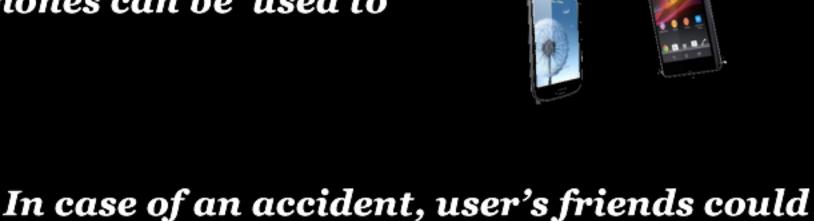
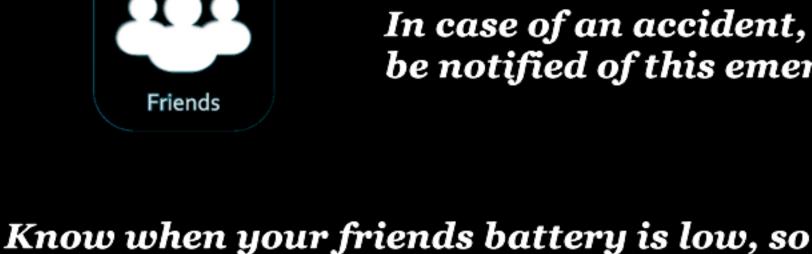


Cellular Network and Mobile Computing

Motivation

Sensors in smart phones can be used to





detect accidents.

be notified of this emergency.

you can communicate ASAP.



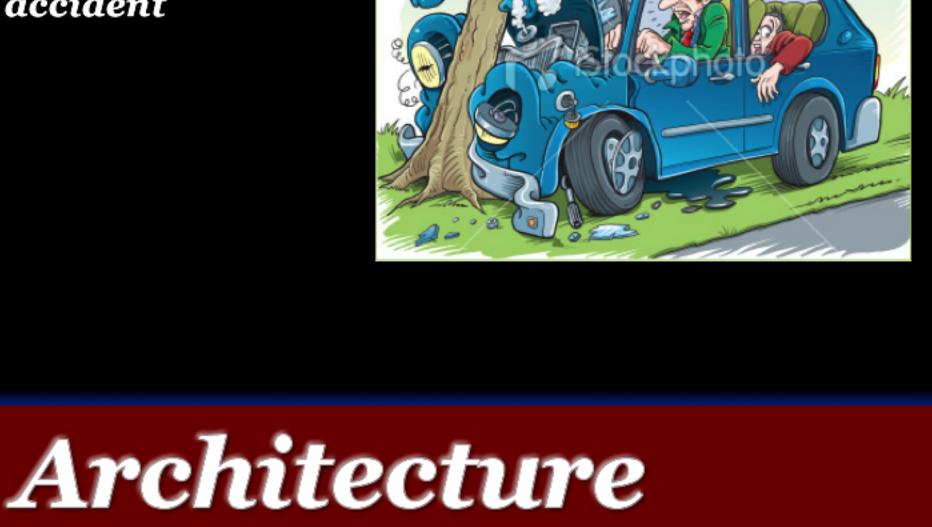


\$ 246

Know when your friends battery is low

Know when your friend has

met with an accident



django on EC2 on EC2 **AMAZON**

Amazon RDS



RDS tables store information about users, contacts, battery and accelerometer data. Analysis phase: Used the



Amazon RDS

G-force formula which is:

(x*x+y*y+z*z)/(9.8)*(9.8)



the phone is slightly damaged.

server.

client.

e-bugs

Features

django Efficient design:
Backend work is on the Django

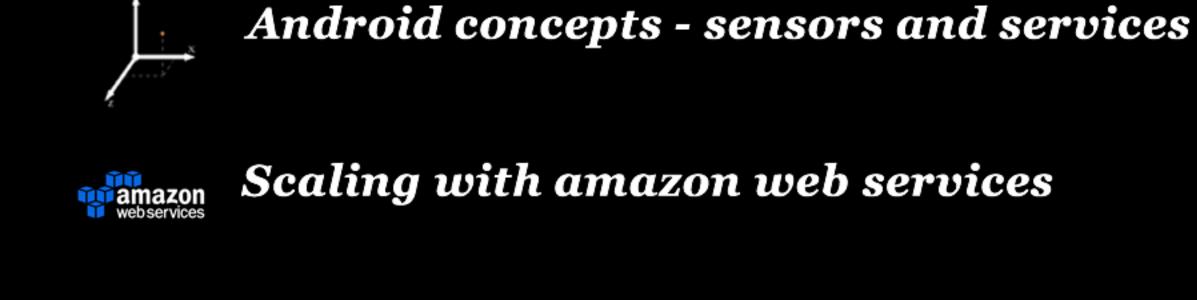
Concepts Applied

Saving battery consumption,

reducing computational

Data can still be monitored, though

complexity overhead on the android



of time.

android client.

Including the analysis

of microphone data

Scaling with amazon web services

Challenges/Lessons Learnt

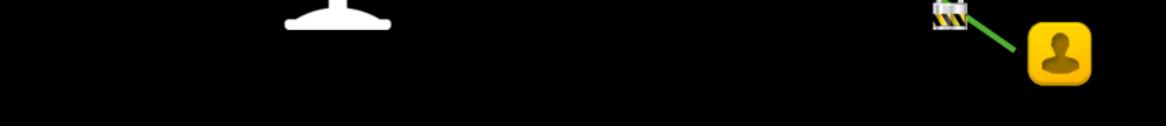
To use only the stand-alone part of Django.

Limitations

Establishing a connection to RDS from the

To monitor the sensors in the background

and switch them on/off at particular intervals



Need to obtain the

permission of the





iOS Application

GPS Integration

Android documentation Diango documentation

Wreck-watch paper

http://www.dre.vanderbilt.edu/~schmidt/PDF/wreckwatch.pdf



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