Up in Arms Brewery

Project Specification

*my hop bines, August 2013

Time Log

Date	Time	Description	Author
10/9/2013	2 hours	Outline project specifications	Taylor Wood
10/9/2013	60	Estimated completion time	Taylor Wood

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Requirements Specifications

Introduction

- **Purpose/Scope**

This website aims to establish the first online presence for the nanobrewery (small microbrewery) my friend Jim and I will start once I graduate and he leaves the navy. Vermont is currently the nations fastest-growing hotspot for small breweries, and while this is great for business it means that we will face heavy competition from notable established players in the field (Hill Farmstead, Fiddlehead, Switchback, the Alchemist, to name only a few). Gaining a sense for our market, and planning how we can produce a distinct product, we need a survey on our website to see what craft beer drinkers value in their beers. The survey should be functional, reliable, and simple to access and use for customers with presumably low technical knowledge.

- **Definitions, acronyms, and abbreviations**

HTML – Hypertext markup language

PHP – Personal Home Page – language that helps to customize HTML

SQL – Structured Query Language – used to manipulate data in relational databases

CSS – Cascading Style Sheets

W3 Validation – refers to both HTML and CSS validation tool provided by the

W3c.org. the html validator is located at: http://validator.w3.org/

CSS validator located at: http://jigsaw.w3.org/css-validator/

- **Overview**

The rest of this document contains an overall description for the Up in Arms Brewery website.

Overall Description

The Home page contains contact information for our business, pictures of our operations (hop yards, brewing process, etc), as well as links to the other pages on the website.

The Survey page contains a database-driven form that allows users to input their preferences for factors we consider important to good beer: hops, malts, style, taste, aging, and price

Once the customer submits the form, it will be processed and displayed on an internal password-protected Results page- only viewable by Jim and myself to see the results.

There will also be a Recipe Archive detailing some of our favorite beers that we have made in the past. Many of these beers will form the basis for regular recipes, and there will be a list box on the customer survey asking the customer to select one beer from the recipe that they would likely most enjoy.

- **Data Dictionary**

Table Guide

```
+------------------------+
| Tables_in_TTW000_brew  |
+------------------------+
| tblBeer                |
| tblCustomer            |
| tblCustomerBeer        |
| tblRegister            |
+------------------------+
```

tblCustomer

```
+----------------+-------------+------+-----+---------+-------+
| Field          | Type        | Null | Key | Default | Extra |
+----------------+-------------+------+-----+---------+-------+
| pkCustomerEmail | varchar(50) | NO   | PRI | NULL    |       |
| fldLastName    | varchar(20) | NO   |     | NULL    |       |
| fldFirstName   | varchar(15) | NO   |     | NULL    |       |
| fldPhoneNumber | char(13)    | NO   |     | NULL    |       |
+----------------+-------------+------+-----+---------+-------+
```

tblRegister

```
+----------------+-------------+------+-----+-------------------+-----------------------------+
| Field          | Type        | Null | Key | Default           | Extra                       |
+----------------+-------------+------+-----+-------------------+-----------------------------+
| pkBeerRating   | int(11)     | NO   | PRI | NULL              |                             |
| fkCustomerEmail | varchar(50) | NO  |     | NULL              |                             |
| fldDateJoin    | timestamp   | NO   |     | CURRENT_TIMESTAMP | on update CURRENT_TIMESTAMP |
| fldConfirmed   | tinyint(1)  | YES  |     | NULL              |                             |
+----------------+-------------+------+-----+-------------------+-----------------------------+
```
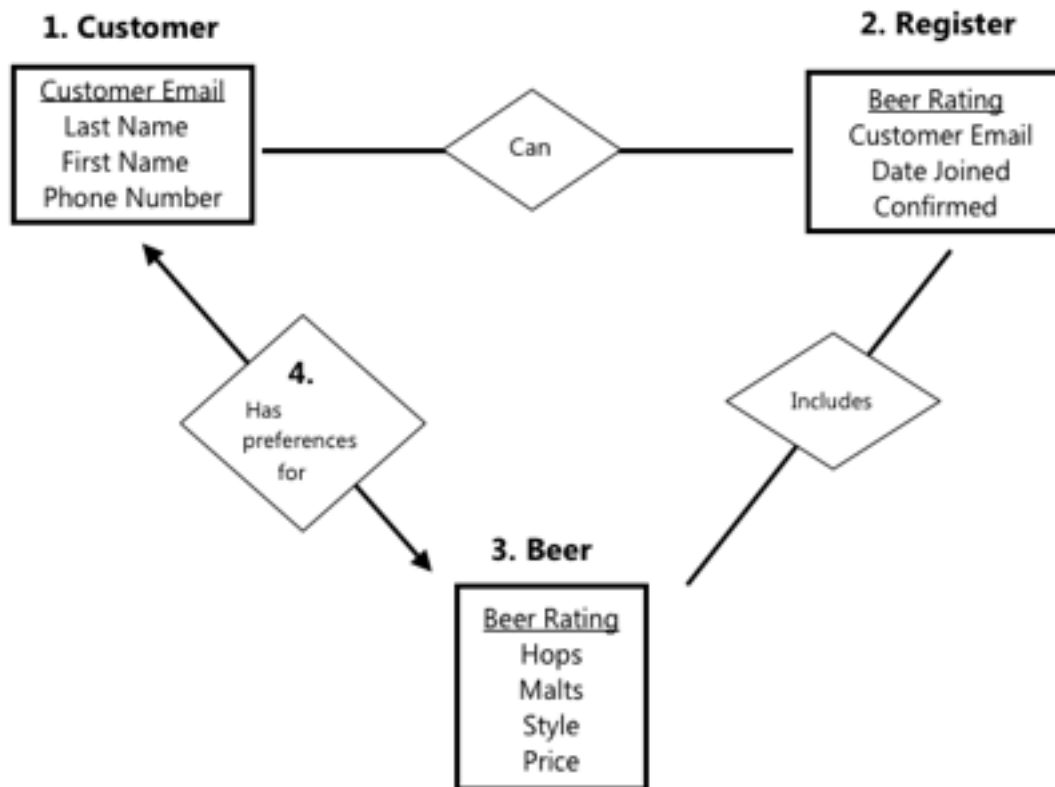
tblCustomerBeer

```
+----------------+-------------+------+-----+---------+-------+
| Field          | Type        | Null | Key | Default | Extra |
+----------------+-------------+------+-----+---------+-------+
| fkBeerRating   | int(11)     | NO   | PRI | NULL    |       |
| fkCustomerEmail | varchar(50) | NO  | PRI | NULL    |       |
+----------------+-------------+------+-----+---------+-------+
```

