

# CBIT HACKTOBERFEST HACKATHON 2020

## *Problem Statements*

### 1. Placement Management

Each year tens of thousands of students sit for placements from colleges all over India. Some students miss out on many opportunities. There's an immediate need for an application which classifies a list of companies that a student is eligible for through their GPA among all the other companies in the placement list, further providing the necessary resources useful for preparation.

### 2. Portal for Ragging and Bullying Complaints

Almost 80% of the students in an institution undergo ragging in their first few months in a university. Many of them aren't able to deal with it, which leads to unfortunate circumstances. What can help these students would be an application which allows them to fill a form which would be sent to the respective in-charge regarding the student's personal details, date, time and place where they have been subjected to ragging/bullying so that necessary action can be taken.

### 3. Campus Guide

Thousands of new students join an institution every year. Universities are vast and difficult to navigate through and a guide would make their first few trips in the campus much easier. A user-friendly application which provides them with directions to their destination anywhere in the campus, through a chat bot by mentioning the current location and the destination would be just what they need.

### 4. Car Pooling

Many students prefer to come by their own vehicles to avoid congestion in public transport, or to sleep a little longer. But many of these students start from the same destination and around the same time, to come to college. To help these students decrease their carbon footprint, they can make use of an application which gives them a platform to communicate with those whose uploaded destination is similar to theirs, making the carpooling process easier and simpler. The application could also provide the available modes of public transportation to reach the destination

### 5. Life Saver

Hundreds of accidents take place everyday in our country. Many of which lead to the death of a person because they weren't able to receive help in time. Most of them don't have either the time or the ability to search for helpline numbers. They could use an application which notifies the person's current location as an emergency, indicating an accident to the nearby emergency services like police and hospitals through one click in their mobile phone.

## 6. Learning Management System (LMS)

With the current pandemic in place, every Institute needs a digital platform, whether it's for teachers to manage their modules and schedule examinations and assignments as well as clarification of doubts, or for students to maintain a record of their scores and attendance report. They also need a section to neatly organize daily class recordings.

## 7. University Info

Students apply to many universities all over the world, and write several entrance exams before finally enrolling in a university. Sometimes many of these students don't do enough research for their preparation. Based on their areas of interest for majors, they should be able to filter universities and retrieve a list of necessary qualifications and expected cutoffs for making it into the university.

They could use the help of an application that displays previous years' scores, topic wise weightage, analysis reports for the exams they will be writing. Finally, based on the rank or marks obtained by the student, they will make use of this application to retrieve a list of the colleges and branches they are eligible for.

## 8. Resume Creator

When a person is on a quest to obtain a job, they send out at least 10-15 copies everyday. And when the recruiter receives this resume, not more than a minute is spent on going through it before they make a decision. This resume needs to be to the point but also interesting to look at. Many struggle with this part. They could use the assistance of an application which creates a resume for them through their details filled, choice of layout, style, theme. It could also act as a platform for recruiters.

## 9. Leave Notifier

Requesting a leave and waiting for permission is a tedious process. We can speed things up by using a digital system which allows faculty to send a request for leave with adequate information to the respective branch HOD and also giving the HOD the details of the faculty's leave history and further notifying the HOD's decision to the faculty.

## 10. Medical Guide

An application which allows a person to check medical services such as hospitals and clinics nearby. Furthermore, giving access to the pharmaceuticals to update the availability of the stock in their pharmacy. The application should be able to allow the user to book or request the medicines they are in need of, and the user will be notified of the store that can get the medicine at the earliest. Additional features could include a symptom checker/predictor for the most common illnesses.

## 11. CBIT Stackoverflow

Waiting till the next class or the next time a teacher is free wastes a lot of time. Sometimes we shy away clarifying doubts with our peers. But many of these students may be sharing the same query. We can help these students by supplying them with a platform where they can post their queries (anonymously based on preference) and any other peers or seniors or even faculty can clear them.

## 12. Find a Tutor Online

A tutor can sign up and sign in to make him/her available to the world for tutoring. (Directory of tutors)  
Tutors can be searched by location, subjects (subjects could go from math to gym), language and name.

