

IMPLEMENTATION OF E-NOTICE BOARD

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Abstract

Android based College Notification system to provide college related notices directly on your android device. By using this, Staff meeting related notices and student get experiment, tutorial online. The main aim is to replace the traditional notice board with E-notice board. So there is no need to maintain numbers of account for sharing information, exchange of notes and all college related news, then it will be accessible anywhere anytime just on a single click on your android device. Just install “E-Notice Board App” on your android device and you can access all notices of your college. We have developing for staff add notes, experiments dates, submission and for students upload and download tutorials, experiments, question paper and notes in an easy and efficient manner. This project includes major activity entities: add notices, add staff record, and add student record which is handled by Admin. The Admin can add, delete, and update them simultaneously on the online system. These can then be viewed by the students.

Introduction

The important goal for E-Notice Board to help the students and staffs to get the updates through a mobile. A **Notice board** is a surface intended for the posting of public messages, for example, to advertise items wanted or for sale, announce events, or provide information. Bulletin boards are often made of a material such as cork to facilitate addition and removal of messages, as well as a writingsurface such as blackboard or whiteboard. A bulletin board which combines a pin board (corkboard) and writing surface is known as a combination bulletin board. Bulletin boards can also be entirely in the digital domain and placed on computer networks so people can leave and erase messages for other people to read and see, as in a notice board systems.

Notice boards are particularly prevalent at universities. They are used by many sports groups and extracurricular groups and anything from local shops to official notices. Dormitory corridors, well-trafficked hallways, lobbies, and freestanding kiosks often have cork boards attached to facilitate the posting of notices. At some universities, lampposts, bollards, trees, and walls often become impromptu posting sites in areas where official boards are sparse in number.



Fig 1:college Notice Board

In the proposed, E-Notice Board System can play major role in the today's college and Student management system. An online notice board is a place where people can leave any types of messages and notifications, for example, to advertise things, announce events or provide any information. Notice board online it can be placed on digital devices such as computers, tablets, mobile phones etc.

This online notice board project is very helpful for all type of users like existing users and new users. So admin can leave and erase notification for other people to read and see.

The main aim of this free online notice board project is to make information dissemination much easier in a paperless community as the world tends to interact with the online notice board facility as a project. Online notice board admin can send the notification to the particular students regarding fee payments, results, any new activity happening in college campus or college fest participation, library dues, hostel room payments, any workshop registrations, warnings and reminders etc. For this work online notice board project is to make all work much easier and understandable to all.

This online notice board work generally intends to act as a support system for all users. By the help of free online notice board users can access the notifications and articles quickly not only in the particular premises, also wherever and whenever they need to know.

Online notice board usability is fully capable of passing relevant notices and announcements, and keeping the users updated from time to time. The students are kept updated each time with the online notice board for college is uploaded based on their preferences with respect to the departments and categories through a notice board online.

Online notice board is one of the applications to improve the usage of notice board of the college by making it available online. This web application involves almost all the features of online notice board. In the online notice board project all the updates like, add, delete, view are done by admin, so that user will get the updated current information through notice board online.

Literature survey

Digital notice board implementation via power line communication

Authors: R. Ranihemamalini, S. Ashwitha, M. Aarthy

PLC (Power line communication) is a technology that provides high speed communication of voice and data and it is a very cost effective method. It has been successfully implemented in many applications in real time. In this project one such application is used to digitize an institution by replacing circulars or notice boards by digital notice boards. Frequent updating is easy with a centralized system. Data's are sent through existing power line to a particular power line node or various nodes. The information is obtained from server and it is displayed using LCD at the reception. When a message is received it is intimated to students using a voice board. A personal Computer, power line modem, voice board and an LCD display are used to design digital notice board via power line.

Electronic **notice board** with multiple output display

Authors: Kruthika Simha, Shreya, Chethan Kumar

The paper aims at iterating the results of a project focused on developing a wireless electronic notice board, which offers the flexibility to control information display within a given range on multiple displays. The notice board will display information being transmitted to it from a central controlling unit, using a serial communication protocol.

