

## **RapidER (Mobile Healthcare)**

### **Abstract**

There has been enormous technological growth in the last decade in the domain of wireless networking with the advent of powerful wireless technologies like Data plan (3G,4G,LTE), wifi-direct p2p, bluetooth etc. With the recent rise in the adoption of cheap mobile devices(in contrast to standalone sensor devices), with a slew of sensors packed into them, we can use the sensing capability of these devices to detect scenarios such as fall detection[1]. These stem our motivation for this project which can potentially provide rapid response to emergencies[2] using infrastructure backed mobile networks or even peer-to-peer mobile networks.

In our presentation, we dwell into the details of our project which includes two main components, i.e. Sensing and Networking. We discuss the approaches taken by us to solve each subproblem encountered in the design and the associated challenges. We plan to go over some of the trade offs we have employed in our implementation so far and justify their use. Finally, we conclude by discussing some ways in which our application may be employed as a generic platform for some of the existing solutions.

### **References**

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