Predictive Shopping App Project Plan  
(Rev. 1.01)

Group 3:

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CMSC 495

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# Revision History

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| --- | --- | --- | --- |
| **Revision** | **Date** | **Editor** | **Description of Changes** |
| 1.00 | 5/28/2017 | Jesse Cruse | Original Document |
| 1.01 | 7/8/2017 | Jesse Cruse | * Updated topic * Revamped System Specification section * Completed Project Schedule Table * Added revision table |

1. **Requirement Specifications**

This project entails creating a shopping app that continually stores shopping details, such as individual item ID and description, and purchase dates every time each item is purchased. This database of shopping items is algorithmically analyzed to predict when items will need to be purchased again to replenish stock by calculating the standard deviation of purchase dates for each item, when the user requests a new list, and adding each item if it is expected to require replenishing. This program will be able to generate a shopping list whenever the user requests a new list to be generated, via a simple button on the respective users account. For the time being, this project will be limited in scope to a website that can be viewed via any browser be it mobile or not. All required data, such as user login credentials and the users’ repository of stored shopping item details will be stored within a MySQL database that will be accessed via frontend and backend coding.

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. The development system should have at the minimum an Intel Pentium III or equivalent, 512MB of RAM, 750MB of free system disk space. The operating system should be Windows Vista SP1/Windows 7 or newer. Also required are Netbeans IDE 8.0.2 or newer, and Java JRE 7 or newer.
  2. The only requirement for the operating platform is a web browser. There are no special rendering or processing requirements, so the native browser already installed on the device (e.g. Chrome, Safari, Firefox, Opera, Internet Explorer, etc.) will suffice. It is recommended that the browser of choice be updated to its respective latest version.

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 (Days)** | **Start Date** | **End Date** | **Personnel** |
| 1. Project Requirements | 7 | 5/29 | 6/4 |  |
| * 1. Writing | 1 | 5/28 | 5/29 | Jesse |
| * 1. Self-Review | 2 | 6/3 | 6/5 | Ashraya, Matt, Tyler |
| * 1. Revise Document for submission | 6 | 5/30 | 6/4 | Ashraya, Matt, Tyler |
| 1. Project Analysis | 7 | 6/5 | 6/11 |  |
| 1. Analyzing | 7 | 6/5 | 6/11 | Ashraya |
| 1. Self-Review | 7 | 6/5 | 6/11 | Jesse, Matt, Tyler |
| 1. Revise document for submission | 7 | 6/5 | 6/11 | Ashraya, Jesse, Matt, Tyler |
| 1. Project Design | 7 | 6/12 | 6/18 | Matt |
| 1. Project plan and ICD | 7 | 6/19 | 6/25 | Ashraya, Jesse |
| 1. Implementation and Testing | 7 | 7/3 | 7/9 | Jesse, Ashraya, Matt, Tyler |
| 1. Final deliveries (Code, binaries, test data, user guide) | 7 | 7/10 | 7/14 | Jesse, Ashraya, Matt, Tyler |