Development of simple and low cost Android based wireless notice board

Authors: NeerajKhera, Divya Shukla, ShambhaviAwasthi

In this paper, the development of simple and low cost Android based wireless notice board is presented. The proposed system uses either Bluetooth or Wi-Fi based wireless serial data communication. For this purpose Android based application programs for Bluetooth and Wi-Fi communication between Android based personal digital assistant devices and remote wireless display board are used. At receiver end, a low cost microcontroller board (Arduino Uno) is programmed to receive and display messages in any of the above communication mode. Using the developed system, two different applications for displaying messages on a remote digital notice board and wireless person calling has been implemented. The developed system will therefore aims in wirelessly sharing the information with intended users and also helps in saving the time and the cost for paper and printing hardware.

.System analysis

Existing system: In existing they maintain a normal notice board. Sometimes it may have some mistake. It is difficult to maintain.

Disadvantage:

- It is not efficient.
- Some student may miss to see that noticeboard.
- It will take more time.

Proposed system:

- We proposed online notice board.
- This web application involves almost all the features of online notice board.
- In the online notice board project all the updates like, add, delete, view are done by admin, so that user will get the updated current information through notice board online.

Advantage:

- It is easy to maintain.
- It is easily to understand.
- It is less work and less time.
- The students are kept updated each time with the online notice board for college is uploaded based on their preferences with respect to the departments and categories through a notice board online.

Hardware requirements

- System : Pentium IV 2.4 GHz.
- Hard Disk : 40 GB.
- Monitor : 15 VGA Colour.
- Mouse : Logitech.
- Ram : 512 Mb.

Software requirement

- Operating system :Windows XP/7.
- Coding Language : JAVA/J2EE
- IDE : NetBeans 7.4
- Database : MYSQL

System architecture

Architecture Diagram:

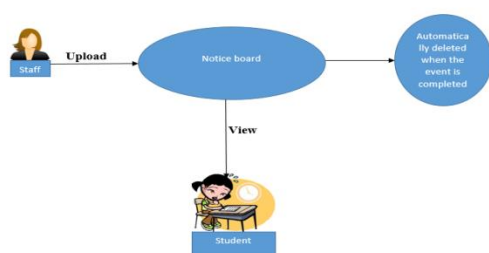


Fig 2. Architecture Diagram of E-notice board

List of Modules:

- Admin module
- User module
- Verify module
- Post module

Modules description:

Admin modules:

Control all the members such as staff, student. Admin access all the details.

User modules:

In this user modules have two section one is staff modules and another section is student modules.

In staff post the event and admin post the notice. In student modules after login they will identifying the types of event.

Verify module:

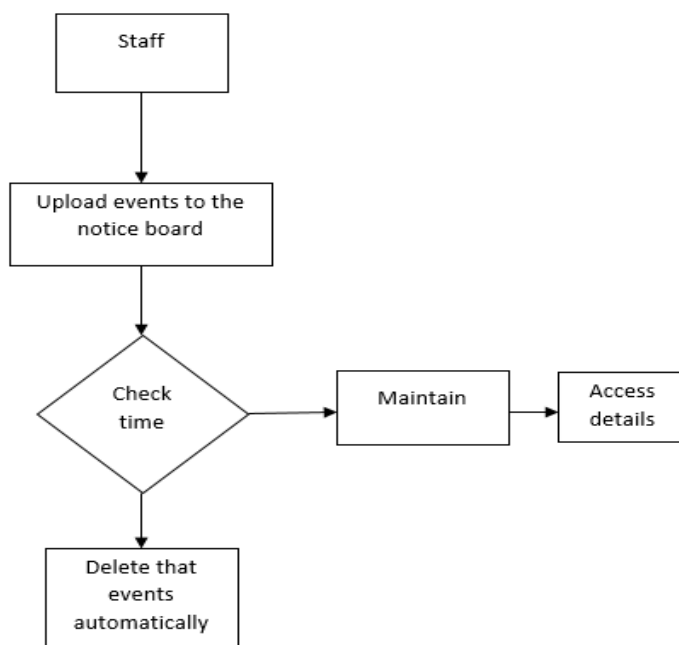
In this module is verify the post of time. When the event is completed it will automatically remove.

