**CIS 470 Project Requirements Specification**

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| **Date:** | **5/15/16** |
| **Project Title** | **Williams Specialty Company eCommerce Web Site** |

# System Overview - Latisha

To allow Williams Specialty Company customers to register and login the system to scan through the online catalog, place and update orders and access the shopping cart. The employees will have the same access as customers with the exception of being able to send a notification that the order was accepted or rejected.

The system will have the following functionality:

1. Order request information can be initiated, altered, stored or redeemed.

2. Catalog information can be initiated, altered, stored or redeemed.

3. Purchase order information can be initiated, altered, stored or redeemed.

4. User access information can be initiated, altered, stored or redeemed.

5. Customers will be able to submit an order request into the database.

6. Customers will be able to pull up order request information.

7. Operations managers/employee will be able to retrieve from the database order information.

8. Operations managers/employee will be allowed to validate the purchase order.

9. Operations managers/employee will be allowed to close out the print request.

10. Customer will be allowed to update their personal and billing information.

# Methodology Description

We are going to be using the Agile methodology. Agile is a development process that helps to promote an adaptive style of development. It works in iterations, with constant improvements happening during the development process. The goal is to provide quick time lines and work delivered with efficiency.

# Requirements

WSC requires that the users will be able to access the e-Commerce website

with a login and then be able to view the catalog in order to make purchases.

When the user logins into the website for the first time they will be able to

create an account and enter orders which will allow the sales person to

contact them and make sales and shipping arrangements in order to validate

the request.

Once an order has been entered it can be accessed, modified, and stored

within the system associated to the user. The sales people have access to

the orders and users and can update both as needed.

## System Hierarchy

Visual Studio -Development IDE C#

Master Pages and Templates

MySQL – Database

CSS (SCSS), JavaScript (JQuery)

## Requirement 1

Basic wireframe – GUI

* Login
* Catalog
* User Information
* Order Request
* Purchase Order

Naming Convention

Business logic

* Order Request Information
  + New order request information
    - Make sure that the user has the permission to be doing this
    - Validate the information that was entered to make sure that it fits all required fields and that the information that has been entered is not false.
    - Send the information to the database creating a new entry of information.
    - Have a message inform the user that a new entry has successfully been put into the database.

If (all fields are correct)

Send all information to the database

Output message that the information has been created into the database

Else if (any field is not filled in correctly)

Output a message listing what fields are not correct.

* + Search order request information
    - Make sure that the user has the permission to be doing this
    - Search the database for a specific order
    - Put out a message if an order is not found
    - Fill in all fields with the correct information if an order is found

SELECT all fields requested FROM needed tables WHERE matches the search field

Set each field to the correct text field

* + Update order request information
    - Make sure that the user has the permission to be doing this
    - This will be available after a search has been already done
    - Change an fields that need to be changed
    - Validate that the information that is changed is valid.
    - Update that order information in the database

If (all fields are valid)

UPDATE table

SET what information needs to be changed

WHERE specifying the selected order information

Else if (information is not valid)

Output a message indication what in not correct and what needs to be fixed because the information can be updated.

* Catalog Information
  + New catalog information
    - Make sure that the user has the permission to be doing this
    - Validate the information that was entered to make sure that it fits all required fields and that the information that has been entered is not false.
    - Send the information to the database creating a new entry of information.
    - Have a message inform the user that a new entry has successfully been put into the database.

If (all fields are correct)

Send all information to the database

Output message that the information has been created into the database

Else if (any field is not filled in correctly)

Output a message listing what fields are not correct.

* + Search catalog information
    - Make sure that the user has the permission to be doing this
    - Search the database for a specific catalog information
    - Put out a message if the catalog information is not found
    - Fill in all fields with the correct information if catalog information is found

SELECT all fields requested FROM needed tables WHERE matches the search field

Set each field to the correct text field

* + Update catalog information
    - Make sure that the user has the permission to be doing this
    - This will be available after a search has been already done
    - Change an fields that need to be changed
    - Validate that the information that is changed is valid.
    - Update that catalog information in the database

If (all fields are valid)

UPDATE table

SET what information needs to be changed

WHERE specifying the selected order information

Else if (information is not valid)

Output a message indication what in not correct and what needs to be fixed because the information can be updated.

