Golden Fire Department iPad Application

Proposal for Colorado School of Mines EECS Field Session, Summer 2014

Client: Eric Daugherty, Double Encore
eric@doubleencore.com
(303) 351-1358

Company Background

Double Encore is a premier mobile app developer in Denver, CO headquartered on the historic 16th Street Mall. Double Encore has hired many Mines graduates over the past 3 years and actively engaged in the various career fair activities at Colorado School of Mines. Double Encore provides iOS and Android custom development services to its clients.

Project Background

This project originated last year as a Field Session Project. The Golden Fire Department previously used a paper grid map in all of its fire trucks to respond to all emergency calls. Last year's Field Session team build an iPad application that synced with DropBox to provide updated electronic copies of all grid maps in each fire truck, with the ability to search, zoom, and swipe between grids.
This project was a success and is currently used in all Golden Fire Department emergency vehicles. You can read more here:
http://www.doubleencore.com/2013/07/how-we-made-mobile-a-firefighters-tool/

Based on the success of this project, numerous additional fire departments throughout Colorado wish to adopt this application. Since the existing application was developed to meet the Golden Fire Department's needs, additional work will be required to support the new requirements and map formats.

This year's project will enhance the exiting application to support larger data sets and appropriate User Interface improvements.

Objectives

1) Enhance and improve the existing iPad application to take advantage of and navigate the metro wide map grid.
2) Link application using new APIs to the live dispatching software used on department iPads.

3) Allow the application to connect to more than one fire department's maps (selectable at home screen).
4) Allow remote updates and management of various department map pages via Dropbox & shared folders.
5) If time permits, give the user the ability to add notes and symbols to the map and push the updated map PDF back to Dropbox.

Requirements
1. Knowledge of mobile development in iOS (Objective-C) preferred but not required.
2. Double Encore will provide students with OSX computers if needed.

Work Environment

We anticipate a few face-to-face meetings at our office on a weekly basis.