Post module:

In this module is fix the post such as the event or any other placement etc.,

Module diagrams:**Data flow diagram:**

1. The DFD is also called as bubble chart. It is a simple graphical formalism that can be used to represent a system in terms of input data to the system, various processing carried out on this data, and the output data is generated by this system.
2. The data flow diagram (DFD) is one of the most important modeling tools. It is used to model the system components. These components are the system process, the data used by the process, an external entity that interacts with the system and the information flows in the system.
3. DFD shows how the information moves through the system and how it is modified by a series of transformations. It is a graphical technique that depicts information flow and the transformations that are applied as data moves from input to output.
4. DFD is also known as bubble chart. A DFD may be used to represent a system at any level of abstraction. DFD may be partitioned into levels that represent increasing information flow and functional detail.

**Fig 3.Data flow diagram****Uml diagrams**

UML stands for Unified Modeling Language. UML is a standardized general-purpose modeling language in the field of object-oriented software engineering. The standard is managed, and was created by, the Object Management Group.

The goal is for UML to become a common language for creating models of object oriented computer software. In its current form UML is comprised of two major components: a Meta-model and a notation. In the future, some form of method or process may also be added to; or associated with, UML.

The Unified Modeling Language is a standard language for specifying, Visualization, Constructing and documenting the artifacts of software system, as well as for business modeling and other non-software systems.

The UML represents a collection of best engineering practices that have proven successful in the modeling of large and complex systems.

The UML is a very important part of developing objects oriented software and the software development process. The UML uses mostly graphical notations to express the design of software projects.

Goals:

The Primary goals in the design of the UML are as follows:

1. Provide users a ready-to-use, expressive visual modeling Language so that they can develop and exchange meaningful models.
2. Provide extendibility and specialization mechanisms to extend the core concepts.
3. Be independent of particular programming languages and development process.
4. Provide a formal basis for understanding the modeling language.
5. Encourage the growth of OO tools market.
6. Support higher level development concepts such as collaborations, frameworks, patterns and components.
7. Integrate best practices.

Use case diagram:

A use case diagram in the Unified Modeling Language (UML) is a type of behavioral diagram defined by and created from a Use-case analysis. Its purpose is to present a graphical overview of the functionality provided by a system in terms of actors, their goals (represented as use cases), and any dependencies between those use cases. The main purpose of a use case diagram is to show what system functions are performed for which actor. Roles of the actors in the system can be depicted.

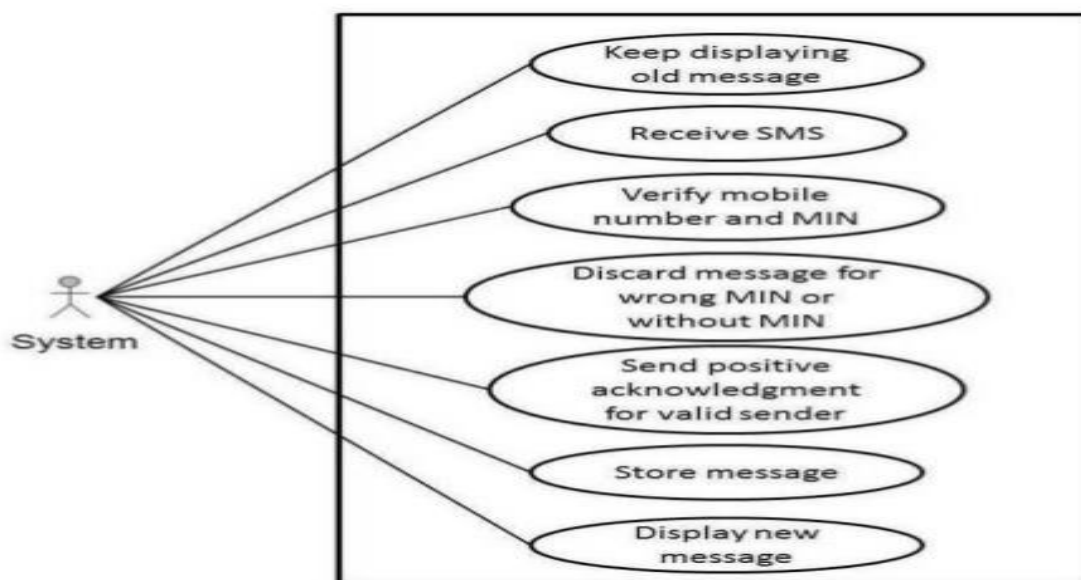


Fig 4.use case diagram

Sequence diagram

This sequence diagram contains three objects that are Server, TPA, Client and. Server will perform operations like it maintains client details & session information stores details & files and generate graphs. Client will perform operations like registration, login, upload files, download files, verify documents, add blocks, and

delete blocks. TPA will perform operations like take file size, divide file into blocks, maintain metadata information, send response and verification message. And this diagram shows the sequence of actions performed between these objects.