* Purchase order Information
  + New purchase order information
    - Make sure that the user has the permission to be doing this
    - Validate the information that was entered to make sure that it fits all required fields and that the information that has been entered is not false.
    - Send the information to the database creating a new entry of information.
    - Have a message inform the user that a new entry has successfully been put into the database.

If (all fields are correct)

Send all information to the database

Output message that the information has been created into the database

Else if (any field is not filled in correctly)

Output a message listing what fields are not correct.

* + Search purchase order information
    - Make sure that the user has the permission to be doing this
    - Search the database for a specific purchase order
    - Put out a message if a purchase order is not found
    - Fill in all fields with the correct information if a purchase order is found

SELECT all fields requested FROM needed tables WHERE matches the search field

Set each field to the correct text field

* + Update purchase order information
    - Make sure that the user has the permission to be doing this
    - This will be available after a search has been already done
    - Change an fields that need to be changed
    - Validate that the information that is changed is valid.
    - Update that purchase order information in the database

If (all fields are valid)

UPDATE table

SET what information needs to be changed

WHERE specifying the selected order information

Else if (information is not valid)

Output a message indication what in not correct and what needs to be fixed because the information can be updated.

* User access information
  + New user access information
    - Make sure that the user has the permission to be doing this
    - Validate the information that was entered to make sure that it fits all required fields and that the information that has been entered is not false.
    - Send the information to the database creating a new entry of information.
    - Have a message inform the user that a new entry has successfully been put into the database.

If (all fields are correct)

Send all information to the database

Output message that the information has been created into the database

Else if (any field is not filled in correctly)

Output a message listing what fields are not correct.

* + Search user access information
    - Make sure that the user has the permission to be doing this
    - Search the database for a specific user
    - Put out a message if a user is not found
    - Fill in all fields with the correct information if a user is found

SELECT all fields requested FROM needed tables WHERE matches the search field

Set each field to the correct text field

* + Update User access information
    - Make sure that the user has the permission to be doing this
    - This will be available after a search has been already done
    - Change an fields that need to be changed
    - Validate that the information that is changed is valid.
    - Update that user access information in the database

If (all fields are valid)

UPDATE table

SET what information needs to be changed

WHERE specifying the selected order information

Else if (information is not valid)

Output a message indication what in not correct and what needs to be fixed because the information can be updated.

* Customer order request
  + Make sure the customer log in information is valid and they are allowed to do a order request
  + Validate the information they have entered into the order request making sure all information is correct
  + Send the information to the database
  + Put out a message that the information has been submitted and output a order number that they should keep

Page load (only show information if the customer user information is correct and has that privilege)

Submit button

If (all fields are valid)

Send information to the database

Output a message that the order request has been submitted and output the order request number so they have proof

Else if (any field is not valid)

Output a message with what fields are not correct

* Customer retrieve order request information
  + Page load make sure that the customer credentials are valid
  + Put in order request ID into a search
    - If the order request ID is valid put display the information
    - If the order request ID is not valid put a message out informing the user the ID number is not in the system
  + Customers will not be able to edit the order request information after it has already be submitted.
* Operations manager retrieve order information
  + Page load validate operation manager credentials
    - If the credentials are not for operation manager do not make operation manager functions available.
  + Able to pull up order information with a larger search parameter
* Operations manager validate purchase order
  + Page load validate operation manger credentials
    - If the credentials are not for operations manager do not make operation manager functions available
  + List the purchase orders and have a button that lets the operations manager validate the purchase order
    - The button will sent data to the database approving the purchase order and listing the ID code of the operation manager that validated.
  + Message will be displayed to let the operation manager know that it has been validated and saved.
* Customer update personal/billing information
  + Page load make sure that the customer log in credentials are valid
  + Have a page that lists the personal information for that customer and have an edit button that lets them change information
  + If the edit button is pushed it will make sure that all required fields are filled in and that the information seems valid
    - If the information is not valid it will put out an error message and list what is missing or incorrect
  + If the information is valid it will be sent to the database and updated
    - A message will let the customer user know that the information has been saved.

Database Logic

* Orders
* Products
* Users
* Purchases
* Events

## Requirement 2

GUI Design Functionality and visibility

* Use master pages to setup look
* Content pages to display data
* Cascading Style Sheets
* JavaScript enhancements
* Print screen

Business logic – data and input validation

Database – Collection, storing, and displaying information

* Create Views
* Stored Procedures