What's on Tapp?

By

Katherine Prosser, Stanley Peavy, Michael Klaas

Submitted to
The Faculty of the School of Information Technology
in Partial Fulfillment of the Requirements for
the Degree of Bachelor of Science
in Information Technology

Katherine Prosser, Stanley Peavey, Michael Klaas _____ 04/18/2016

Katherine Prosser Michael Klaas

Robin Carew _____ 04/18/2016

University of Cincinnati
College of
Education, Criminal Justice, and Human Services

April 2016

Table of Contents

Abstract

Google is the most-used search engine, handling several billion searches daily. Imagine you have flown into Cincinnati and have a craving for a craft beer. You could try Google and get a few results. Or, you can use our *What's on Tapp* website to get all the bars within your area and a list of craft beers they serve, by simply entering your zip code. Our site includes a registration page to allow craft beer lovers to create an account and add information about a bar they have attended or just browse the beers listed. Bar owners can also register to create and update their list of beers and bar information. Our database uses SQL to store information on craft beers for various locations and utilizes Google maps to track bar locations within 30 miles. In addition, our site has a login page and database that updates every night.

Introduction

We created a web based app for craft beer preferred for individuals 21 and older. The goal of this app is for beer lovers to go and quickly find what nearby bars have to drink. In addition, we want the users to be able to type in their favorite beer and locate what bar it will be available at. This site will have multiple pages and the ability to create more. You can almost think of this as a social app, as it will require participation.

We used Google API to collect information about bars in Cincinnati. At the same time customers can create an account and add information about the bars they go to. This way if a bar does not have a website they will still appear on our web app.

PROBLEM

When using Google search engine to search for "craft beer near me", you will receive 64,900,000 results that are listed on multiple pages. The results are usually prioritized by the companies who invest the most in advertisement. The common problem is that unless you already know the specific bar or beer you are searching for these results are not helpful. In addition, some local bar owners may not be computer savvy or prefer not to advertise on the internet so their information is not available. This results in potential customers not being able to review the beer selection before attending the bar or restaurant.

SOLUTION

The "What's *on Tapp"* website provides beer lovers with a centralized list of craft beers in their surrounding area. The database limits the results within the specified zip code and by bar. The advantage of this website for beer lovers is that it will provide a more efficient way to review, search and add favorite beers. The advantage of this website for bar or restaurant owners is that it gives them the ability to influence potential customers without a website, direct mail or television commercial.

USER PROFILE

I. Application Title

What's on Tapp

II. Potential Users

1. Bar owners
2. Customers
3. System Administrator
4. Database Administrator

III. Software and Interface Experience:

The System Admin and Database Admin should have experience updating both the site and the database. Customers/Bar Owners should have experience creating User Profiles, updating their information and Browsing the web.

IV. Experience with Similar Applications:

1. HTML
2. SQL
3. JAVA

V. Task Experience:

1. Updating sites
2. Basic SQL
3. Site infrastructure

VI. Frequency of Use:

Everyday use, customers will be using this site regularly, System and Database users will be updating and improving both as needed.

