

Good morning to one and all present here. I am Karthik and this here is my team Tharang, Goutham and Hari. Now, that we are introduced let me give you an insight as to what we want to do. Well, basically we want to create a mobile application. But not just any mobile application, but an application that will help the society and become a part of people's day-to-day life. If you are wondering how an application will help the society then here is your answer, our vision is to create a mobile application to create an ecosystem that will be an alternative for the conventional traffic sign boards say the speed limit board for example. A speed limit board basically tells us at what speed we should go nothing more nothing more. But with a mobile application we can do the same and even better like alerting the user when he over-speeds.

Well one day when I was riding my bike, I met with a near accident and was about to hit another person all because I avoided looking at the speed limit board that said 20km/hr and I went at 50. But luckily I escaped. This made me wonder that why not create an automated system that will warn me when I speed up in the wrong area. Considering that mobile phones have become an integral part of our life, I thought why not use them to automate this process of alerting the people.

With this we brain-stormed and came up with a way. Let me start by giving its requirements. The app doesn't need much other than an Android smart phone and a Cloud backend and an NFC tag attached to my bike so that whenever I tap my phone it will automatically start the monitoring service without me having to start it manually.

No let me give its specifics. The app basically tracks your location and uses it to download a digital traffic board, which we call the one-board. As the name suggest it is a single piece of data that contains all the traffic information from speed-limits to whether the road is one-way or not. This information will be used to monitor the speed and other details and alert the user he is in violation of any of these rules, say he/she exceeds the speed-limit of the particular road.

We have a cloud service that interacts with Google API's and our own cloud database and caches them. This data is then relayed to the users based on their location from the GPS modules. The controller then uses this to alert the user. This data will also be used to create a report.

The services which we want to use are pay-as-you-go and so we could give you only the upper-limits of costs. As displayed we need atmost 9000Rs to implement our project.

We could implement it as a pilot in major areas of Chennai within a year as we have to manually collect data. But once implemented the system requires less maintenance.

In future we plan to extend our work to all the mobile platforms. We also want to create an ecosystem of electronic boards that will have the power to transmit the data directly rather than the user getting them from the cloud. We also want put the data that we collect from our users to good use like using it to identify danger zones etc,.