

**COT 6931 Software Requirements Specification**



Food Giant Sales Flyer Generator

# Revision History

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| --- | --- | --- |
| Revision # | Date | Changed Items |
| 1 | 02/26/2017 | Initial Document Creation |
| 2 | 03/04/2017 | Updated Requirement 2.2 from review with Stakeholder |
| 3 | 03/15/2017 | Fixed Layout and Grammatical issues |
| 4 | 03/25/2017 | Removed ASPX requirement in section 1.4 with generic flyer template wording. Added more details to section 2.2 |
| 5 | 3/26/2017 | Moved 3.3 requirement to section 4. More rewording. |
| 6 | 04/15/2017 | Added more SRS Items post client review on 04/14 |

# Overall Software Requirements

Food Giant requests that their district and store managers can generate flyers based on items they currently have in stock and print these items as a store flyer. They want the ability to add new items as they get them in stock. Also, the district managers want to be able to view all saved flyers.

# Software Requirements

## SRS001

Allow a district or store manager to connect to a server containing a user-driven program that will generate a custom Food Giant Flyer by selecting from multiple template types and from the current Food Giant inventory

### Sub Requirement 1.1

The Food Giant Flyer Program will be deployed to and exist on a Virtual Machine hosted by using Microsoft Azure. This program will contain different functionality based on the user permissions for Store Managers and District Managers

#### Sub Requirement 1.1.1

The Virtual Machine shall read in the Manager’s permissions using Windows Domain Services and only allow them to access certain parts of the program based on these permissions

#### Sub Requirement 1.1.2

The Food Giant Flyer program shall record the Manager’s login name so their actions can be logged throughout the program and database. Important for requirement 1.3.1

#### Sub Requirement 1.1.3

Verify program is accessible from any computer and handles invalid login information gracefully

### Sub Requirement 1.2

Create a user-driven Flyer Creator program to allow any manager to select from all existing Food Giant items to generate a store flyer template

#### Sub Requirement 1.2.1

Flyer Creator Page should send data to a user-selected flyer template page

#### Sub Requirement 1.2.2

Flyer Creator Page should allow the Manager to preview existing flyer templates before creating a flyer

#### Sub Requirement 1.2.3

Flyer Creator Page should allow the Manager to select a “While supplies last” and/or a “No rainchecks given” option.

#### Sub Requirement 1.2.4

Flyer Creator Page should allow the Manager to select anywhere from one to fifteen items used for the Generic Flyer

### Sub Requirement 1.3

All created flyers should auto save when the manager decides to save the flyer or print it, allowing a District Manager to view this flyer

#### Sub Requirement 1.3.1

Create a Flyer History program to allow a District Manager to select from and view created flyers

#### Sub Requirement 1.3.2

The Flyer History program shall only be accessible by a District Manager

#### Sub Requirement 1.3.3

View Created Flyer Page should inform the district manager of which Manager created the flyer and what date it was created

### Sub Requirement 1.4

Create a generic flyer template page that will take data entered from the Flyer Creator Page to populate items

#### Sub Requirement 1.4.1

Implement a simple print program that can print the completed flyer out to a printer or pdf file for future use

#### Sub Requirement 1.4.2

Manager will have the ability to edit the price field in the generic flyer template after it is generated

## SRS002

The Food Giant Flyer Generator program shall use a SQL database

### Sub Requirement 2.1

The database must contain categorized Food Giant Inventory items containing a category and image name field with up to 1-3 associated image name(s). Links with SRS Item1.2.4

### Sub Requirement 2.2

Database should keep list of saved Flyer pages and store data by Manager id. Links with SRS Item 1.3.2

### Sub Requirement 2.3

Database Interface class shall be created for all C# classes to send queries to the database. This class shall be the only way for these classes to communicate to the database

### Sub Requirement 2.4

Implement the functionality for a division manager or division manager’s assistant to add more items to the database

#### Sub Requirement 2.4.1

Create a user-driven Database Maintainer class that will simplify the process for a manager to add in new Food Giant Inventory items

#### Sub Requirement 2.4.2

The Database Maintainer class shall only be accessible by a District manager or District manager assistant

#### Optional Requirement

Create a search program that could allow store managers to search the database for certain items instead of scrolling through the entire large list of items. (Database search should already exist so this may just be a small section in the user guide)

## SRS003

The Food Giant Flyer Creator program will contain a “Program Selector” class which will instantiate on startup and allow a District Manager to select which program they wish to run. If they are a Store Manager, the Flyer Creator program will start by default, skipping this window.

### Sub Requirement 3.1

The Program Selector will only be run once the program validates the Manager’s credentials discussed under SRS Requirement 1.1.1

## SRS004

Create a User Guide for the Food Giant Flyer program

### Sub Requirement 4.1

User Guide must explain how to maintain and add items to database

### Sub Requirement 4.2

User Guide must explain how to create a flyer

### Sub Requirement 4.3

User Guide must explain how to add new templates

### Sub Requirement 4.4

User Guide must explain how to maintain source code

### Sub Requirement 4.5

User Guide must explain how to handle login credentials

### Sub Requirement 4.6

Create a list of mandatory client machine requirements required to connect to the server hosting the Food Giant Flyer Generator program

# Terms of Reference

|  |  |
| --- | --- |
| Term | Definition |
| ASP.NET | Active Server Pages |
| ASPX | Active Server Page Extended |
| C# | C-Sharp Programming Language |
| GUI | Graphical User Interface |
| MVVM | Model View View-Model |
| QA | Quality Assurance |
| SDD | Software Design Description |
| SLN | Visual Studio Solution |
| SPMP | Software Project Management Plan |
| SQL | Structured Query Language |
| SRS | Software Requirements Specifications |
| STD | Software Test Document |
| VS | Visual Studio |
| XAML | Extensible Application Markup Language |