Predictive Shopping App Project Requirements  
(Rev. 1.00)

Group 3:

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**Topic**

This project entails creating a shopping app that continually stores shopping details for recurring items. This database of shopping items is regularly and algorithmically analyzed to predict when items will need to be purchased again to replenish stock. The user may specify which items are to be categorized as *recurring* or *non-recurring* so as not to advise the purchase of items that were meant as one-time purchases. This program will be able to generate a shopping list for both specified shopping trip intervals, as well as a list for special shopping trips in order to optimize shopping trips, while reducing the chance wasted trips. For the time being, this project will be limited in scope to a website.

**Requirements**

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| **Requirement #** | **Description** |
| 1 | Development software such as a text and web editor. |
| 2 | Github will be required throughout this project for version control. |
| 3 | Web hosting will be required to fulfill project plans. |
| 4 | This program will have a user interface to interact with stored data. |
| 5 | This program will require a backend database to store purchase and user details. |
| 6 | This program will allow the user to generate a shopping list for regular interval trips as well as special trips. |
| 7 | This program will enable the user to email lists to themselves from the website. |

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Project Requirements:

* Front-end development
  + User interface. The expected user interface for this project at this time is a website-based graphical user interface (GUI). The expected functionality would include a form for adding shopping data to the database as well as an interactive form for reading out shopping lists and metrics to the user.
* Back-end development
  + The back-end would include the database to store necessary details