages:

1. Ease of access to the system

KIOSK basically is a touch screen device so anyone can use it. It is user friendly machine. Its GUI is very easy and basic.

2. Secure to use

As our software contains a login id for each user it is very secure to use. KIOSK also provide some internal security features for the software.

3. Touch screen interface

KIOSK is a machine which works on touch screen technology. The KIOSK may contain LED or LCD types of display for users.

4. Easy availability in market

KIOSK can be easily purchased from the market as its cost is not much any institute or company can afford it easily.

5.Large Screen For navigation: As it provide largescreen with comfortableposture, student can easily interact with various menus of this system..

6.Replace Human Assistance: As Kiosk Provide Self to students, and staff, student can easily apply form his leaves or various forms and submit in kiosk system so that admin can check out the requests.

Apart from this following are also some crucial advantages of Kiosk in educational sectors

- Connect with Students
- Lower Wait Times
- Increase Student Satisfaction
- Manage a Queue
- Provide Student Awareness
- Communicate campus and community events
- Educate Visitors with Event Sign-Ups

B. . Disadvantages:

1. Internet Connectivity 24/7

As KIOSK is online hardware system which needs 24/7 internet connection. If it fails KIOSK is nearly unusable for the users.

2. Updating data constantly

KIOSK database and firmware should be continuously updated by an administrator so it 3.gives us error free environment.

Administrator is required to maintain the database

4. The database which is loaded in KIOSK for software should also be maintained by the administrator as database should be robust and updated till date

5. Installation and authorization cost: Establishing setup of kiosk hardware in college premises requires cost. as well as maintenance at regular interface also have to bear some amount .

VI. CONCLUSION

As on so we conclude that using Kiosk in daily life is much easier as we can get all the information on a finger touch at a secure place. Using Kiosk is beneficiary for all the employees as well as to the organization because the informative burden on the organization is reduced and employees become independent for their information.

Kiosk is a platform which is touch screen, secure, portable and can be used anywhere in the world

REFERENCES

[1] ParimalaInamdar, “Hole-In-The-Wall’ Computer Kiosks Foster Mathematics Achievement - A comparative study ”

[2] T.P. Rama Rao, “Dairy Information Services Kiosk and Dairy Portal”

[3]<http://advancedkiosks.com/industries/education-student-kiosk/Wikipedia>

[4]<https://www.kioskmarketplace.com/blogs/top-10-ways-to-utilize-educational-kiosks-on-campus/>

[5]<https://www.kioskmarketplace.com/topics/education-schools/>