Mobile Tracker

Proposal for Colorado School of Mines MCS Field Session, Summer 2012

Client: Brian Krzys, Newmont Mining Corporation
Brian.Krzys@Newmont.com
Mobile 303 507 6934

Introduction

Newmont Mining Corporation at any given moment has people deployed around the world in potentially risky countries or environments. As such it is in the company's and employee's best interests to know as accurately as possible where people are at any given time. This is possible right now, but the systems are typically manual, and there is not a common portal for accessing the information. Utilizing modern smartphone technology the objective of this project is to provide a simple close-to-real-time tracking application that automatically uploads the location of an employee's phone to a common location. As a secondary objective a web portal will be designed and built to access the information.

Objectives

1. Develop a mobile (iOS or Android) application that automatically uploads the phone's location to a common web (cloud) location.
2. Application should allow you to specify the device's owner, and contain other relevant setup options.
3. Location information may be cached locally and uploaded when a cellular or wireless connection is established.
4. If time and interest permits a website will be built to access the information allowing individuals to see where they have been along with interesting stats based on analysis of the data (i.e. where did I spend most of my time?)

Requirements

1. Knowledge of mobile development tools, either iOS (preferred, Objective-C), or Android (Java) languages along with associated mobile hardware.
2. Strong communication skills, familiarity with Agile practices.

Work Environment

The work environment and location are completely flexible, but would anticipate a number of face-to-face meetings along with frequent electronic communication as a minimum.