

College Forum for Query Solving

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Abstract: *Information system development approaches are considered with particular references to information requirements analysis. This website aims to contribute to the discussion on tool and methods for system development by providing a contrasting perspective on information required in the analysis as a developed which is socially mediated. Therefore, a need for a system that could detect student problems and provide them with suitable public opinion is raised. This system will be able to handle achievement by recording and giving feedback for each raised problem by user. Result of student of the study can be a good reference to find out users needs. This system automates the existing system. As it reduce the time and paperwork. It store the database of various solution of all queries. Query solving system is very useful for student. This system stores the queries and their solution also. It is available for all users. It has the potential to become an additional resource that can be used to inform and improve student management.*

Keywords: *Question answer; Forum; Student record; Query; Natural language processing;*

I. INTRODUCTION

A forum is meeting or group where ideas or views are exchanged or a discussion take place. 'Forum' is a Latin word which literally means 'what is out of doors', originally denoting an enclosure surrounding a house. In the times of romans, it means a public place at the centre of market where open discussions on issues take place including political discussions and debates. It is also said that the modern forum originated from bulletin board.

Quora, a question and answering website was founded by Adam D' Angelo and Charlie Cheever in June 2009. In Quora, questions are asked, answered and edited. Quora user base has grown quickly from 2010. It has claimed to have 190 million monthly unique visitors. The similar idea of forum is used in our project. We used the concept of forum in college where students can easily post their queries, can see the notices etc.

In the college there are many situations faced by the students and teachers such as follows:

At a time of an important notice students are absent or students have some queries but the teacher is not present

Not only that but sometimes students feel shy or awkward to ask teacher questions about the problems they are facing.

Teacher also have to read the notices in class and that wastes the time which can be helped in learning.

Also, if students want to talk to their seniors or alumni there are no facilities.

So, in our project we created an online college forum where students can ask questions, teachers can upload the notices or they can also talk with the seniors and faculties. A college forum is a platform where students can have a discussion about a certain topic or ask questions to other students or faculty.

Living in a modern world and not using digitalization a better way will be more time consuming. Online college portal is designed to implement digitalization and reduces work of college staff and faculty. It provides capabilities for multiple users with different permission levels to manage, add or delete data.

In the college forum, different facilities are given to users. First students will have to register themselves on the website. Faculty login will be generated by the cloud admin and they can fill their own details. Faculty can upload or write notices. Also, students can ask questions so that their query can be solved. Not only that they can communicate with the ex-students or alumni about questions they have.

II. EXISTING SYSTEM

Today our colleges and university are working on manual base system, that system required lot of time and lot of man power. All the records of students or staff are recorded manually. This required lot of paper work and wastage of paper. If student want to interact with ex-student then there is no facility to interact ex-student with regular student, that means the interaction between student and ex-student is not possible. Many of the students are not regular due to some personal reason then they will not understand what is going in the college. In Colleges all notices are dictated on the notice board for holiday, events, exam timetable, scholarship form, fees structure. If the student was absent he will not be aware of it.

In college if placement department want to conduct campus then they will send the notice of the company updates to the students manually it requires lot of time and lot of man power. Many of the students are not aware about the campus update and are not interacting with the placement officer. Many students having a query at the time of learning out of them only two or three students ask their query to the teacher, then only his query get solved, also students having fear of teachers so they don't go to ask them. If the teacher or another faculty want the information of the student for filling the counselling record then it is

hard to find the information of student. Also, teacher gives the assignment to the student on the notice board. There are many students who didn't notice it and didn't complete the assignment on time. In colleges, student can communicate with only those students who know each other and can't communicate with another student.

III. PROPOSED SYSTEM

This project will be useful for students, teacher and complete organization in which we are providing a cloud-based system which contains the following noticeable content:

- Cloud admin
- Admin panel
- Forum
- Notice section
- Staff
- Students
- X-students

A. Cloud Admin

Admin can create login for pending colleges. Admin can give authority to college to use services. Admin can also view data of registered colleges. Admin can track college admin and if any problem is reported then he can solve this problem within time or provide replacement of any module. Admin can track payment because they provide services that organization requires and on the basis of service used.

