**Software Requirements**

**Specification**

**for**

**Southmansfield**

**Version 2.0approved**

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**Team AFKD**

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**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
|  |  |  |  |
| Daveson Romblon | October 23,2016 | Created the document | 1.0 |
| Daveson Romblon | December 4, 2016 | Updated the document | 1.1 |

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**1. Introduction**

This section gives a scope description and overview of everything included in this SRS document. Also, the purpose for this document is described and a list of abbreviations and definitions is provided.

**1.1 Purpose**

The purpose of this document is to give a detailed description of the requirements for the “Southmansfield Inventory System”. It will illustrate the purpose and complete declaration for the development of the system. It will also explain the required tool with other external applications. This document is primarily intended to be proposed to a customer for its approval and a reference for developing the first version of the system for the development team.

**1.2 Document Conventions**

*<Describe any standards or typographical conventions that were followed when writing this SRS, such as fonts or highlighting that have special significance. For example, state whether priorities for higher-level requirements are assumed to be inherited by detailed requirements, or whether every requirement statement is to have its own priority.>*

* *Order Item*

When clicked, user will be directed to the page where he/she will select the item to be ordered.

* *View Item*

**1.3 Intended Audience and Reading Suggestions**

This documents is intended for the Administrator and the User of the School in Southmansfield College. The rest of the Software Requirements Specification documents contains the overall description of the product suck as its functions and user classes, the external requirements of the product which explains the walkthrough of the product and how the product came to be, and also all other requirements the product needs for its functionality.

**1.4 Product Scope**

The scope of work for the Inventory System Project includes all the required modules: ordering, inventory, and reporting. The Inventory System should contain the item descriptions, and complete inventory reports required by the client. The team AFKD will be responsible for analyzing, designing, and building the Inventory System. Each added feature in the prototype should be approved by the Team’s adviser. The systems developer and systems designer ensures that each requirement would be met, and should each requirement would be tested.

**1.5 References**

1. Southmansfield. *Vision and Scope document*,

http://projects2.apc.edu.ph/wiki/index.php/Project\_-\_Southmansfield\_-\_115#Scope\_and\_Limitations

1. Southmansfield. *Wiki Page*,

<http://projects2.apc.edu.ph/wiki/index.php/Project_-_Southmansfield_-_115>

1. Southmansfield. *Change Management Plan*
2. Southmansfield. *Quality Plan*

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**2. Overall Description**

**2.1 Product Perspective**

The Southmansfield Inventory System is a new system that replaces the current manual and inventory processes for the ordering and delivering of items in the school. The system is expected to evolve over several releases, ultimately connecting to the Internet ordering services

**2.2 Product Functions**

With the web-based application, the users will have to log in their school account and be able to order for the required items. The result will be based on the criteria of the user inputs. There are several search criteria and it will be possible for the admin of the system to manage the options for those criteria that have that. The result of the supplies will be viewed in a list view, depending on what criteria included in the supply. The result for available items will also be viewed in a list view.

**2.3 User Classes and Characteristics**

There are three types of users that will interact with the system: users that will order items, the cashier that will manage the customers, and the administrator who will manage the supplies.

**2.4 Operating Environment**

The system will run and use programming languages: PHP, CSS, HTML. And the specific software that will be used is Yii2 Framework. For the web server Application: XAMPP Control Panel and for the Operating System it will be neither Windows7, Windows8, Windows8.1, Windows10.

**2.5 Design and Implementation Constraints**

http://www.cse.chalmers.se/~feldt/courses/reqeng/examples/srs\_example\_2010\_group2.pdf

*<Describe any items or issues that will limit the options available to the developers. These might include: corporate or regulatory policies; hardware limitations (timing requirements, memory requirements); interfaces to other applications; specific technologies, tools, and databases to be used; parallel operations; language requirements; communications protocols; security considerations; design conventions or programming standards (for example, if the customer’s organization will be responsible for maintaining the delivered software).>*

**2.6 User Documentation**

Other than this document, other documentations were also delivered for this product one of which is found in projects2.apc.edu.ph/wiki under CSPROJ2 projects. Status reports on changes happened to the product are weekly documented. Also, documents can also be found on GitHub.