VII. Key Interface Design Requirements that the Profile Suggests:

1. Database
2. Website
3. Java Forms/Scripts
4. GO location
5. Web Scrapers

Use Case Diagram

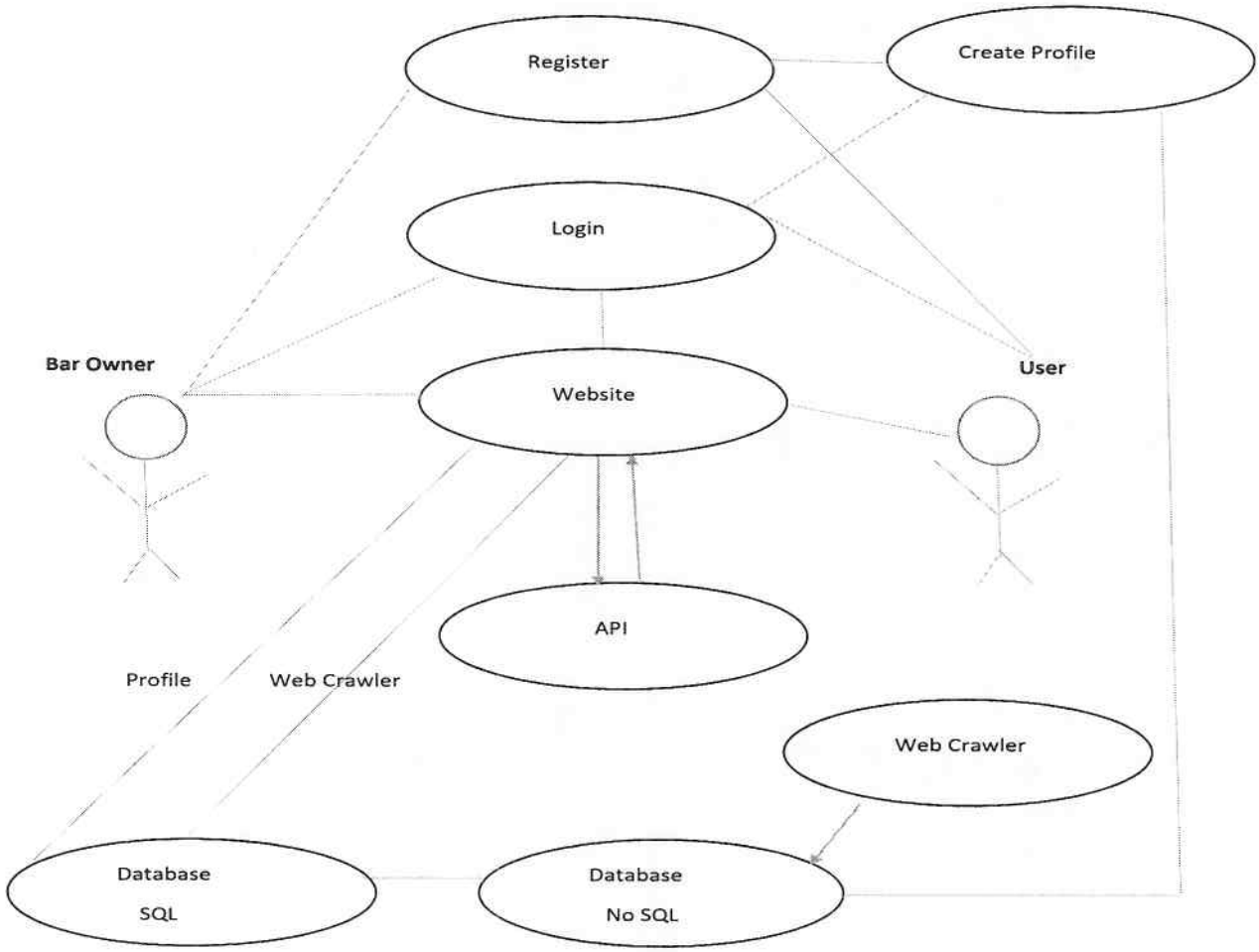


Figure 4.1.1 – Use Case Diagram

Grant Chart

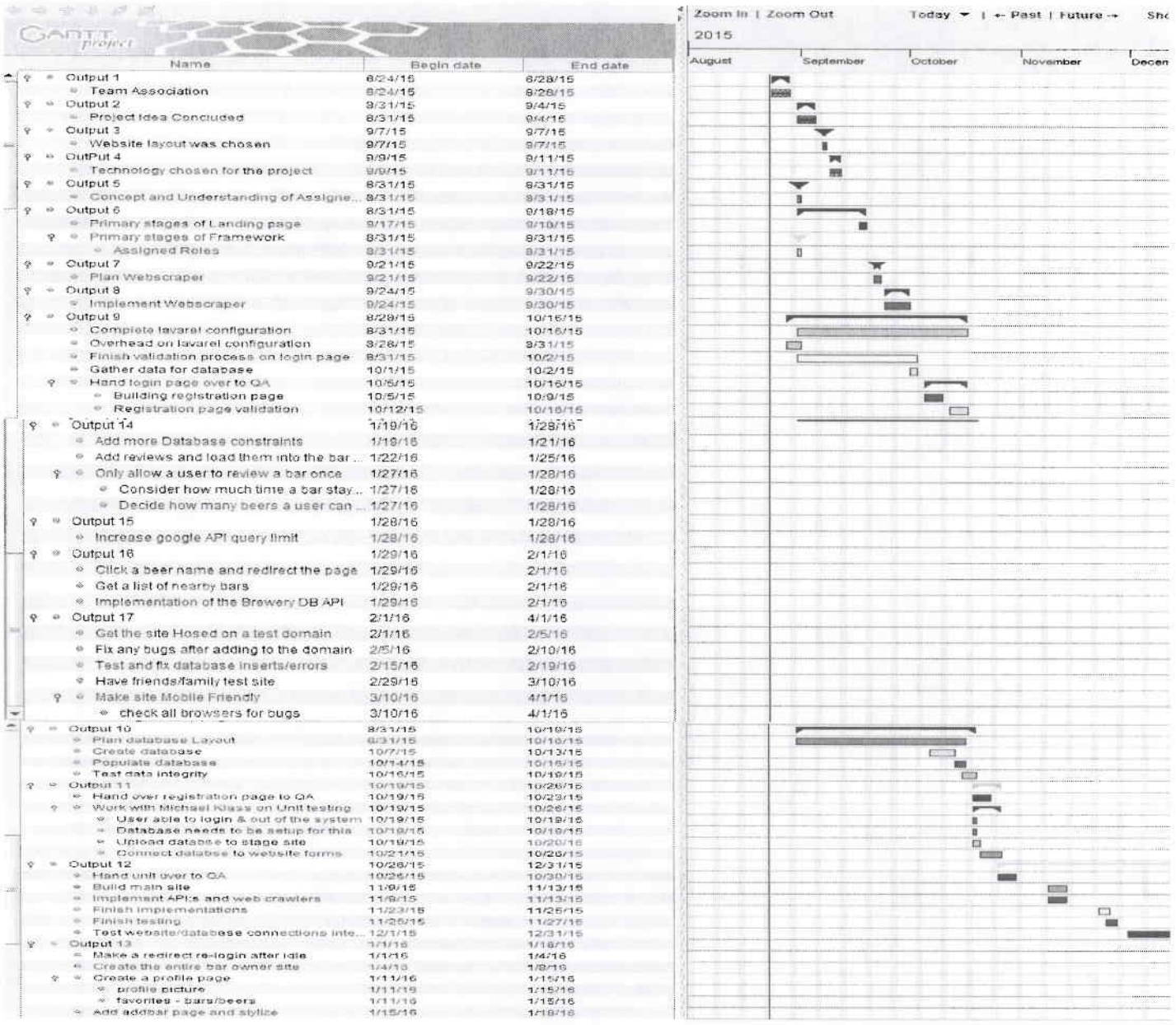


Figure 5.1.1 – Use Case Diagram

The following is a summary of our test plan with results

I. **User will access the site**

a. opens the web browser
b. enter the local URL
c. click search
    i. user will see the site

II. **User will register for the site**

a. user navigates to the site
b. user scrolls down the page and click register
    i. Register page populates the screen
c. user populates all required fields and click register
    ii. Results
        1. user successfully registers for site

III. **User logs into site**

a. (post condition) user has already created an account
b. Navigate to site
c. Click "login"
    i. Login page populates the screen
d. User logs in with the credentials defined during registration
    ii. Results
        1. User successfully logs into site/Landing page

IV. **User sees available bars in their area (based on zip code used during registration)**

a. User is registered, user logged into site, landing page is visible
b. User clicks the services link in the header of the site
c. Service page displays the screen
d. User will see a map and a list of bars in their current area. (based on zip code entered when registered)
e. User confirms
    i. Results
        1. User is are able to see bars in their area

V. **User is able to search for available bars in different zip codes**

a. User is registered, user logged into site, landing page is visible
b. User clicks the services link in the header of the site
c. Service page displays the screen
d. Within the zip code field, enter a new zip code and click search
e. User confirms
    ii. Results
        1. New bars are displayed

VI. User will log out of website

a. User has an account, user logged into site, landing page is visible
b. User clicks on the logout out link on the page header
    i. Results
        1. User is sent back to the landing page

VII. User not able to log into the site

a. User never created an account
b. User navigates to the website
c. User attempts to log into the site
    i. Results
        1. User receives an error message

VIII. User can only be logged into one instance at a time

a. User is logged into the site using goggle chrome web browser
b. User copies the url into internet explorer, while still logged into the instance opened in Google chrome
c. User tries to navigate within the site using internet explorer
    i. Results
        2. User receives an error message (user didn't login using internet explorer)