One of the important functions of admin is Account locking/unlocking

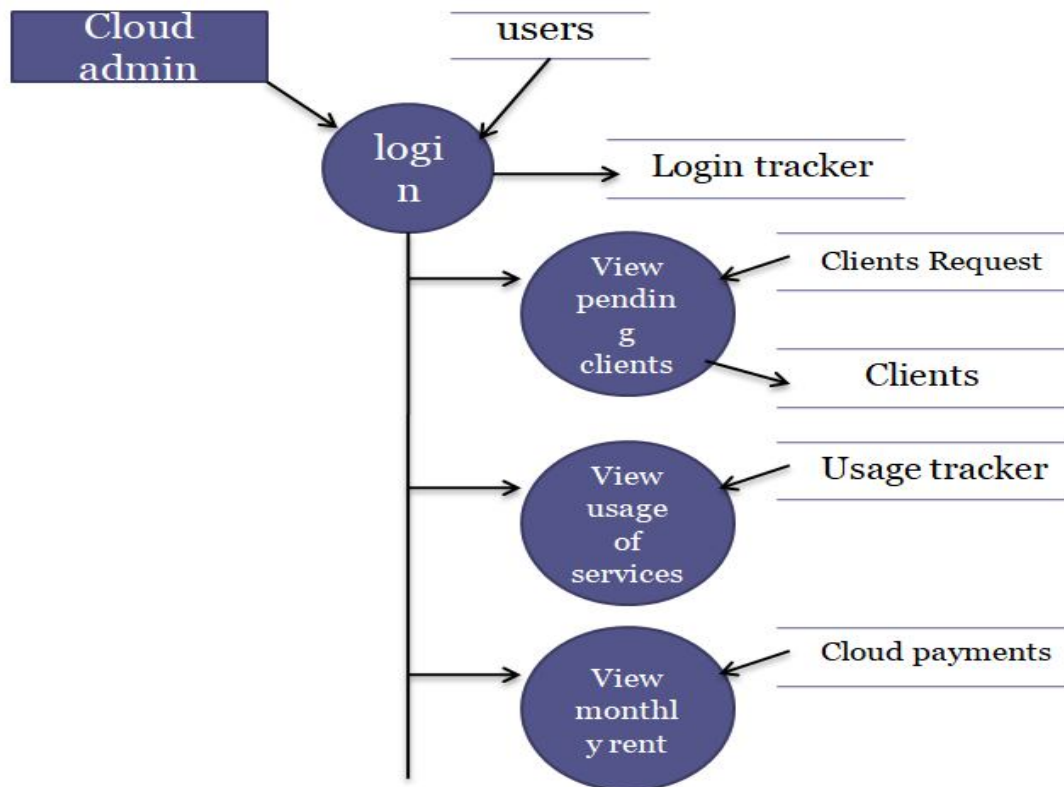


Figure 1: Cloud Admin

B. Admin Panel

College admin request for membership for accessing services. Cloud admin provides log_in id and password on email to college admin. Then college admin logs in, then admin starts managing TNP Section, registers previously held campus details and also registers for future campus events.

