System Requirements Specification

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Intro:
The purpose of this SRS is to describe and present a detailed description of the (grocery website name?) web service. The purpose, features, interfaces and constraints under which it must operate will be explained in this document. The web service will be built on a combination of Bootstrap, Django, and MySQL.

Intended Audience:
This document will be for the eyes of whoever has stakes in the final result of this software. This document is intended for the software developers of this software service and the buyer. This document is meant for the software developers and buyers to have an agreement on paper for what the service will look like as an end result. The software developers will use this as a guideline for what they will need to create to fulfill the requirements of the buyer. The buyer will use this document to make sure the software developers follow along the agreed upon guidelines.

Scope:
This product will be a web grocery delivery service named :(name of our product). The main function of this product will be allowing a user to purchase groceries from nearby grocery stores and have them delivered to the user's address. This service will basically be the middleman between grocery stores and customers. The overall goal of this service is to provide a delivery service that is easy to use for the user so they are able to purchase groceries without having to physically go to the grocery store.

Approach:
This grocery delivery service will be built on using the following technologies: Bootstrap for our front-end, Django for the middleware, and mySQL for the back-end. The web host provider will be hosted by Amazon Web Services.

Functional Requirements

Users will be able to browse and purchase items from local grocery stores in their selected areas. Users will have the option to have these items delivered to their home or have the store prepare the items for pickup. The web application will have the following functionalities:

- Personal Profile

    o   Users have the option to shop as a guest or create their own profile.

    o   Users who create a profile will be able to streamline the checkout process.

    o   Users will be able to save their address(es), credit card information, favorite items, and lists of frequently bought items.

    o   Users who have favorited items or a 'list of frequently bought items' can choose to be notified when a grocery store near them has these items on sale.

- Shopping Cart

    o   Shopping cart will be used to keep track of items the user wants to purchase

    o   Users can add or delete items from their shopping cart

    o   Users with profiles can easily select favorite items or quickly add items from their 'lists of frequently bought items' into their shopping cart

    o   Users will be given an estimated time of completion for the order to be fulfilled depending on whether they choose delivery or pickup.

    o   Users can choose to pay cash, debit/credit card. (supported cryptocurrencies?)

- Order Status

    o   Users can keep track of placed orders.

    o   Users will be able to get updated estimated time of completions for their order.

    o   Users who choose the pick-up option can be notified the amount of time in advance it will take them to drive from their current location to the selected grocery store when their order is available for pick-up

    o   Users who choose the delivery option will be notified when their order is on its way

    o   Users who choose the delivery option will be provided a geolocation of the delivery driver until they reach their destination.

    o   Users will be notified when their delivery driver is a couple minutes away from their destination.

· Local Grocery Stores

o   Users will enter the site and be asked for their permission to get their current location or to enter in a zip code.

o   Users who do not enter their current location or zip code will be given grocery stores in the Los Angeles area by default.

o   Users can browse all items in a specific grocery store.

o   Users can search for a specific item to find grocery stores with that specific item.

o   Users can have the option to compare prices of specific items with other grocery stores nearby.

o   Users can easily find which grocery stores are having sales on frequently bought items in their area.

o   Grocery stores will be available during its hours of operations and if grocery stores are closed, users can schedule a delivery.

Non-Functional Requirement:

Security

o   The system must automatically log out all customers after a period of inactivity.

o   The system's back-end servers shall only be accessible to authenticated administrators.

 Availability

o   The system should not lose any transaction data.

o   The system must be available 24 hours per day. 360 days per year.

o   The system should be available at all times, meaning the user can access it using a web browser, only restricted by the down time of the server on which the system runs.

o   The system must login a customer within 5 seconds.

o   The system must accept payment and raise an order within 5 seconds in 95% of cases.

Portability

o   Any system using any web browser should be able to use the features of the system, including any hardware platform that is available or will be available in the future.

o   The system must run on PC, and Laptops etc.