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Digital Diary for Club and Chapter Reminders

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ABSTRACT -

In today's world, Education in schools and colleges has reached its new standards with the continuous development in science and technology. Many Educational Institutions started to focus more on extra-curricular activities than academics. Lot of Students all over the world are active participants of many clubs and chapters. Digitalization of data generation and information sharing made their communication easier and much faster. They stay connected and updated through groups in social medias. But, these medias are filled with unwanted messages and the important messages get lost among them. It is extremely difficult to maintain the content wholesome and even impossible to find out necessary messages after several days. This makes it difficult for clubs and chapters to communicate effectively. They need a digital space where their reminders can be shared and not lost with time. A Digital diary for club and chapter reminder is a software application that help students to discuss on their club and chapter activities. It solves the problems faced by students in the fore mentioned scenario. This application would allow users to have a private digital space where their share messages and set reminders for important events without any other unwanted messages.

***Key Words*: Digital Diary, Database Management, Event Discussion, Reminder System, SQL Database.**

1. INTRODUCTION

The Digital Diary is a quintessential database software application where a database is created to record all the details and it is effectively utilized to help the club members to communicate comfortably. It includes features to store and maintain the records of club members information, club members list, club details, event details and setting up reminders for meetings securely. Currently, there is no sophisticated software application for managing clubs and chapters and set reminders for the members. In Telegram and WhatsApp groups, a newly joined club member don't get to know about the other club members and the current ones have no idea about who joined the group. Messages from the club and chapter get lost among spams and a lot of messages from family and friends. Chats get deleted on degradation of any app and the new member is unaware of previous updates in the group. We cannot set reminders for club meetings in the existing system with all required features. Thus, there comes a need for an ideal application like Digital diary for club and chapter reminders. In this software, the details of every member will be stored in the database and can be accessed only by the other members of the same club. A student can access his group chat only with his login credentials. This ensure security of the club data. It consist of member list where the club chairperson can add or drop members and the members have access to update their own personal information only. All the messages and reminders circulated in the Diary for a club and chapter will be saved in the database and will be retrieved in the new join's account so that he can be aware of the previous events and happenings of the club and chapter. This digital diary has a reminder system where the head of the club can set reminders which is reflected instantly in all member's login thus ensuring that the information related to important events are shared with the club members in an organized way.

2. EXISTING SYSTEM AND RELATED WORKS

Yechan Park et al [1], "A Digital Diary Making System Based On User Life-Log" was published in the year 2016. The method used is Oxford server for image processing and modified standard source of system for storing user photos. Its advantage is that the multimedia-based diary system off is an aesthetic user interface that encourages it and the disadvantage is that the amount of multimedia data captured is very large, and the problem is to find valuable photo/image.

Manjeet Saini et al [2], "Digital Diary" was published in the year 2015. The purpose is to allow user to store employee details, retrieve contact details. Its advantage is fully work on reducing time, easy to search information, centralized maintain of all performance. But, admin is not able to search employee based on name and id, data are permanently deleted from database.

Masaaki Wada et al [3], "Digital Diary System For Fishery And Applications Of Fishery Management" was published in the year 2014. The aim of their project is to provide a simple user interface for fishermen to calculate their resource outcome. They have to enter the details of their resources and the system will calculate the result based on the value of each resource. The system is not centralized,

yet if gives a good personalized experience for the fishermen as their personal diary with record of their resource outcome.

Kelly R Evenson et al [4], "A Digital Diary to track physical activity and location" was published in the year 2015. The method used is oxford server for image processing and modified standard source of system for storing user photos. It tracks daily physical activity of a person, provides a calorie counter for energy expended, easy to use, running continuously on mobile devices for passive data collection.

Harold Feinleib et al [5], "Electronic reminder system with universal email input" was published in the year 2016.it has a program that reads the email/message received and automatically assigns a reminder about the event and timings based on the instruction in the email/message. The purpose was to set reminder automatically according to the event in a given message. Spamming was one of its issue.