tblBeer

```
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| fkBeerRating | int(11)     | NO   | PRI | NULL    |       |
| fldHops      | varchar(10) | YES  |     | NULL    |       |
| fldMalts     | varchar(10) | YES  |     | NULL    |       |
| fldStyle     | varchar(10) | YES  |     | NULL    |       |
| fldPrice     | varchar(10) | YES  |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
```
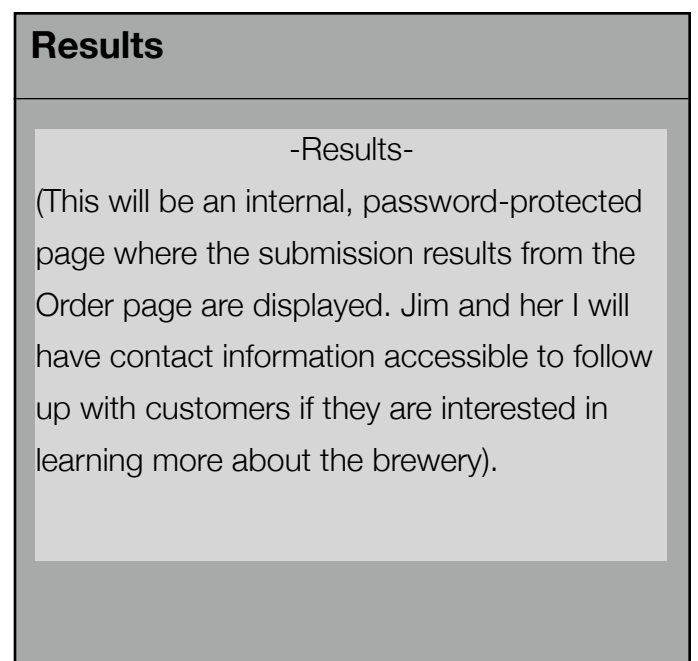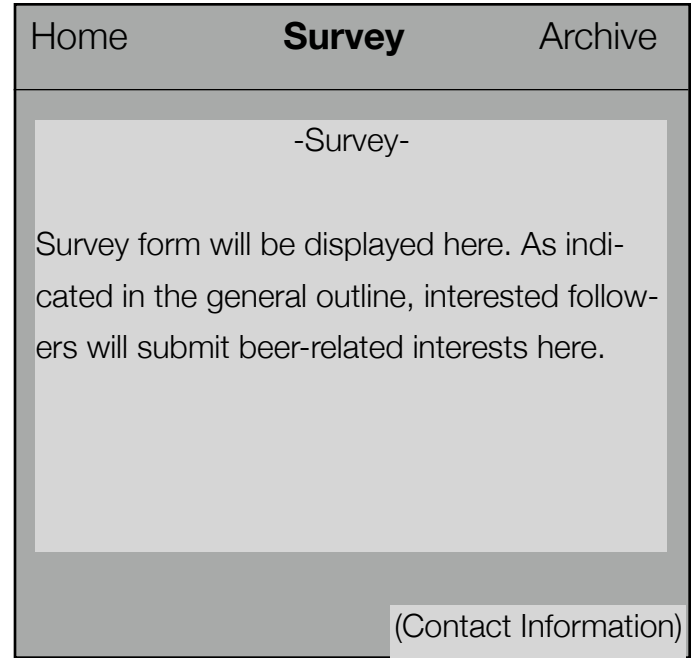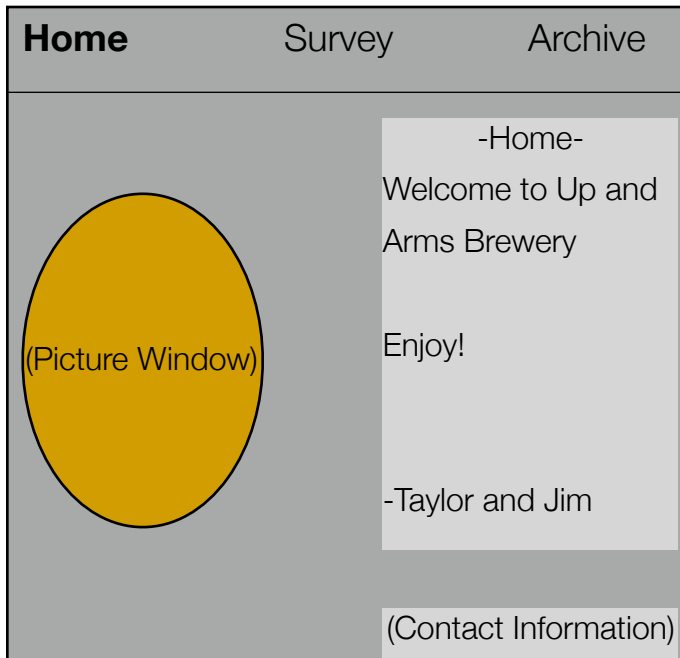
- **E-R Diagram**

