Predictive Shopping App Project Plan  
(Rev. 1.00)

Group 3:

Tyler Roland, Ashraya Regmi, Matthew Stevenson, Jesse Cruse

University of Maryland University College

CMSC 495

28 May 2017

1. **Requirement Specifications**

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.

1. **System Specification**

This project is largely a web-based development project that will only require an internet connection and a web browser to operate. Since this project will not execute any program on any local machine, there are no special computer hardware considerations for this project aside from the notes below.

* 1. For the web development portion of this project, a text editing software application will be required. There is no standard for this and each team member may elect their favorite editor because it will not affect the outcome of this project.
  2. The text editor of choice should be compatible with SQL and PHP scripting for development and manipulation of the stored data.

1. **Software Management**

This team will utilize a class project-oriented Github group for content management and version control purposes.

1. **Project Schedule**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task** | **Duration** | **Start Date** | **End Date** | **Personnel** |
| 1. Project Requirements | 7 | 5/29 | 6/4 |  |
| * 1. Writing | 1 | 5/28 | 5/29 | Jesse |
| * 1. Self-Review | ? | ? | ? |  |
| * 1. Revise Document for submission | 6 | 5/30 | 6/4 |  |
| 1. Project Analysis | 7 | 6/5 | 6/11 |  |
| 1. Analyzing | 7 | 6/5 | 6/11 |  |
| 1. Self-Review | 7 | 6/5 | 6/11 |  |
| 1. Revise document for submission | 7 | 6/5 | 6/11 |  |
| 1. Project Design | 7 | 6/12 | 6/18 |  |
| 1. Project plan and ICD | 7 | 6/19 | 6/25 |  |
| 1. Implementation and Testing |  |  | 7/9 |  |
| 1. Final deliveries (Code, binaries, test data, user guide) |  |  | 7/14 |  |