



Beer Butlers

Developers

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Test Plan

The Testing Process & Requirements Traceability:

BeerButlers System process begins with testing the UI (the website). User will test the functionality of the site to ensure that all links work, all features work, and then in more depth how different search inputs return different results. The site is required to have no broken links, no broken images, search features return search results, etc... Response times are expected to be quick, with the exception of the main search function which can slow down due to too general of search terms and thus a large number of elements being returned.

Tested Items

See Section 2.1

Testing Schedule

Testing will be done over a five-day period 11/21-11/25.

Test Recording Procedures

Test Operators will record any broken links, features they find. They will record the site response time, how fast pages and results load. Test Operators are testing the GUI exclusively. All internal/back end testing will be conducted by the developers. The developers will create Unit tests to examine the functionality of the code. Results will be recorded in comments within the code and in this document.

Hardware & Software Requirements

Test Operators will need to have high speed internet to test the system.

2. Static V&V

2.1 Tested Items

The BeerBulters website (GUI)

The BeerButlers back end - all JS functions will need to be tested with Unit tests

2.2 Checklist

a. Index.html

i. Does the page load within 10 seconds?

Yes the page loaded almost instantly

ii. All images are loaded?

Yes all the images are loaded none of the images had a broken link

iii. Are all links clickable?

All but the browse on the bottom of the page. If the browse is clicked the site hangs and the browsers asks to kill the site.

iv. Does the page resize without losing content?

v. Can you search for a beer?

No I got a server fail response when trying to search.

1. Is the response time within 10 seconds?

The initial page loads in 10 seconds, but upon searching it hangs.

2. Do images load?

Never go there

3. No missing content?

Unsure.

vi. If you select a flavor profile does a beer return?

Nothing happens when a flavor is selected.

vii. If you select a food category does a beer return?

Nothing happens when a food is selected.

b. FAQs, BeerArticles, Contact.html

i. Do the pages load within 10 seconds?

FAQs does load within 10 seconds, the background of the BeerArticles page loads in less than 10, but the images take more around 15-20 seconds.

2.3 Inspection Results

Inspector was Olivia Lorimor. See section 2.2 for direct responses to checklist. Overall results are summarized here. Overall layout, graphics, style is visually nice. HTML and CSS elements are all functioning. There seems to be issues with the server or database causing the search function to hang/not respond.

2.4 Rework and Follow-up

Developers inspected issue and unfortunately can do little about it other than do a re-test on a different day. Brewery DB has a call limit of 400 per day. Once the limit is reached the database cuts the system off. Future development will need to include using a different API or upgrading to premium access to get a higher limit.

3. Dynamic V&V

3.1 Unit Testing

HTML and CSS cannot be tested using unit tests. We developed a test suite that will test our JavaScript functions. Unit Test source code is attached to this document. In order to run these tests the Operator needs access to our server, BeerButler source code, and test source code.

3.2 Interface Testing & 3.3 System Testing

See section 2.2 for a detailed list of the interface/system testing criteria. Our Software has the following features: search bears, get beer from flavor input, get beer from food input. Testing showed that current features need to be further implemented. Search results need more information returned. Other features not connected to the database include a contact form in which users can email the developers, a Javascript program that shows developer's recommendations, and an html page that links to more information on beer.

3.4 Non-functional Requirements Testing

N/A