P R Dexter et al [6], "A Computerized reminder system to increase the use of preventive care for hospitalized patients" was published in the year 2016. The system was developed to create reminders about an event when an email/message is received with timings in it. The main purpose was to set reminders automatically according to the event in a given message for hospitalized patients. But, Spamming of messages was one unavoidable issue of the system.

3. METHODOLOGY

A Digital diary is developed to help all the student's involved in club and chapter related activities to share information effectively. The system provides a private platform where students can discuss, get information about other members and set reminders for club/chapter meetings. It intend to be an ideal application that has all features as listed below and featured as in Fig 1.1 :

- Login and Logout of Group chat
- Retrieve Club Details of active members
- Update Member List of the organization
- Search Member Details of the organization
- Instance Reminders and Discussion
- Update Details of upcoming events

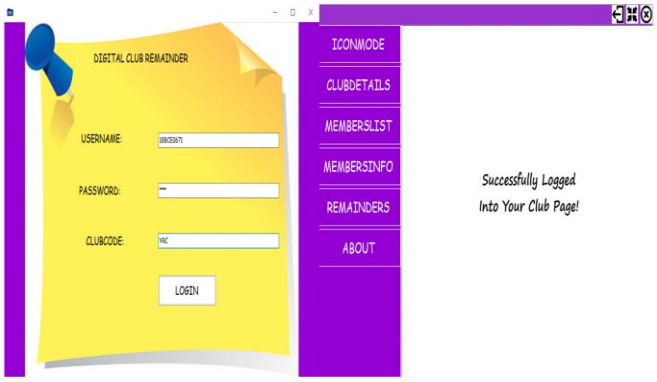

Fig -1.0: Login Page and Main Page of the Digital Diary

3.1 SYSTEM ARCHITECTURE

It is the Conceptual model that defines the structural and behavioral nature of the system. The system consist of the frontend for user interface design; backend for making interface responsive for user; stored procedures for connecting to database, SQL queries for saving data and retrieving data; and Database for storing the data in form of table. The system architecture gives an overall idea about the structure of the project as shown in Fig.1.1.

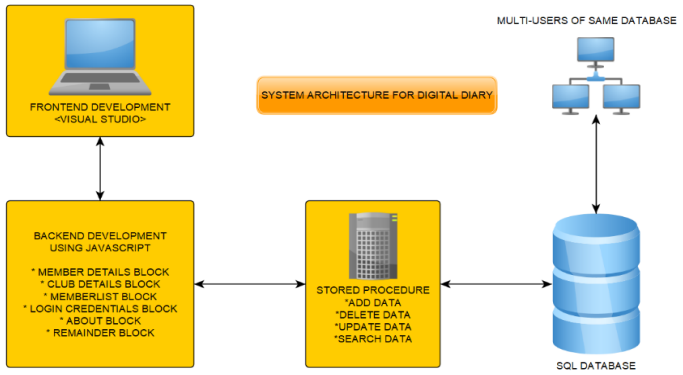

Fig -1.1: System Architecture Diagram

3.2 FUNCTIONAL ARCHITECTURE

The Functional architecture of the digital diary helps us to understand the functionality of the entire Digital Diary system. The system consist of a login page for validation of each user and directs them to the main page of their club based on the club code provided by them. After successful login, the user gets access to all the features provided by the system for his organization. The Club Details page maintains record of all the active members in the club. The Member list page provide access to all the users to update their personal details which is visible to others on searching. Only, the club chairperson can add a new student to club, delete existing member and update details of a club member.

The Member details page provided the details of members belonging to the club based on the unique id of a member which is available in member list. In Reminders page, all the members can do discussion and the head of the organization has an additional option to set reminders which is reflected in all club members profile. The About page shows the details of upcoming events in the club. As a whole, the functional architecture has a significant role in explaining the functions of the developed Digital Diary system as shown in fig.1.2 and fig.1.3.