Functional Requirements:

Req #	Item #	Test Case #	Input	Expected Output	Actual Output	Pass/Fail	Reason for failure/success	Date
I	I. b & c	1	User types URL	Site Loads	User sees Site	P	Site Loaded Correctly	01/19/2016
II	II. b & c	2	User scrolls to bottom of page and click register	Registration page loads	Page loads/user can register	P	Registration was created	01/19/2016
III	III. c & d	3	User clicks login	User should be able to login	User login successful	P	Login successful	01/20/2016
IV	IV. b, c &d	4	User clicks services link in the header of site	Service page should load, user will see a map and list of bars	User is able to see the bars in their area	P	Landing page successfully displayed bars in the area	01/20/2016
V	V. d & e	5	Enter a zip code and search	List of bars are displayed	New bars are displayed	P	Bars within the zip code were displayed	01/20/2016
VI	VI. a & b	6	Logout	User should be redirected to landing page	User is logged out landing page is displayed	P	Logout was successful	01/20/2016
VII	VII. a,b & c	7	User cant log into site	User never created an account, navigates, user attempts to login	User receives error message	P	Account was never created	01/20/2016
VIII	VIII. a, b & c	8	User logged in using google chrome web browser	User copies url into internet explorer still logged in using google	Error message	P	Error message user didn't login using internet explorer	

