

Sassy Stems

Automating a Floral Business

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Executive Summary

Description of Business

Sassy Stems is my sister's floral business that she runs out of her house. Weddings are her sole business, and each one is time intensive. She loves the creative part of the business but hates the business side of it and has a hard time getting herself organized before each wedding. With each new client, she has to take notes from a consultation with a client, make a list of all the materials she will need to use and the flower arrangements she will need to do, and produce an invoice billing the client for the services she provided. She does each of these in a separate document and then has to copy everything from the consultation to the other two documents. It is ridiculously redundant.

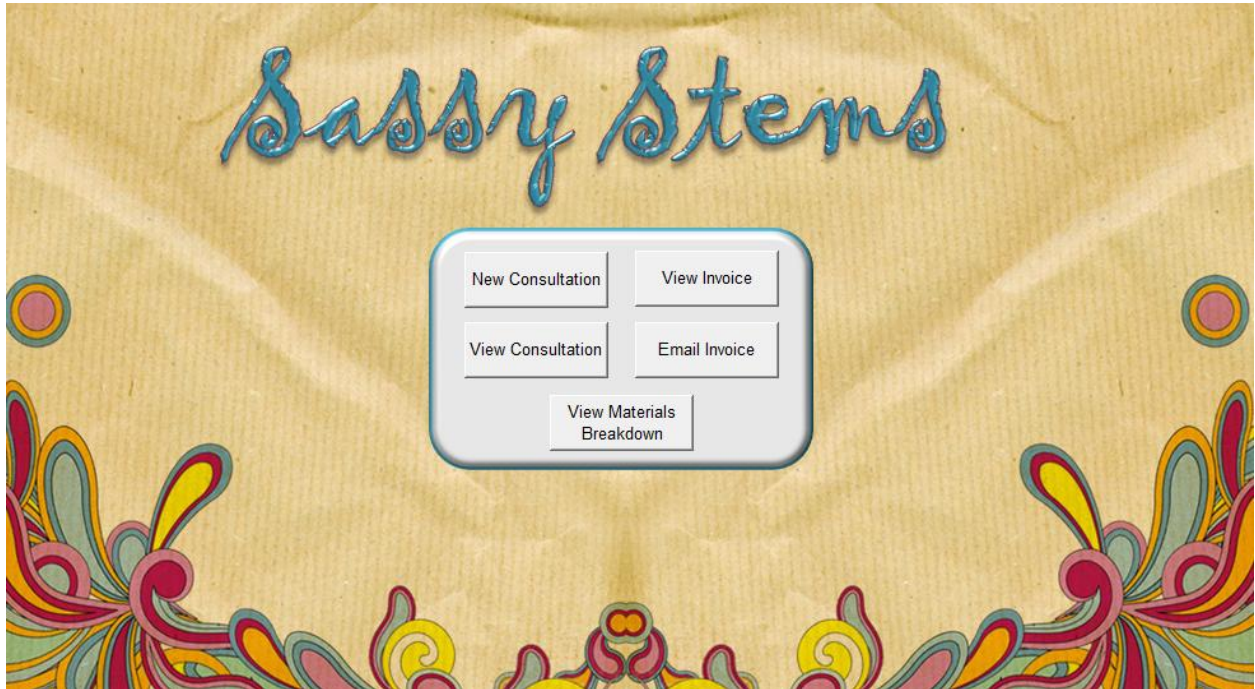
My System

I took the three different documents that Sassy Stems was producing for each client and combined them into one easy Excel file that she can keep track of the wedding in. I have automated it by introducing a user form that she fills out during a consultation, highlighting the client's preferences and the things that my sister needs to make for them. Once she fills out the consultation, all she has to do is push Submit and her invoice is made for her and her materials list is started for her. She can also email the client the invoice right from the Excel file.

URLs

System Implementation

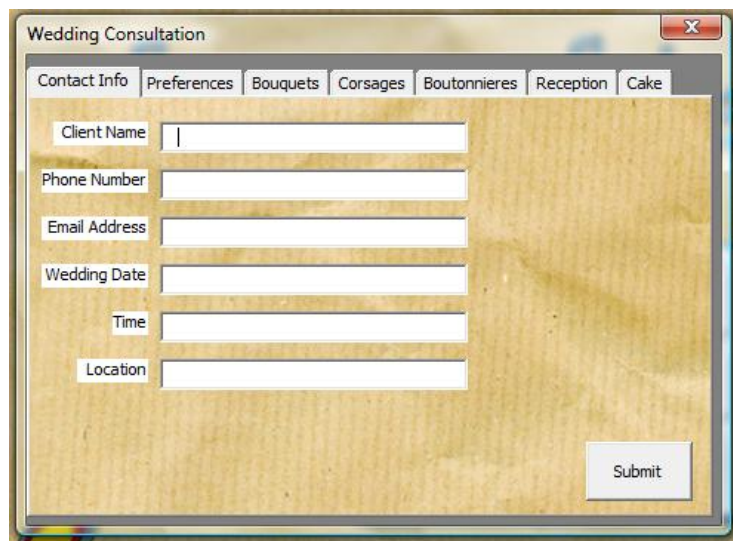
The main page of the file is a dashboard, where Sassy Stems can go to do everything that they need to in relation to a wedding. The dashboard has five buttons:



1. New Consultation

This tab is where everything that is going to go in the spreadsheets is going to come from. It has seven pages within it, each addressing different things relating to the upcoming wedding:

Contact info of the Client:



Wedding Consultation

Contact Info Preferences Bouquets Corsages Boutonnieres Reception Cake

Client Name

Phone Number

Email Address

Wedding Date

Time

Location

Submit

Client's Preferences:

The screenshot shows the 'Wedding Consultation' window with the 'Preferences' tab selected. The form has a light brown, textured background. At the top, there are tabs for 'Contact Info', 'Preferences', 'Bouquets', 'Corsages', 'Boutonnieres', 'Reception', and 'Cake'. Below the tabs, there are four text input fields labeled 'Colors', 'Specific Ideas', 'Likes', and 'Dislikes'. A 'Submit' button is located in the bottom right corner.

Bouquets Needed:

The screenshot shows the 'Wedding Consultation' window with the 'Bouquets' tab selected. The form has a light brown, textured background. At the top, there are tabs for 'Contact Info', 'Preferences', 'Bouquets', 'Corsages', 'Boutonnieres', 'Reception', and 'Cake'. Below the tabs, there are three text input fields labeled 'Bridal', 'Bridesmaid', and 'Toss'. To the right of each field is a 'Quantity' label and a small square input box. A 'Submit' button is located in the bottom right corner.

Corsages Needed: With this one, I made working radio buttons because there are two types of corsages that her clients could order, wrist corsages and pin corsages.

The screenshot shows the 'Wedding Consultation' window with the 'Corsages' tab selected. The form has a light brown, textured background. At the top, there are tabs for 'Contact Info', 'Preferences', 'Bouquets', 'Corsages', 'Boutonnieres', 'Reception', and 'Cake'. Below the tabs, there are five text input fields labeled 'Bridesmaids', 'Mothers', 'Sisters', 'Grandmothers', and 'Flower Girl'. To the right of each field is a 'Quantity' label and a small square input box. To the right of the 'Quantity' boxes, there are two radio button options: 'Wrist' and 'Pin'. A 'Submit' button is located in the bottom right corner.

Boutonnieres Needed:

The screenshot shows the 'Boutonnieres' tab of a 'Wedding Consultation' form. The form has a wooden background and a tabbed interface with the following tabs: Contact Info, Preferences, Bouquets, Corsages, Boutonnieres, Reception, and Cake. The 'Boutonnieres' tab is active. It contains a table with five rows for different categories: Groom, Groomsmen, Fathers, Brothers, and Grandfathers. Each row has a text input field and a 'Quantity' column with a small square input box. A 'Submit' button is located at the bottom right of the form.

	Quantity
Groom	<input type="checkbox"/>
Groomsmen	<input type="checkbox"/>
Fathers	<input type="checkbox"/>
Brothers	<input type="checkbox"/>
Grandfathers	<input type="checkbox"/>

Reception Pieces Needed:

The screenshot shows the 'Reception' tab of a 'Wedding Consultation' form. The form has a wooden background and a tabbed interface with the following tabs: Contact Info, Preferences, Bouquets, Corsages, Boutonnieres, Reception, and Cake. The 'Reception' tab is active. It contains a table with five rows for different categories: Centerpieces, Guest Table, Food Table, Decor, and Miscellaneous. Each row has a text input field and a 'Quantity' column with a small square input box. A 'Submit' button is located at the bottom right of the form.

	Quantity
Centerpieces	<input type="checkbox"/>
Guest Table	<input type="checkbox"/>
Food Table	<input type="checkbox"/>
Decor	<input type="checkbox"/>
Miscellaneous	<input type="checkbox"/>

And Cake Items Needed:

The screenshot shows the 'Cake' tab of a 'Wedding Consultation' form. The form has a wooden background and a tabbed interface with the following tabs: Contact Info, Preferences, Bouquets, Corsages, Boutonnieres, Reception, and Cake. The 'Cake' tab is active. It contains a table with two rows for different categories: Topper and Flowers Only. Each row has a text input field and a 'Quantity' column with a small square input box. A 'Submit' button is located at the bottom right of the form.