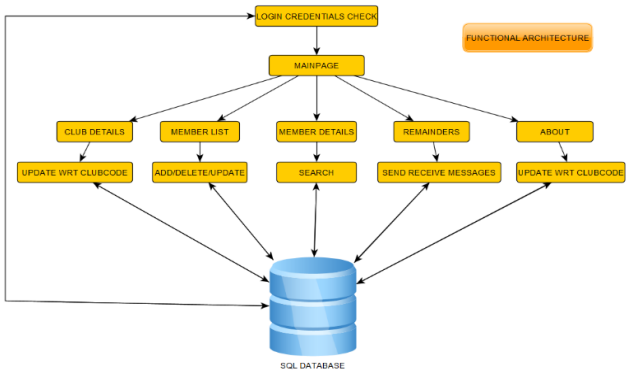

Fig -1.2: Functional Architecture Diagram

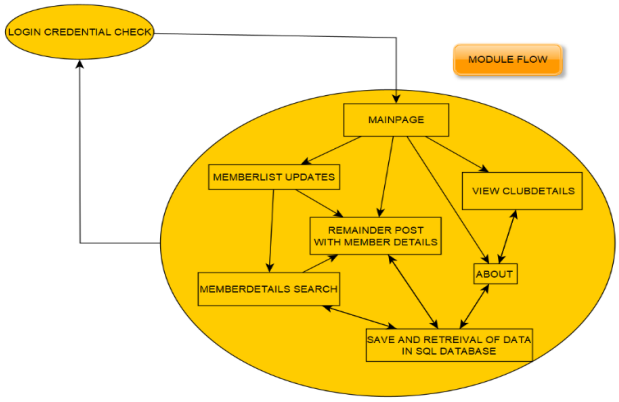

Fig -1.3: Functional Module Flow Diagram

3.3 WORKING AND RESULT OF DIGITAL DIARY SYSTEM

The entire Digital diary system for club and chapter is made up of many independently functioning modules with their unique functions. Modules of the system includes Club Details which maintains record of active members of the organization; Member List that allows user to access and update their data in database; Member Details where a club members can search and view detail of other club members with their ID as primary key to retrieve corresponding data from the database; Reminder module which is meant to discuss and set reminder for club meetings; and About that provide information to all club members on upcoming official events of their club.

3.4 CLUB DETAILS

Fig.1.4 shows the Club Details Page and it's work flow. This page retrieve all the member of the club using the club code from the database. Also, it retrieves the data of board members and faculty in-charge of the organization and displays it.

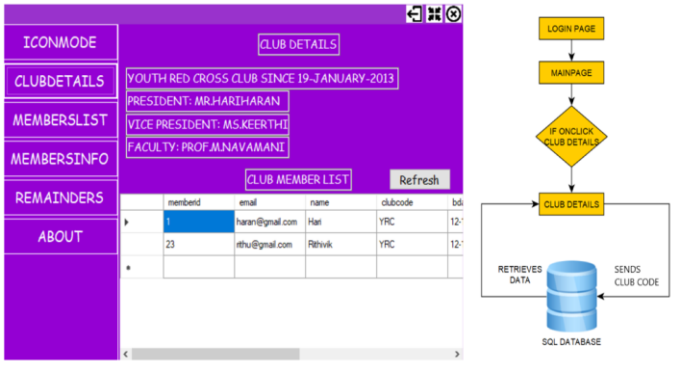

Fig -1.4: Club Details Module Diagram

3.5 MEMBER LIST

Fig.1.5 represents the Member List Page and it's work flow. In this module, the head of organization has authentication to add a new member into the database who can access the previous club works. All the active members have authentication to update their own details in the database. This module will play an important role when the recruitments of fresher will happen in these organizations.

