

Trevor Baker	We Wash Cars
V00788158	Wash My Car
January 7th	1.0

Version	When	Who	What
1.0	January 7 th	Trevor Baker	Initial Drafting

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1.0 Problem description / expression of need

The first automatic car wash was produced in 1946. Their convenience over manually sponge washing your own car caused them to become commonplace at gas stations. However, car washes can waste a lot of water and not clean as well as a manual wash. The next evolution of car washing needs to combine the convenience of an automatic car wash and the quality and environmental friendliness of a hand wash.

We are looking for a developer to create an app which allows car owners to, when parked (at a mall or otherwise), receive a notification offering a car wash. If they should accept, their car will be washed by the time they return, and automatically charge their credit card. For the company's car washers, the app will automatically prioritize cars based on location so that they can efficiently clean all the cars. The company's manager should be able to set up car wash locations and link car washers to locations.

2.0 Project Objectives

1. Investigate feasibility of car washing app
2. Build a prototype app for users, car washers (management app can come at a later stage)
3. Investigate possible monetary models and APIs
4. Make app compatible with all mobile devices, i.e. Android, iOS, and Windows Phone

3.0 Current System(s)

Currently, the car washing is managed individually by each car washer. They have to walk around the entire parking lot soliciting car washes. They have to manually prioritize vehicles. There is no IT system.

4.0 Intended users and their interaction with the system

User - They will use their phone's location to request a car wash for their car/location
 Car washer - They will be notified of which car they should wash
 Administrator - The admin will set up car wash locations and assign car washers to them

5.0 Known interaction with other systems within or outside the client organization

1. Google Maps integration
2. Mobile phone location API

6.0 Known constraints to development

1. Accuracy and availability of GPS in parking lots, particularly those underground
2. Short time frame (3 months, part-time)

7.0 Project Schedule

January 15th - Project start

January 21st - Website live and initial specifications

February - Submit specifications, review, and continually update

March 3rd - Prototype demo

Mid March - More specifications review and finalization

March 29th - Final specifications and demo

8.0 Project team

Project Manager

Web Developer

Business Analyst

Technical Analyst

Technical Writer

9.0 Glossary of terms

My Résumé

Trevor Baker V00788158

Project management experience

- Created and hosted a 48 hour hackathon
- Led several group projects in HINF program

Writing experience

- Presented weekly at the Web Development club

Webmaster experience

- Proficient in HTML5, JavaScript, CSS
- Experience with PHP and databases
- Developed with a team to create an EHR application

Software tool expert

- Web-driven automated tests (Selenium, Webdriver IO)
- Unit tests (mocha, jasmine)
- Experience with node.js

Programming skills

- Proficient at JavaScript
- Skilled with PHP, SQL
- Some experience in Java, C, Python

Design experience

- Some experience with Microsoft Visio and Adobe Photoshop

Requirements engineering experience

- Experienced with programming to requirements, unit testing, automated testing, and test tracing