**BULWARK**

**-map that acts as defence.**

**Abstract**

The purpose of this report is to provide guidance on the issues of sharing spatial crime data and crime maps. The target audiences for this publication are law enforcement managers responsible for making decisions about what will be mapped, personnel responsible for mapping, researchers, and Web site developers. The discussion is intended to help these individuals make well-informed decisions for their agencies and jurisdictions.

**Introduction**

Our problem statement is "interactive and friendly map application for the public to inform police about the crime & emergency in real time’’. The main reason to select this problem statement is,Bangalore, the Garden City, the Electronic City of India, the city which professionals, artists, educationists, big institutions and cultural hubs call their home, the city which embraces change, knowledge and modern technology better than other metros , and now, unfortunately, a city which has become the capital of crime against women, mugging, robbery in South India. Every 20min a woman is raped in India. Safety walking alone during daylight 69.75. Safety walking alone during night 42.27. When we generally talk about public Safety in Public Transport, we just concentrate on providing safety inside the vehicles. It is important to ensure the safety of public from origin to destination, rather than just covering one part of the trip.

In order to overcome all these problems which are faced by general public in their day to day life we are introducing an application called BULWARK which is meant to act as defence against all the crimes. Our application is built using the features of Bing maps API such as Geo coding, Reverse Geo Coding and other features, and php, html, Wamp server, Java Script, Geo location are used for front and back end designing so that we can built a robust platform to track and score safety in a neighborhood.

In Technical stack the Wamp server is used as database where information such as sign up, Alert, get position, comments, index, delete, maps and profile of the user is stored by the users and checked by the control room. It contains three tables, the first table consists of information of Username, Email and Phone numbers, the second table contains the information of location of users and the last table contains location of unsafe spots. Php is used as the server side scripting language. HTML, CSS, Bootstrap are used for the front end designing of the application. Java Script is used as the Client side scripting language. Microsoft Bing map API is used for Map interface. Geo location is used for picking up the current latitude and longitude.

Our App is designed in such a way that public can inform nearby police station / Ambulance about crime and emergency in real time. On clicking the **Emergency** panel, the user will be directed to a page where he/she can either capture image or select image from folder and click on button ‘send’ along with the name of incident and place, which will be sent to the control room, and further the control room will resend the message to nearby police station/ Ambulance along with the exact location. The **Safety** button consists feature called **comment** section which can be accessed only by police department which enables them to pick the spot and mark it as unsafe with different colour indicator on it depending on number of crimes that the spot is recorded with(Blue indicates the spot recorded with 1 to 3 cases, Purple indicates the spot recorded with 4 to 7 cases and finally Red indicates the spot recorded with more than 7 cases).So the user will be notified with all **unsafe spot**( with different colour indicator depending on number of cases) of the path they have taken(Between source to destination).The option **Alert** is used to take help of **patro**l and also to allow your friend and family to **track** your location. On clicking the alert, the exact location of user will be sent to control room with a message ‘There is an Emergency’, thus the message will be forward to nearby patrol of the emergency spot, along with this we have provided a feature where they can add up to five of their friends and family contact in the app, such that when they click on alert even those five contacts will be notified with the exact location of user.

**Conclusion :**  Thereby ensuring the safety of public from origin to destination rather than just covering a part of trip.

**So, our main target is to make our smart city as safe city.**

By,

**HACKtivists**