- **Schema**

1. CREATE TABLE tblCustomer(pkCustomerEmail VARCHAR(50) primary key, fldLastName VARCHAR(20) not null, fldFirstName VARCHAR(15) not null, fldPhoneNumber CHAR(13) not null);
2. CREATE TABLE tblRegister(pkBeerRating INT(11) primary key, fkCustomerEmail VARCHAR(50) not null references tblCustomer(pkCustomerEmail), fldDateJoin TIMESTAMP, fldConfirmed TINYINT(1));
3. CREATE TABLE tblBeer(fkBeerRating INT(11) primary key references tblRegister(pkBeerRating), fldHops VARCHAR(10), fldMalts VARCHAR(10), fldStyle VARCHAR(10), fldPrice VARCHAR(10));
4. CREATE TABLE tblCustomerBeer(fkBeerRating INT(11) not null references tblBeer(fkBeerRating), fkCustomerEmail VARCHAR(50) not null references tblCustomer(pkCustomerEmail), primary key (fkBeerRating, fkCustomerEmail));

- **Story Board**

Home	Survey	Archive

-Home-
Welcome to Up and Arms Brewery

Enjoy!

-Taylor and Jim

(Picture Window)

(Contact Information)

Home	**Survey**	Archive

-Survey-

Survey form will be displayed here. As indicated in the general outline, interested followers will submit beer-related interests here.

(Contact Information)

Home	Survey	**Archive**

-Beer Recipe Archive-

Beer A
Description

Beer B
Description

(Contact Information)

Results

-Results-
(This will be an internal, password-protected page where the submission results from the Order page are displayed. Jim and her I will have contact information accessible to follow up with customers if they are interested in learning more about the brewery).

Specific Requirements

1. Expandable- Jim and I are seriously interested in turning this project into the actual website for our business, the content included on this site must allow for improvement and expansion for more pages (ie: brewery blog, photo gallery, E-commerce site).

2. Logo- a company logo must be drafted and should appear on every page on the website. With Jim's military background and my extensive brewing experience, we want to make the logo reflect patriotism and the enjoyment of American beer, two traditions that that are part of our heritage that we both share immense respect for.

3. Location – all files will be located in the public folder of author's UVM account in the directory titled "cs148/assignment4.1". These files will eventually be moved to our own domain for further use as we refine the website for Up in Arms Brewery.

4. HTML Validation – All pages will pass W3C HTML validation for HTML 5.

5. CSS Validation – All pages will pass W3C 3.0 CSS validation.

6. Meta Information – All pages will contain a proper title tag, Meta tags (author, character set and description). This will be especially important for search engine indexing once our website is transferred to a private domain that Google and other search engines will crawl.

7. CSS – all pages will have a linked style sheet.

8. Navigation – All pages will contain navigation to all other pages on the site using an ordered list. This list must allow room for expansion as Up in Arms Brewery grows. Navigation will be enclosed in the correct element.

9. Content – Each page will have a minimum of 150 words not counting titles, lists or links. Following the navigation bar, our content must leave room for expansion. Correct elements must be used to hold content.

10. Browser compatibility - This site will be checked on Firefox, Safari, Chrome and Internet Explorer.

11. File Names – the main home page will be called home.php with the rest of the file names titled according to the specific pages, ie: order.php, products.php, results.php.

12. Form – Can be filled out (with PHP validation) and all information will be placed into database tables via PHP.
    - Must include at least one text box, two check boxes, two radio buttons and one list box.

- Form will do error checking, be sticky and allow for both insert and update, it should submit to itself.
- Site must permit then confirm registration.