Figure 8.1.1 – Test Planning

Program Screenshots

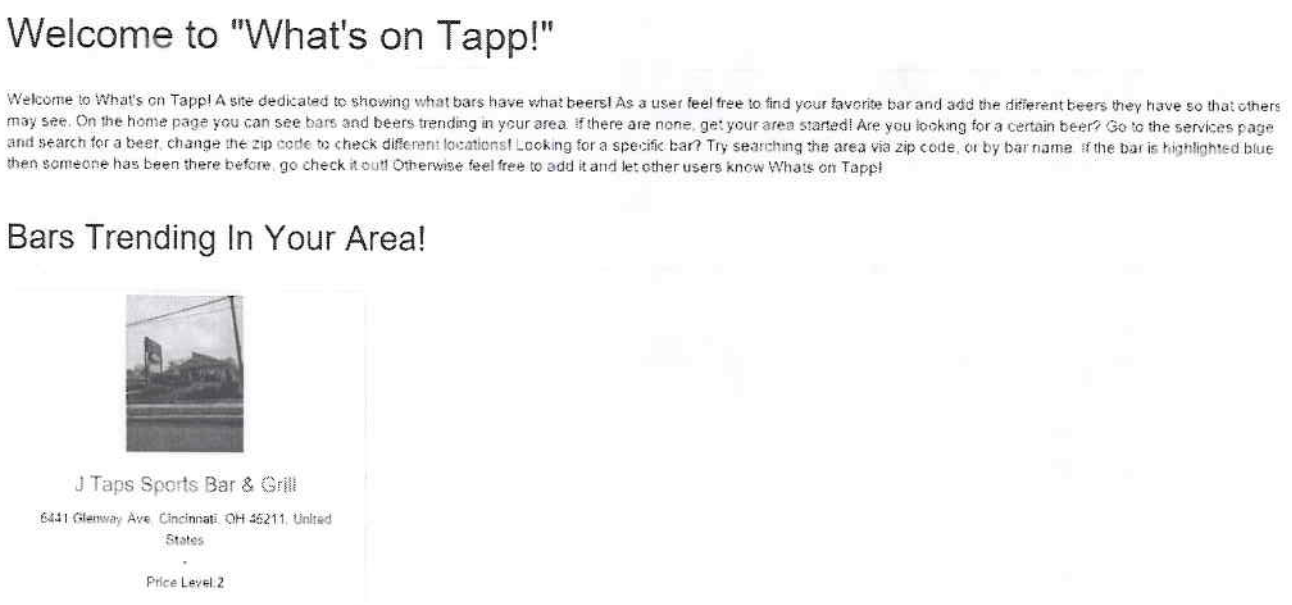
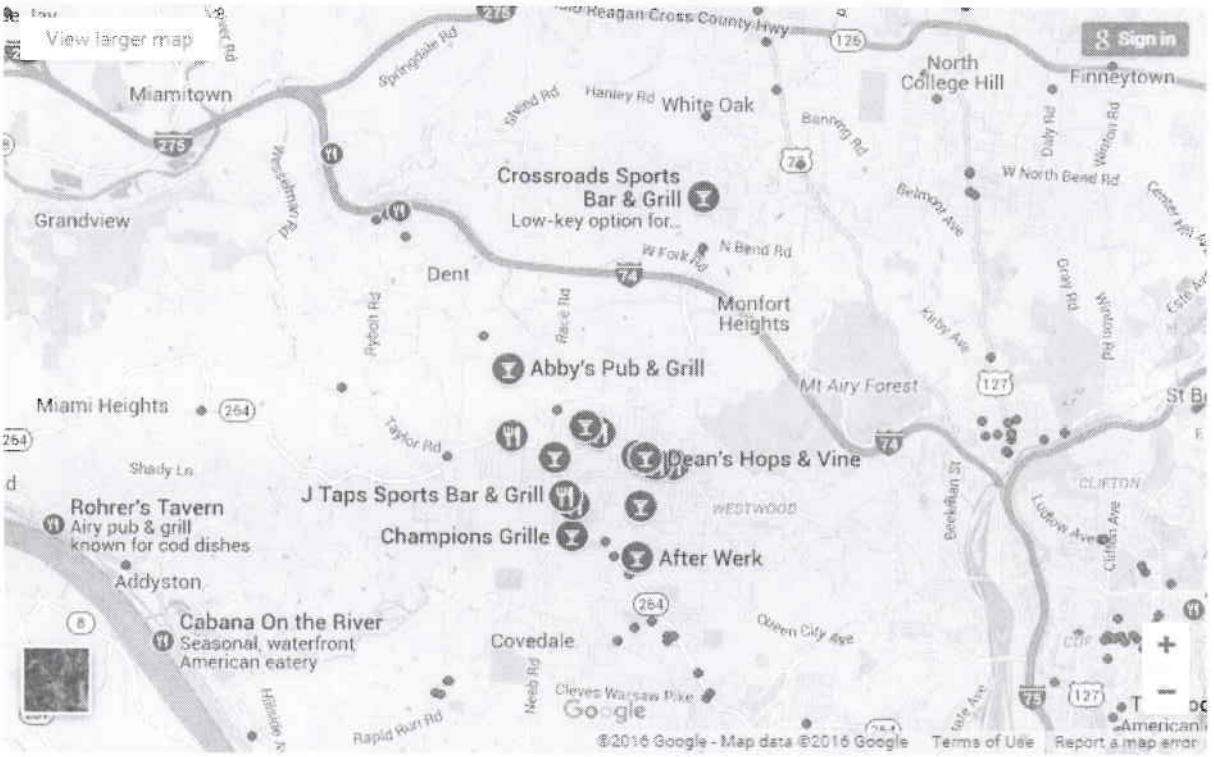


Figure 9.1.1 – Program Screenshots

Figure 9.1.2 – Program Screenshots



Bars Within **45211**

Figure 9.1.3 – Program Screenshots

J Taps Sports Bar & Grill +

6441 Glenway Ave, Cincinnati, OH 45211, United States

-

Price Level:2

Dean's Hops & Vine +

3722 Harrison Ave, Cincinnati, OH 45211, United States

Rating:4.1

-

GAME TIME Sports Bar & Grill +

3613 Harrison Ave, Cheviot, OH 45211, United States

-

-

Figure 9.1.4 – Program Screenshots

Budget

According to a poll the average freelance web developer would charge 50 bucks for a multi paged complicated web page. Seeing as we worked for six months on part time basis for about 20 hours a week we can estimate that a professional web developer would make (26 weeks * 20 hours * 50 dollars an hour) $26000. Multiply this for each group member (3 * 26000) and we can estimate a cost of $78,000 for this site. We made this website using free time and open source applications, our only cost would be $24 dollars a year to host the site and $24 dollars a year for our beer API.

Conclusion

This project could carry on past Tech Expo and graduation. There is so much more that can be added that requires a lot more work. We would like for site to have a page that allows a user to view the page without logging in, however that will have to be done after the semester over.

We have learned that there is so much more this than what was anticipated.

Works Cited

www.google.com
http://www.mysql.com
https://www.phpmyadmin.net
http://www.brewerydb.com