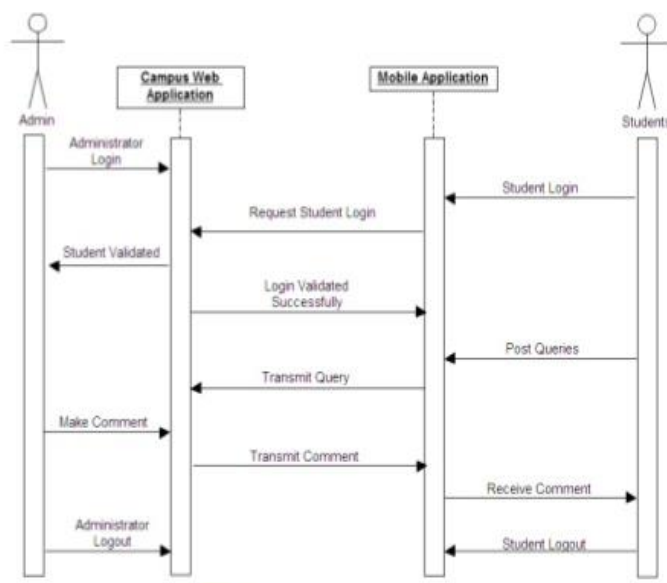


Fig 5:Sequence Diagram

System design

Input design

The input design is the link between the information system and the user. It comprises the developing specification and procedures for data preparation and those steps are necessary to put transaction data in to a usable form for processing can be achieved by inspecting the computer to read data from a written or printed document or it can occur by having people keying the data directly into the system. The design of input focuses on controlling the amount of input required, controlling the errors, avoiding delay, avoiding extra steps and keeping the process simple. The input is designed in such a way so that it provides security and ease of use with retaining the privacy. Input Design considered the following things:

- What data should be given as input?
- How the data should be arranged or coded?
- The dialog to guide the operating personnel in providing input.
- Methods for preparing input validations and steps to follow when error occur.

Objectives

1. Input Design is the process of converting a user-oriented description of the input into a computer-based system. This design is important to avoid errors in the data input process and show the correct direction to the management for getting correct information from the computerized system.

2.It is achieved by creating user-friendly screens for the data entry to handle large volume of data. The goal of designing input is to make data entry easier and to be free from errors. The data entry screen is designed in such a way that all the data manipulates can be performed. It also provides record viewing facilities.

3. When the data is entered it will check for its validity. Data can be entered with the help of screens. Appropriate messages are provided as when needed so that the user will not be in maize of instant. Thus the objective of input design is to create an input layout that is easy to follow

Output design

A quality output is one, which meets the requirements of the end user and presents the information clearly. In any system results of processing are communicated to the users and to other system through outputs. In output design it is determined how the information is to be displaced for immediate need and also the hard copy output. It is the most important and direct source information to the user. Efficient and intelligent output design improves the system's relationship to help user decision-making.

1. Designing computer output should proceed in an organized, well thought out manner; the right output must be developed while ensuring that each output element is designed so that people will find the system can use easily and effectively. When analysis design computer output, they should Identify the specific output that is needed to meet the requirements.

2. Select methods for presenting information.

3. Create document, report, or other formats that contain information produced by the system.

The output form of an information system should accomplish one or more of the following objectives.

- ❖ Convey information about past activities, current status or projections of the
- ❖ Future.
- ❖ Signal important events, opportunities, problems, or warnings.
- ❖ Trigger an action.
- ❖ Confirm an action.

Conclusion

Online notice board is one of the applications to improve the usage of notice board of the college by making it available online. This web application involves almost all the features of online notice board. In the online notice board project all the updates like, add, delete, view are done by admin, so that user will get the updated current information through notice board online. It is efficient and easy to handle.

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