**Landscaping Supreme**

Proposal

06/25/2015 \*Date of last edit

**Let’s Rally, Coding Challenge**

Ioan G. Istrate

Table of contents

Requirements / Solutions 3

Technology Stack 6

Interface command buttons ?

Interface written commands ?

**Requirements / Solutions**

**Objective:**

Bob is the owner of Palm Landscaping Services. Services provided are plant trimming, leaf and garbage pickup, dead plant replacement and weed spraying. In addition to performing these services himself, Bob uses subcontractors to help him cover all of his customers. Recently, Bob’s had problems with subcontractors charging him for work that they did not do. Help Bob create a simple application that he can use to ensure that his subcontractors are completing their jobs.

**Proposed APP type:** Responsive Web APP with 3 interfaces: Mobile for Subcontractor monitoring, Full View with comparison charts for Bob, Selective View for Client to review work done and marketing purposes.

**Requirement:**

1. Bob needs recorded proof of completed work per site, per visit.

**Proposed solution:**

* Subcontractor logs into system when he gets to the work site.
* Subcontractor is presented with the 4 offered services: plant trimming, leaf and garbage pickup, dead plant replacement and weed spraying. He is to select one.
* Subcontractor will be asked to take a before picture with his phone.
* When Job is done, Subcontractor is to take an after picture.

**Requirement:**

1. Bob needs to know how long a subcontractor is spending at each job site.

**Proposed solution:**

* Time Card / GPS system automatically starts after taking the ‘Before’ picture. When Subcontractor leaves for lunch breaks he can pause timer / GPS system

**Requirement:**

1. Bob needs to a visual graph of the work being completed per job site over time to ensure that all services are being performed routinely.

**Proposed solution:**

* At the end of the work day, the APP will generate a Pie Chart with the whole being total time worked, and each slice will be one of the 4 services with its allotted time.

**Extra Features:**

1. What additional data points should Bob be paying attention to as indicators of contractor performance?

**Proposed solution:**

* Bob has access to all the feedback submitted by clients for the same job type for different subcontractors. Bob can get a Pie Chart comparison between time spent / money charged and customer satisfaction.

**Extra Features:**

1. How can Bob use this application to market his services to new clients?

**Proposed solution:**

* Client can be sold into this app knowing that when he leaves home not only does he know what the subcontractor is doing, he can also leave feedback and check on the job progress.

**Extra Features:**

1. How can Bob use this application to present value to his existing clients?

**Proposed solution:**

* Client has access to before and after pictures, he can leave feedback for the whole job as well as leaving written remarks.

**Extra Features:**

1. What technology(s) can be leveraged to further eliminate opportunities for fraudulent charges?

**Proposed solution:**

* GPS, Picture with geolocation.

**Technologies Proposal**

1. Login from Facebook API, easy on the clients/subcontractors since everyone will have a FB account.
2. Time Card – JavaScript built timer
3. Geolocation, GPS – HTML5
4. Picture taking – HTML5
5. Graph and Pie Chart – CSS3
6. Web APP responsive – Sass, Compass and Susy 2
7. Database and backend – PHP/MySQL

The end