## 13. University Allrounder

The one stop application for university students. The app should be able to assist them in ordering food in the canteen instead of waiting in a queue, show them a list of available items in the canteen, notify and keep them up to date about events happening in college, a page for lost and found and also a calendar that displays the list of holidays.

## 14. Skill Developer

Every student is unique and has some strengths and weaknesses. So the application should be able to suggest to him/her to improve or work on their weaknesses by giving proper recommendations.

## 15. Geekbuddy

This platform should help bring together geeks with similar interests to connect. Whether it's a fanclub, a book reading circle, or movie/TVshow enthusiasts, this is the platform where they should be. The platform could include forums for them to share their theories, for readers to hold book exchanges, and for movie/tv show bingers to schedule watch parties.

## 16. All About Corona

There is too much fake news going around during this pandemic. There's an immediate need for a portal where users can check live updates where fake news is filtered out. The application should also include a live map on daily case updates. Additional features that make this application efficient should be included.

## 17. Chaitanya Kreeda

During SHRUTHI, the cultural fest of CBIT, the sports club Chaitanya Kreeda will be conducting many competitions in various sports like football, basketball, kabaddi, cricket, volleyball etc. Develop an application which tracks and counts the game scores of every match in all the sports. Your app must only be able to display the scores of the ongoing matches between different branches but also the scores, reviews and summaries of the previous matches too. So make sure that only the admin can update or modify the scores. Any different features like live commentary, a live chat between the users who are viewing the match are always appealing.

## 18. Blood Donors App

Bridge the gap between the blood donors and recipients. The application must focus on two major things, i.e blood donation and request for blood. The location details and blood group of the donors are shared. Whenever a person is in need of blood, he can post his requirement and donors must be notified about this. A donor must be able to see the list of all the requirements, and ensure that those requirements match the donor's blood group and reside closer to his location. Try to navigate the donor to the destination by integrating your project with google maps.

## 19. Blind Mail

Have you ever thought of how a blind person checks his mail? Maybe voice recognition works well in this case right. They need an application which enables a blind person to check his mail. The app must be able to read out the contents of the inbox etc. The app must be fully operable by voice commands for daily usage, such as checking emails, replying and managing mail. Voice based input and voice based navigation are mandatory.

## 20. Project Bubble

An application that brings users with similar interests together so that they can collaborate and work on projects. It should be able to save information on potential teammates, reach out to them regarding their matched team and also be able to find a suitable mentor for them. The portal should be a safe space for them to share projects ideas, problems and help in academics among students. Students can use it to capture their work-based experiences and share their learning experiences with other students through text, photos or videos.

## 21. CBIT stationary

An online portal where students can sell/buy their old resources like books, drafters, calculators etc.

## 22. Ctrl-R

With everything going on right now, we all definitely deserve a break. But there's one problem. We're so carried away with our work that we forget to stop and breathe. This brings about the need for a self care application, to help those to break free from overwhelming work. To focus on their health, to remain motivated and to have fun once in a while. This application should help the user to set reminders, schedule their time in advance so that they could add breaks in between, and display daily motivational quotes. Any additional features that work towards the same motive of the application can be added.

## 23. Climate Change

2020 is on course to be the warmest year on record. Climate change is affecting us in more ways than we can imagine. But there's a huge gap between what the general public knows. We could use an application that sheds light on this problem and clarifies common misconceptions. The application could include useful learning modules, animations, fun quizzes, regular updates and resources to encourage it's users to raise more awareness and do their part. The user should be able to use the app to track their carbon footprint and take suggestions from the application in areas where they can make changes in their lifestyle to decrease it.

## 24. Babysitter Finder

This platform should help babysitters connect with people in need of one. The application should show babysitters within a 10-15km radius. Both the babysitters and potential clients should be able to view each other's profiles. The client's profile would include the age of the child, required timings and a list of services that would be required of the babysitter to attain. The Babysitter's profile could include their available timings, location, previous work experiences, and rating from previous clients.