	Quantity
Topper	<input type="checkbox"/>
Flowers Only	<input type="checkbox"/>

On any of the tabs, I have programmed it so that when the Submit button is clicked, it takes all of the information in all of the tabs and writes it to the spreadsheets. This is to reduce the amount of clicking submit that you have to do. If she changes her mind and wants to go in and change something, she can either click the “New Consultation” button again and edit it there, or edit it right on the “Consultation” worksheet within the workbook. I have programmed it so the form does not unload but hides, still filled out, so that she can go back to it and change things she needs to.

2. View Consultation

The screenshot shows an Excel spreadsheet with the following content:

	A	B	C	D	E
1	Harry Potter Wedding				
2	July 31, 2012, 8:00am				
3	Gloucester Cathedral				
4	123-456-7890				
5	Shades of Gold, Crimson, And Brown				
6					
7	Specific Ideas	We want the flowers to look like they're just floating there.			
8					
9	Likes	Wacky, unique flowers			
10					
11	Dislikes	Roses			
12					
13	Bouquets	Bridal	1	Exotic, wild flowers, snapdragons, Venus fly traps	
14		Bridesmaids	4	Mini versions of the bridal bouquet, but no Venus fly traps	
15		Toss	1	Mini version of the bridal bouquet, with fewer exotic flowers	
16					
17					
18					
19	Corsages	Bridesmaids	not needed (they ordered bouquets)		
20		(pin)			
21		Mothers	2	blah blah blah	
22		(wrist)			

The spreadsheet also shows a tab bar at the bottom with the following tabs: Dashboard, Consultation (selected), Materials Breakdown, and Invoice.

This tab takes her to the result of all the inputs she entered on the form. I have made it so that the quantities are right next to each item she needs, and each corsage tells you what type it is supposed to be.

3. View Invoice

ITEM DESCRIPTION	QUANTITY	PER UNIT	TOTAL
bridal bouquet	1	\$50.00	\$50.00
bridesmaids bouquets	4	\$16.00	\$64.00
toss bouquets	1	\$14.00	\$14.00
bridesmaids corsages	0	\$5.00	\$0.00
mothers corsages	2	\$5.00	\$10.00
sisters corsages	5	\$5.00	\$25.00
grandmothers / great corsages	2	\$5.00	\$10.00
flower girl corsage	0	\$5.00	\$0.00
groom boutonniere	1	\$4.00	\$4.00
groomsmen boutonnieres	6	\$4.00	\$24.00

The invoice is also updated by the form that she fills out during the consultation, with a total at the bottom that she can use if her client wants a quote of what the price of the wedding could be.

4. Email Invoice



When she clicks the “Email Invoice” button, she is prompted for her Gmail username and password. If it does not work, she gets this message and is told to try again:

This worksheet is also updated when she fills out her consultation. If you scroll down, you can see a total cost of all of the flowers used, her labor, materials used, and delivery charges.

I wanted to make this update with all of the different types of flowers she would use, along with the quantities and prices of each, but that information was not available online anywhere that I could find. I was looking for any wholesaler of flowers in Las Vegas who had its prices online, but none of them did. So this part my sister will still have to do manually. However, she usually figures out how many of each flower she wants to put in each item when she is doing it anyway. The sheet still gives her a way to figure out the total cost of all the work she was doing, including the cost of the flowers.

Learning and Conceptual Difficulties

This project utilized at least one thing that I have had to master in each of the other projects and homework assignments throughout the class. What gave me the most difficulty was figuring out how to send the invoice in an email. I spent hours reading up and going over code of how to save the worksheet as a workbook by itself, attach it to an email, and delete itself immediately afterward. Here is a list of other technical concepts I had to master in doing this project:

- Assigning the different boxes on the form to their respective ranges and cells on the worksheets
- Making the form aesthetically pleasing. My sister did not want something that looked like it was from the 90s because her business needs to look like it is forward-looking and creative
 - I had to learn how to input a picture as the background of each of the tabbed frames within the form
- Making it so that the radio buttons were only associated with each of the types of corsages needed
 - I had to learn that you had to put radio buttons within a frame, or else all of the radio buttons on the page will work with each other and only one of them may be pressed in at a time.
- Using tabbed frames inside a form and how to format them
- With statements
- Formatting the color of labels within a form to make more aesthetically pleasing
 - Instead of the standard gray label color
- Reading a .txt file into VBA as a string
- Emailing using a template saved in a .txt file
- Sending emails from the spreadsheet
- Email a single worksheet by saving it as a workbook, sending it in an email, then deleting the worksheet, all without the user being informed of these things
 - I used this website for this code:

- [http://msdn.microsoft.com/en-us/library/bb268022\(v=office.12\).aspx](http://msdn.microsoft.com/en-us/library/bb268022(v=office.12).aspx)
- I did not use the code until I had read through it all and understood what each line did.
- I had to change several things within the code since it was written for use with Outlook and I needed it to work with Gmail.