

**Computer Science and Engineering Go Shopper**

# Business Specification - Version 1

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* Team Number: C8
* Team Members:

|  |  |
| --- | --- |
| **Names** | **E-mails** |
| Datta Sainath D | dsd298@nyu.edu |
| Harsh Yadav | hy1217@nyu.edu |
| Shearyar Shamim Khan | ssk482@nyu.edu |
| Jayesh Punjaram Patil | jpp421@nyu.edu |

**Revision History**

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| **Date** | **Version** | **Description of Change** |
| 10/11/2016 | 1.0 | Initial Document |

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2. INTRODUCTION
   1. **Purpose**

The purpose of this project is to save money and time for people who take lot of pain to buy groceries from different stores or end up paying an exorbitant amount by buying overpriced goods. Often, the consumers are not able to find all the groceries at the same place. Thus there is a need for an application that could inform customer (user) where the items in his list are available (Location of store) and also list its price. That way people could select which store they should be visiting for economical purchases. There are quite a few services and apps like Gasbuddy, Google Express, and other grocery store specific websites, which allow people to go through their list of items and buy them. Google express is even in the business of delivering these items as well. However, this application will be streamlined to use those services as well as develop an algorithm in this application for economical purchases.

1. **SCOPE**

|  |  |
| --- | --- |
| **The product can be used to** | **The product cannot be used for** |
| Provide interface for the user | No guarantee of Safety of Food Items |
| Provide interface for Store Owners | Items besides groceries |
| Update database by Store Owners | Stores that are not included in the application |
| Cataloging items with Prices and Stores |  |
| Personal User Profiles |  |
| Delivery Services |  |
| Discounts |  |
| List Prices from cheapest to most expensive and Stores in which it is available |  |

* 1. **Identification**

This is version 1.0 of Go Shopper Business Specification

Any major functional change in the documentation will be marked as X.0 (Example: 1.0, 2.0, 3.0)

Any minor functional change in the documentation will be marked as 1.X(Example: 1.1, 1.2, 1.3)

* 1. **Bounds**

Following are the bounds for the system:

It provides interface for users, store owners, and deals and discounts.

It provides database management for stores owners.

Delivery options for customers.

Directions for customers to the store.

* 1. **Objectives**

The main objective of this application is provide people with cheap groceries which are available around their local neighborhood and at the same time save the time that involved in buying groceries. This application is similar to various other applications like Gasbuddy, Amazon, and other web based shopping websites. In the other applications there is no option for searching a grocery store near the customer’s location which could satisfy the customer’s need. For example, Amazon does not provide groceries to people. Also, it does not provide a way through which people can compare prices of the same grocery at different stores. Also, the application Gasbuddy is based on gas. It tells people about nearby gas stations, but does not provide the prices of gas at that station. Therefore, the main objective of this project is to satisfy the grocery need of people and at the same time save their money and time.

**Deliverable Dates:**

|  |  |
| --- | --- |
| **Deliverables** | **Date** |
| Project Proposal | 10-6-2016 |
| Project Business Requirements | 10-20-2016 |
| Project Requirements | 11-10-2016 |
| Project Analysis | 12-01-2016 |
| Presentation | 12-08-2016 |

* 1. **System Overview**

The application helps the customers buy economic groceries from the stores near their location. The customers have to make a list of all the groceries that they want and based on that list, a list of all the nearby stores will be generated with the product name and its cost. The user will then be able to select a particular grocery store from the list of stores shown on the screen in the order of increasing distances from the user’s location. The selected grocery store will display the user the items sold by that particular grocery store. If the user is interested to buy any item, he can add the item directly into the cart. After adding all of his interested items into the cart, he will be given an option to checkout (for premium users) or to navigate him to that desired store to pick up his items.

The premium customers will be asked to choose to which location the items are to be delivered. Then, he will be directed to a secured payment gateway to enter his/her credit card number. The delivery of goods is done by company-employed deliverymen. This application will also have a separate tab, which contains any special discounts on products that are listed by the nearby grocery stores through this application.

Another major feature of this application is to intelligently list the desired items of the user from different grocery stores nearby to minimize the overall cost of the all the products put together. The list of items wanted by the user is written in a specific page of the application by the user. When the user is interested to buy those products, this application runs an algorithm which compares the rates of all the items provided by the user and shows the items that are present in different stores with the minimum cost.

1. BUSINESS REQUIREMENTS
   1. **Technology**

The application will enable the customers to buy the groceries at economical prices and also it will guide them to buy those items. In addition, the customers will also be able to get the products delivered to their home. This will also help the stores to sell more items as the people living near those stores will be guided to those stores to buy the items.

* 1. **Economics**

Minimum features of the app are free and advanced features like delivery services will be available for premium users who pay additional amount to get a premium membership for one year.

* 1. **Regulatory and Legal**

Contracts with stores and retail chains.

* 1. **Market Considerations**

Improves the overall quality of middle income people.

People can buy quality products from nearby stores at economical prices.

People can get access to particular products from nearby stores.

* 1. **Risks and Alternatives**

Business Risk: When users show less interest to sign up as a premium customer.

Probability: It is less probable as the customers would have a free delivery option if they are premium customers and also they can frequently order items as per their need.

How discovered: Product Analysis before launch.

Responsible Party Status: Yet to be discovered.

Mitigation Plan: Deals will be first available to premium customers and free delivery option.

Operational Risk: When the stores are not ready to share their database.

Probability: It is less probable as the stores would want to draw more attention through this application.

How discovered: Discovered when the store owners hesitated to share database, but later on they were convinced to share it.

Responsible Party Status: They are ready to share their data.

Mitigation Plan: We will also display sponsored deals on the homepage related to a particular store.

Technology Risk: Threat to user’s personal information such as saved credit card and other details.

Probability: Less probable.

How discovered: General problem related to payment systems in technology.

Responsible Party Status: Software modelling.

Mitigation Plan: We shall provide secure gateways.

Economic Risk: The stores that are not part of the application provide better quality product more economically.

Probability: Less probable.

How discovered: Analysis.

Responsible Party Status: Neutral.

Mitigation Plan: We shall get as many stores online as possible

* 1. Human Resources and Training

We need not train people in the initial phase of the product. Later, depending on the market demand we can set up our own delivery service or outsource it to third party service. We will need to train people if we set up own delivery service.

1. **Context Diagram**

High-level context diagram identifying system boundaries