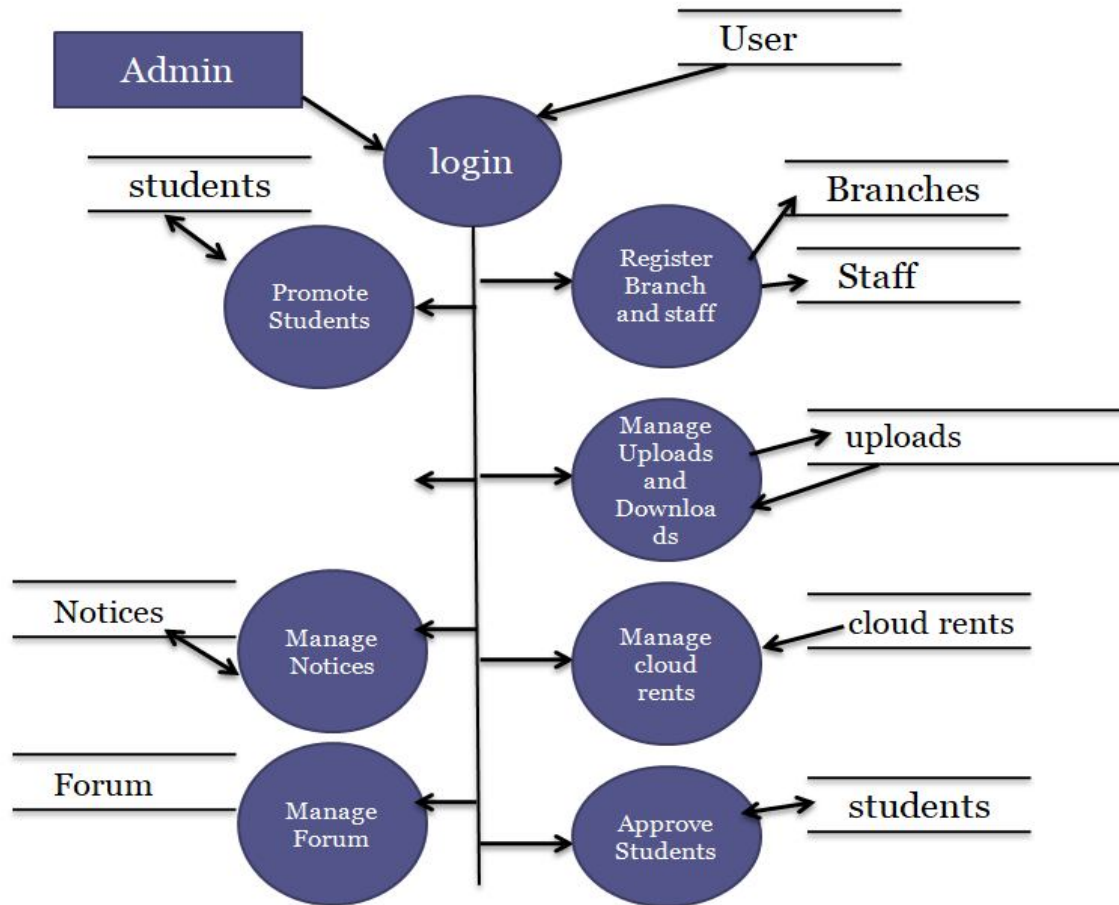


Figure 2: Admin Panel

College admin manage notice section and Register notice as per the access permission. He/She has also some sub services like Delete notice, start register and can create login for staff. He/She also Deactivate staff if required(if any staff leave organization) organization. Admin can give facility to Approve student pending registration request for stopping registration of unauthorised. Admin can view all students, staff. In system, inter communication is present. It is admin job to manage inbox, outbox and communication .he/she can view suggestions posted by students and reply them and can take action about it. If student has completed his/her degree then promote these students to x-student is done by admin.

C. Forum:

It contain main objective of system in which user Post new question and also Post answer for any question and Search question and answers and he/she satisfied with answer Rate answer is also present to give rating to any answer.

D. Notice Section

In this system, notice display is special part and notice generation is one of the part of it. it is most important to give access permission for user and Delete notice after specific period.

Notice Display:- If student's profile matches to the access permission specified for the notice, the student will be able to view that particular notice.

E. Staff

Staff can get Login details from admin and login to system to take use of all services. Staff can manage forum that authorise and manage notices. Staff can communicate with students, staff and /admin. Staff use inter communication, manage inbox and manage sent items.

