

# PROJECT PROPOSAL

## C-TALK

Version 1.3

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**Revision History**

Version	Description	Authors	Reviewers
1.3	Feasibility Report for Accepted	Vipin Sahu,Shikhar Dhing	Anjali Kumari , Sai Prahlad

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# 1 Introduction

As a part of Software Engineering Project, we are trying to make a Q&A Platform for the faculties of the college and the students studying in it. It would be a platform wherein Students can post their doubts regarding any courses and do the same on the platform anonymously. On the platform, any student can post their responses on a particular doubt, But The responses of faculties and students will be bifurcated. The questions will be classified on the basis of certain tags. This would help students in getting to know if a similar question they want to pose has already been asked or not. When a question is dedicated to a certain professor, He/she will be notified about it by a mail notification. Any student can up vote or down vote other students responses, so that Others can get some sort of an idea about the credibility of the response.

We are taking this project in order to make an effort to increase the interaction between students and teachers. It often happens that a student wants to ask and clear his/her doubts during the class but they dont because of various reasons. Some students are shy and are not confident to speak up. Some students think about what others would think about him/her. So, we want to make this platform to help out such students, so that they can ask their doubts anonymously. A particular QA feed will appear in the feed of every student who is taking a particular course. The Q&A platform will not only benefit the students who will post their doubts but all the others too.

## 2 NEEDS AND PROBLEMS

### 2.1 Tools and Resources

- For the front-end of our Web Application, {HTML, CSS, JavaScript, Bootstrap}
- For the back-end of our Web Application, {NodeJS/ Ruby on Rails}
- For the database of our Web Application, {MongoDB/ MySQL}
- We would use a combination according to the compatibility of the web application.{Heroku}

## 2.2 Problem Definition

The following set of problems are addressed here

- To help students who are not able to clear their doubts with teachers, due to any reason.
- To remove time as a factor for students to approach any faculty.
- To increase peer to peer interaction in some sort of a way.

## 3 Goals/Objectives

- Provide a platform to students to ask their doubts freely.
- To help the teacher to easily interact & answer a student's question in an organised way.
- To let the teacher answer anytime and anywhere as per their schedule allows.
- To let the student access best content by voting mechanism.

## 4 Procedures/Scope of Work

Many students due to many factors like time or their shyness or unavailability of the professors are sometimes not able to ask and solve their doubts/queries. This affects their basic understanding of a particular topic and Academics, as a whole in some sort of a way.

There are few online forums for asking questions of this sort, but they are not so efficient for students because the answers they get can confuse them. To increase the efficiency of responses/answers, it would be nice if they get their doubts cleared from the teachers who have an idea of where a student stands, as far as his/her technical skills are concerned.

So this will be solved by building a dedicated web application for the university, where every student enrolled for a certain course in that university can access the platform, where they can post their academic queries or doubts and A professor may reply to those queries as soon as possible.

## 5 PHASES

Phase One	Make basic functions like Registering, Login, Posting & Answering questions and set up voting feature.
Phase Two	Filtering Obscene language.
Phase Three	Testing Phase

## 6 Challenges

- To avoid addition of similar questions by suggesting the user same type of previous questions before he/she goes on with the posting of that question.
- To remove/avoid questions which are not related to academics and the Q&As that contains any type of Obscene content.

## 7 Target Audience

- College/School students
- Teachers

## 8 Applications features Description

- Requires the user to sign in (or register if he/she is a new user) to access the web application via web browser.
- The User needs to select his/her courses that he/she is taking, in order to search the posts according to tags.
- Posts(Q&As) of all the courses selected will be then shown in the feed.
- There will be another list of all the unanswered questions.

- Whenever a student posts a question, an email notification will be sent to the faculty dedicated to that course.
- There will be an option of voting on an answer too, so that the best content appears on top.

## **9 REJECTED IDEAS**

### **9.1 Ride Sharing**

The user with any sort of a vehicle will enter his/her details about from where he/she is going, how many co-passengers he/she can share his/her ride with and the fare he expects. Then, the other users looking for rides will contact you if they want to share that particular ride with you. Basically, we were trying to make those people interact who are going on the same way and facilitate them to share a ride together for a much cheaper rate than cabs. But for that, we needed to have prior Android development skills. We also needed to figure out a way to integrate an algorithm of Map subsets that we were not sure of. So, we didnt take it any further.

### **9.2 Image Sharing**

The idea was to make a platform to facilitate sharing pictures in a group. It often happens that When we go out in a group, the one with the best camera is the one who clicks the most of the pictures. In this platform, when we post pictures, it automatically tags other people who are on the same platform by Image recognition and those photos directly go into their photo buckets too. In this case too, we didnt have a prior experience in image processing and recognition and were not sure if we would be able to integrate this thing into a platform in the end.

### **9.3 Active Memory Sharing**

We were trying to share memory storage of a device actively with other users. Its an application which will enable users to share their memory storage LIVE among other users via a medium. For example, if you have got a buffer of at least 5-10 internal MB, you still would be able to capture pictures and

videos worth GBs. Again, it would be infeasible for us and in this one, we didnt have any idea about how will we go on with it from the up front.

## **Acknowledgment**

The authors would like to thank you for your valuable time.