Software Requirement Specification for Shopping Route Recommender

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1 Introduction

- 1.1 Purpose
- 1.2 Document Conventions
- 1.3 Intended Audience and Reading Suggestions
- 1.4 Project Scope
- 1.5 References

2 Overall Description

2.1 Product Perspective

The Shopping Route Recommender is an application used by consumers to maximise their shopping experience in terms of three preferred optimisations: minimum cost, travel distance and travel time. The consumer is able to log onto a Website or Smartphone application and create a shopping list with a route being generated. Enabling a user to optimise their shopping experience is a potential success from the start, as their daily routines can become more efficiently and effectively undertaken.

2.2 Product Features

- Interactive shopping list menu.
 - add or remove item
- Interactive optimisation selection options.
 - minimise cost
 - minimise travel time
 - minimise travle distance
- Interactive shopping area selection options.
 - select from a number of suburbs or regions
- Interactive route map displaying alternate routes for selection.
 - rotate map
 - slide map

- zoom in/out
- satellite view

The aim of the application is to be as user friendly and interactive as possible, while maintaining an easy-to-use interface.

2.3 User Classes and Characteristics

The application is aimed for the general public's use as well as certain business industries.

- General Public
 - General population wanting to buy their routine shopping list
 - General population looking for more specific products and their preferred optimised route
 - Foreign individuals looking for their ideal shopping locations or travel routes
- Business Industries
 - Courier companies collecting stock or products from various distributors/stores

2.4 Operating Environment

Shopping Route Recommender is an application designed to run on the most Web Browsers as well on Google Android and Mac OS X Smartphones.

- Software Requirements
 - Internet connectivity
 - Entry level Smartphone
 - Mozilla Firefox, Microsoft Edge, Google Chrome, Microsoft Explorer, Safari
- Hardware Requirements
 - Entry level Smartphone with interactive touch screen
- 2.5 Design and Implementation Constraints
- 2.6 User Documentation
- 2.7 Assumptions and Dependencies

3 System Features

- 3.1 System Feature 1 -
- 3.2 System Feature 2 -
- 3.3 System Feature 3 -

4 External Interface Requirements

- 4.1 User Interfaces GUI
- 4.2 Hardware Interfaces
- 4.3 Software Interfaces
- 4.4 Communications Interfaces

5 Other Non-functional Requirements

- 5.1 Performance Requirements
- 5.2 Safety Requirements

- 5.3 Security Requirements
- 5.4 Software Quality Attributes
- 5.5 Other Requirements

References

[1] Fluid Switch. *Airplane Fule Gauges: How they Work, Challenges, & Solutions*. Fluid Switch. URL: http://www.fluidswitch.com/blog/airplane-fuel-gauges/. [Accessed: February 15, 2016]