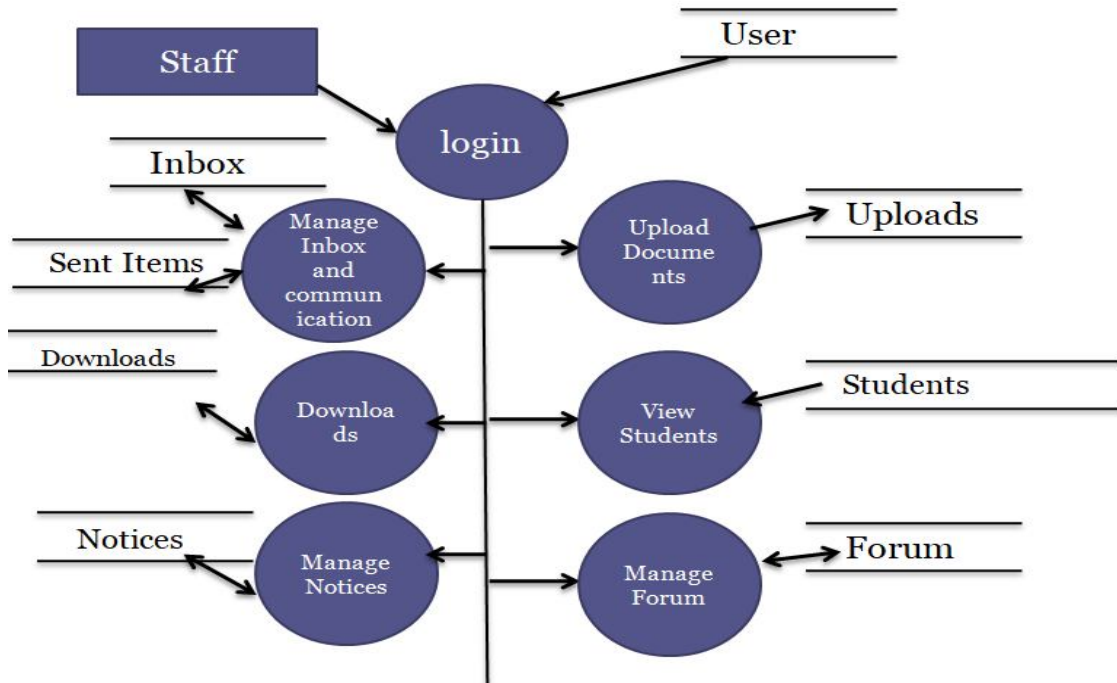


Figure 3: Staff Module

F. Students

Student is the 1st Registration in to system. If registration is confirm, then student can login in to system and use all services like View notices, take part in forum, get notifications about TNP events, communicate with X-students, staff and admin, manage inbox and outbox and can submit website feedback also. If user want to post any suggestions to admin then this is available.

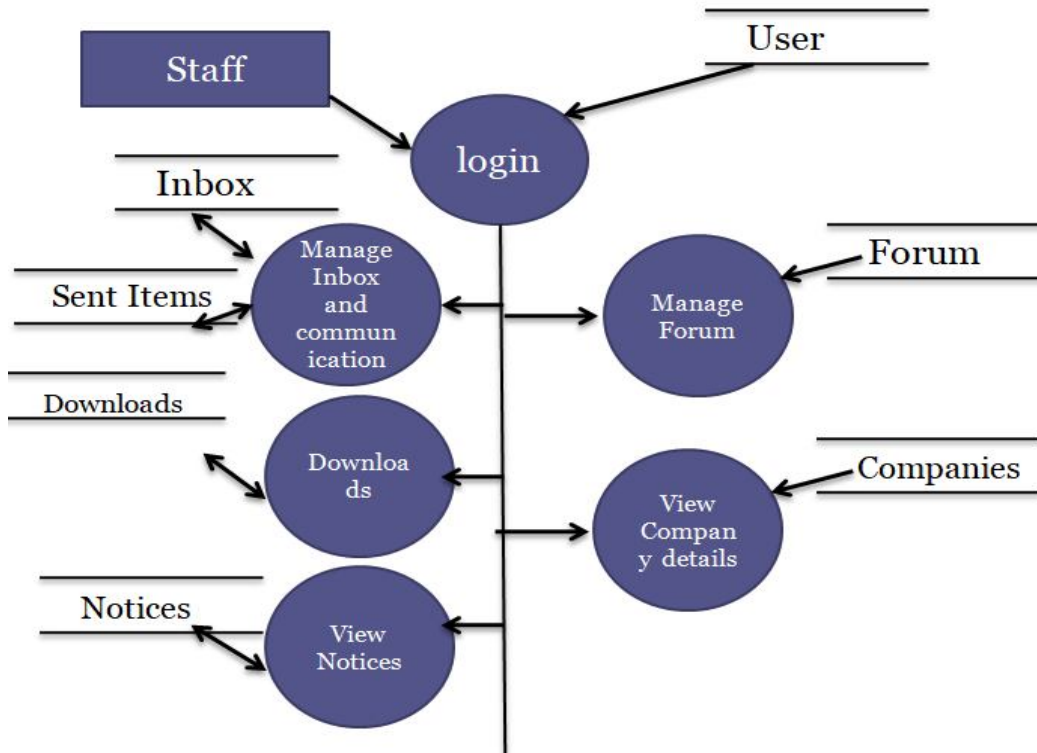


Figure 4: Student Module

G. X-Students

X-student can register first. Then by gating verification he/she can login to system. take part in forum, communicate with other users and manage inbox and outbox.

IV. ALGORITHM

A. NLP based Relevant Answers Finding Algorithm

NLP stands for “Natural language processing”. In this, algorithm is applied on users. specify query then divide it into small token called Tokenization in which 1st we can separate Subject, Verbs and Predicates extraction because this word is not replace by other word. Then searching these keywords in database, if similar word is found in list and Re-rank matching questions and answers according to historical ratings/views given by students and staff.