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**2.7 Assumptions and Dependencies**

Since the product is available only to Southmansfield College, future updates will expand the product’s clients. When the system is integrated, continued maintenance ex also expands with the product’s scope. The product will be integrated in Southmansfield College’s system.

**3. External Interface Requirements**

**3.1 User Interfaces**

*<Describe the logical characteristics of each interface between the software product and the users. This may include sample screen images, any GUI standards or product family style guides that are to be followed, screen layout constraints, standard buttons and functions (e.g., help) that will appear on every screen, keyboard shortcuts, error message display standards, and so on. Define the software components for which a user interface is needed. Details of the user interface design should be documented in a separate user interface specification.>*

For the software to be used, the user must first login to the Southmansfield Website. If the user is the Administrator, he/she would be able to access all software control. He/she would be able to view the data necessary for viewing stocks and sales.

**3.2 Hardware Interfaces**

The hardware components used for the product is a “Dual Core CPU 2.0GHz” (Minimum required) processor and an 4GB RAM.

**3.3 Software Interfaces**

The product was created through a PHP framework called Yii2 (pronounced Yee), a cross-platform web server XAMPP, MySQL for the database, HTML, CSS, and PHP and all possible web browser that a user may use.

**3.4 Communications Interfaces**

The product is most likely to be used by the school’s old inventory system. Their website would be used in means of communication. Google Chrome, Mozilla Firefox, and Microsoft Edge are the most used browsers right n ow to which it might be used by the users of the product or the school itself. Since the products is integrated to the school’s website, it could only be accessed within school territory because intranet is used.

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**4. System Features**

Just like an ordinary inventory system, the product’s number one feature is fast and efficient ordering process because it’s an automated system. Other features include viewing of item available.

**4.1 Online Inventory System**

1. Description and Priority

This feature is the main priority of the product by which this is what the product do. Framework is used to manipulate the intended item to be ordered for each user of the school.

1. Stimulus/Response Sequences

The user must first review the necessary items to be bought. Once finished the user will tag which item will be ordered then the system will process it.

1. Functional Requirements

REQ-1: Criteria – these data are required in the system in order to generate the certain order.

REQ-2: TBD

**4.2 Viewing of Available Items and ordered items.**

1. Description and Priority

Admin may view the respective ordered items and for them to review so they may request needed supplies. This is high priority since the admin has the decision whether to view the ordered items or not but still necessary.

For the user, they may view the available items for their needs.

1. Stimulus/Response Sequences

When viewing is done, the user may order the item that is needed and gather it in the cashier.

**5. Other Nonfunctional Requirements**

**5.1 Performance Requirements**

The product should be able to provide the admin an accurate output of revenue, low stocks in inventory, orders, total items. For the employees, they can add available item to order and view items.

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**5.2 Safety Requirements**

All items must be properly picked/ordered to prevent a repetitive log-in that would waste time. The items provided must also be precise when it has been searched. This product highly gives importance to its criteria.

**5.3 Security Requirements**

The product is only for Southmansfield College’s Inventory System, all the information is kept in the system itself or the database. Only the Administrator can see these constraints like revenue, stocks, and items. The system will also be accessible within the school’s premises since the school’s website uses intranet.

**5.4 Software Quality Attributes**

The product has an easy process, all the admin needs are the important data that shall be requested for the supplier. The product is only available to Southmansfield College’s Inventory System. But the developments will further push the product to the other system if they have any. Maintenance is necessary since updates usually happens after the course of months.

**5.5 Business Rules**

* The Administrator must update the database (available items), stocks, revenue, and orders.
* The Employee can only add items and view items.

**6. Other Requirements**

Other requirements for the product is yet to be announced but we update the database for new orders or the admin can do it. Even though the product is limited only within the school’s premises we are aiming to have it accessible outside the school.

**Appendix A: Glossary**

**Appendix B: Analysis Model**

**Appendix C: To Be Determined List**