Fig -1.5: Member List Module

3.6 MEMBER DETAILS

Fig.1.6 shows the Member Details page and it's workflow. In this module Details such as room no, block no, address, year of study, designation of every member of a club etc.. is retrieved for the input ID of member from the database. Member details is an important module among which ensures that the events of a club can be

organized more effectively by the organizers of the event such as the president, marketing personal etc.. This module allows the newly recruited member to search details of all other members; and the active members to find out the details of new recruited members in the club.

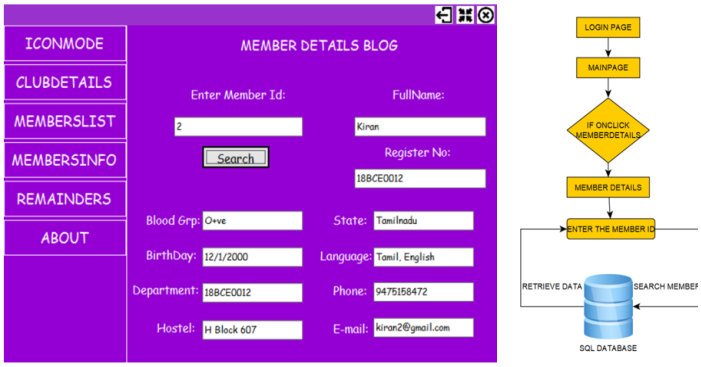

Fig -1.6: Member Details Module

3.7 INSTANCE REMINDERS

Fig.1.7 shows the Reminder Module and it's work flow. It is in this module where the members of the organization can make their official discussions on events conducted by them. The head of the organization has additional option to set reminders on any program or important meeting which will be in visible to all other member of the club. These features makes the system more unique from existing ones.

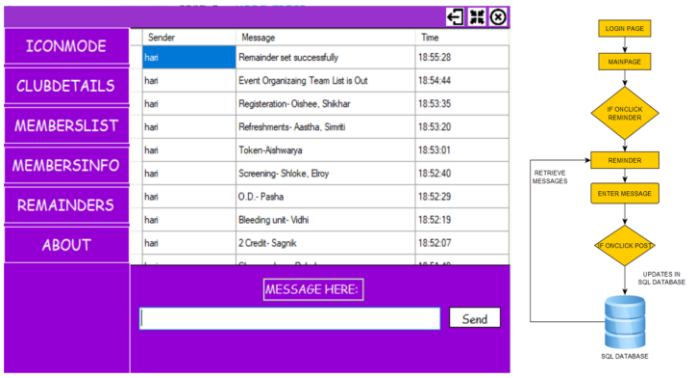

Fig -1.7: Reminder Module

3.8 ABOUT

Fig.1.8 shows the about page of Digital diary which has the updates on all the upcoming events of the organization. The page can be used for multi-purpose like sharing the photo gallery of recently conducted event by the organization, promoting a product, sharing post for event advertisement etc..

Fig -1.8: About Module

4. ADVANTAGES OF DIGITAL DIARY

- Standard Platform for Confidential discussions.
- Reminder and Discussions will be stored permanently.
- Multiple clubs can access this app over same time.
- Privacy of the event discussion is maintained within members.
- Each member has access to know basic details about other members.

5. CONCLUSIONS

The Digital Diary provides the members of student organizations - a new platform with all required features for effective group interaction and discussion. They can easily access all their group chats with different credentials if they part of more than one organization. New Recruits of the organization can access the previous discussions of the group chat. Board members can get active member list along with their details from the database while planning an event. And the developed system provides a solution to notify all the members of the organization instantaneously about meetings and other program. It acts as a hybrid application system with multiple good features from many existing system used for communication by the organizations.

6. FUTURE IMPLEMENTATION

In addition to the developed desktop software we can also create a mobile application for clubs and chapters using the same idea. We can also link both the databases via a common server so the club members can access the software from their phone as well as personal computers. The Reminder system can be updated to send notifications to registered mobile numbers so that the club members get reminded about the club events at the time of event too. Hence with sufficient resources to store data and

maintain the database, the Digital diary system can be used in club and chapters in all colleges.

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