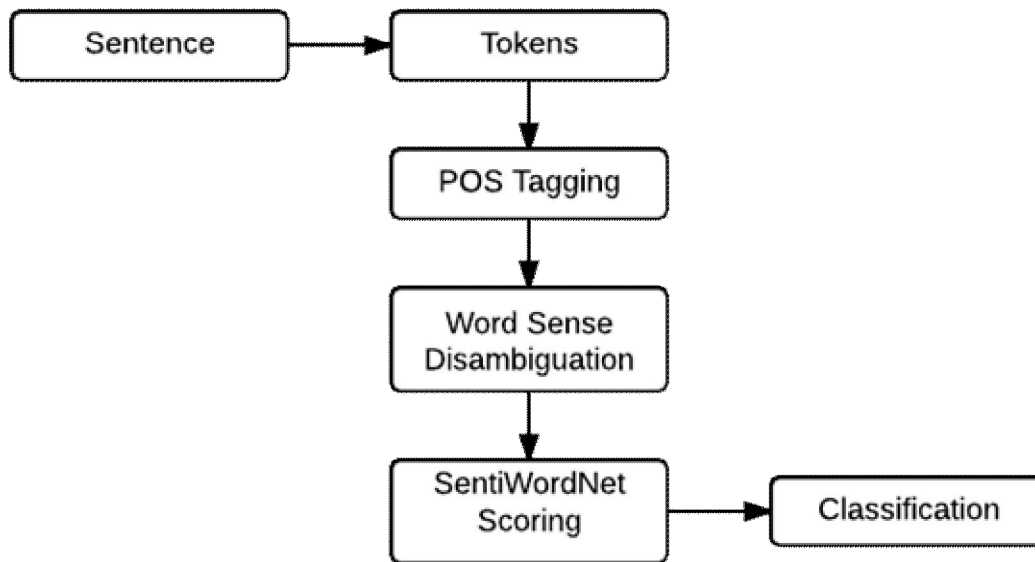


Figure 5: NLP Working

The NLP algorithm mostly work when there are any questions put by any person and that is already present on the site, then that get repeated. To avoid repetition’s we use NLP algorithm. Part of speech is essential for building blocks to reduce the word from its root this tag is based on its context and definition.

V. ADVANTAGES

Forums create a discussion environment by saving any information posted on a certain topic for others to see at any time, thus people can have high-quality discussions since they would have time to think about and research the topic/comment at hand. It has ability to express and see differing views and opinions on a diverse range of topics.

This system will lessen the work load on the institute.

It reduces paperwork and can be monitored easily.

It will connect the students not only with their friends but also with the faculty.

The alumni can also talk with students.

VI. CONCLUSION

System will reduce the work load on the institute. It is beneficial for the users whose important time and energy is preserved, for the affected educational college’s authority whose workload is immensely reduced. It reduces paperwork and can be monitored easily. Also, faculty and management will have the work for them decreased as record of students will be there and the notifications to all students will be made easier.

A knowledge portal in the organizations can get a friendlier knowledge community. A more informed knowledge community with a strong sense of skills may enhance its own success. As more knowledge is shared the quality of information will

increased. Many college portals don't have query solving. By using this it will solely help the student to solve their doubt at that time. Their time will be saved. This system is essential in the colleges and universities.

In this we can combine all the member of college not only student but also faculty can get included. Many college have their own forum but only faculty can convey their message to another faculty not students so, our aim is to built this forum to solve the problem of each and every students. Forum not only connect the students to students or faculty to faculty it also help to connect alumni. Suppose students want to talk with alumni but they don't have any contacts number so our forum can help the students to communicate with alumni.

At one time many student's doubt will be cleared. If one of the students asked the query in forum and same query has ask by another student, so they won't waste their time in asking the same doubt. In this forum we are not only solving the query but also we can get all information about notices. Suppose when students are absent that time they miss the important notice so our forum can help students who were absent and they will not miss any important notice.

VII. FUTURE SCOPE

The query solving covered the many issues that affect the communities with the region. The framework covered provides guide on council's decision making many issue including:

- A. To implement in college and organization designed with diverse application potentials ranging from students to college.
- B. This records at academic level to management of all students related function as well as administrative function of university.
- C. It has the potential to become an additional resource that can be used to inform and improve student management.
- D. In future we not only write the query in inbox but also we can ask the query in video call, so there will be face to face communication.
- E. This forum not only connect the student but also it will connect to the students' parents. Faculty will directly call the parents and can tell them about their child progress.

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