Abstract for Golden Hour Service

College Name: VIVEKANAND EDUCATION SOCIETY INSTITUTE OF TECHNOLOGY

Team Details

Name	Member/Leader	Year(Second/Third/Final)
Mahima Motwani	Leader	Third
Rahul Shamdasani	Member	Third
Amit Bahreja	Member	Third
Sagar Raisinghani	Member	Third

Problem Selection: Golden Hour Service

Kindly elaborate on your understanding of the problem chosen? *(Max 250 words)*

a. *Understanding of the Problem*

In golden hour response we basically need to design a mobile app, which will actually provide a golden hour response not only for the road accidents but also to all the problems which need an immediate response (like fire emergency,road accidents and also to natural calamities). Main thing that our app will be doing is suppose in case of a road accident it will allow the user to press the SOS button and click a picture and mention some comment if possible even if the phone is under some password protection. As soon as the SOS is pressed the location of the accident will be sent to all the nearest hospitals and also a copy of the report will be sent to the police station because the hospital cannot proceed with the treatment unless the police case is filed.The app will simultaneously send the notification to the hospitals and the hospital that approves first will ensure quickest response provision.

Main aim for sending the photo along with the notification is that after watching the photo the hospitals will be able to decide that how critical the situation is and what should be the main first aid that should be sent and if in case there is a cardiac arrest or a lot of bleeding then the hospitals will also send some specialized doctor along with the ambulance if required.

b. *Most Challenging aspect of the problem*
   ➢ *Providing active internet connection even in the remote areas as the app will require internet connection for it's working.*
   ➢ *Making the hospitals manage this app and be available 24X7 for attending any emergency.*

c. *Reason for Choosing this problem*

Most responses in crisis situations fail in the first hour or two. That's because the most challenging aspect of readiness for urgent situations is the strategy for first response. Problems become emergencies, crises, or disasters due to the hesitation, timidity, and confusion that occurs as the threatening nature of a situation rapidly unfolds is recognized, and management is overwhelmed. When a crisis occurs, management has a crisis of its own.

A successful first response depends on the activation of appropriate counter measures and proactive decision making that were pre-authorized during the crisis response and readiness planning process. According to the survey done by Indian government, there's one death in every 4 minutes due to road accident in India. To overcome this loss, we have selected this topic. We think that we have sufficient technical skills and that we along with your support will be able to implement this project with great

efficiency. And a project like this will be a great help to our society. We would be obliged to do something like this for public.

Kindly share how do you plan to approach the problem chosen? *(Max 300 words)*

a. *Approach*
  ➢ *Our first step will be to carry out a survey in which we will be meeting some of the doctors which usually get road accident emergencies and will try to explain them the working of our application(Which is explained in 'understanding the problem' section on the top), and we will try to get some additional features that must be implemented in our application.*
  ➢ *Then we will create an android app to search the nearest hospital and also to guide ambulance driver with the exact location of the accident, this will be done using google maps API.*
  ➢ *The next thing we will be doing is to add an alert that will be sent to all the nearby hospitals informing them about the exact location of the accident, details of the victim(this information will be already stored in the app) and also the image if uploaded.*
  ➢ *If any hospital responds to the alert sent, then other hospitals would be notified that the help has been sent.*
  ➢ *We will add SOS alert shortcut to the mobile so that it is quickly accessible(in spite of mobile being locked).*
  ➢ *The app will also send an alert to the family members and the police as well.*

b. *Platform/Coding Language/Framework*
  ➢ *We will be using Android Studio and Android SDK for developing and designing the app.*
  ➢ *The coding will be done using JAVA programming language.*
  ➢ *Framework that we will be using is open source framework for building truly native mobile apps that compatible with IOS as well.*

c. *Database*
  SQLite database used in Android Application Development. It is Open source, Lightweight database. It uses Single-tier database architecture. SQLite is an Open Source Database which is embedded into Android.

d. *External Tools*
  We will be using various tools like mobile analytics reporting tool, crash reporting tool, bug reporting using Android studio.

e. *Fortnightly targets*
  ➢ *In the first phase we are planning to carry out a survey and meanwhile creating a login interface of the app to distinguish citizens and hospitals.*
  ➢ *Next will be creating a code to search hospitals nearby and sending them an alert for an accident.*
  ➢ *Proceeding this way we are planning to complete whole application work in a period of two months and keeping one month as a buffer for user testing and checking of bugs in the prototype.*

Why do you think your team will be able to implement a winning solution? *(Max 300 words)*

a. *Previous Projects Undertaken*
  ➢ *Our team is currently working in spRdh- An intercollege competition with topic CuraTech which is basically an online health consultancy.The reason behind selecting that topic was to provide proper health care in remote areas.*
  ➢ *Hopefully we would be selected for the deep blue project competition and thus we have already started working on the same.*
  ➢ *Also in the previous year, two of our team mates worked on the project Smart Canteen for College and secured third place in the competition.*

b.   Team Strengths

All our team workers are quite dedicated and are working for many different projects from the very first year of our engineering. Today the mantra one must adopt for the attainment of success is 'teamwork and unity'. And we can assure you that it will be very well followed by all our members and there will not be any internals disputes which will never cause any hamper to the project and will guarantee a blooming output. All our team members are special in their own ways which includes front end, back end, web and android.

c.   Team Achievements
➢ *We secured 3rd position in spRdh competition 2016 for Smart Canteen for College project.*
➢ *Two of the team mates are technical officers of ISTE society.*
➢ *Rest of the team is member of class council (Class Representative and music council).*
➢ *We are selected for spRdh 2017 - an intercollege competition*
➢ *Secured first position for IOT mini project held at VESIT.*
➢ *Intern at Nuclei technologies as a data analyst.*

d.   Personal Motivations
➢ *We are quite interested and were waiting for a great platform to show our coding skills and do something productive for the society.*
➢ *We are strongly in favour of DIGITAL INDIA concept and want everything online.*
➢ *We want to enhance our time management and stress management skills*