

SW Engineering CSC648/848 Section 02

Spring 2018

Team 09

Milestone 4

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History Table:

Product Summary:

US Environmental believes that the responsibility of keeping parks and the environment clean falls on US. Our web application allows users to:

- All users shall be able to view posts about parks.
- All users shall be able to search for parks.
- All users shall be able to filter searches.
- Registered users shall be able to report issues.
- City Managers shall be able to see all issues on dashboard.
- City Managers shall be able to mark issues as completed.
- Admins shall be able to delete posts.

Our product is unique from other similar sites is that we have administrators and moderators that can delete issues that are not relevant or are completed. These administrators allow the park pages to be as clean as possible by filtering out spam as well as old issues. We can be reached at <http://www.us-environmental.com/>.

Currently, we only serve parks in the San Francisco Bay area but we will be expanding very soon. Make sure to register so that you can keep up with the latest updates!

Usability Test Plan:

Test Objectives: The purpose of this test plan is to see if the search function works properly with filters as well as the design. Reviewers will critique the search function by typing in fields that are appropriate as well as inappropriate fields for certain filtered searches. For example, reviewers may type in city names when filtering search for zip code. An appropriate outcome for this particular case is that the search returns a message along the lines of “Please enter a 5 digit zip code”.

Test Plan:

1. System Setup: Reviewers will be testing the search function as Unregistered Users and must set up the local environment to do so. First, Ubuntu must be installed as the virtual machine. Once installed, apache2 as well as mysql must also be installed in the Ubuntu machine state. After the installation of required software in the machine state, we must create the directory. Then, enable virtual host files and the local environment will be set up.
2. URL: Since the search function is the focus of the test, www.us-environmental.com will be the URL we go to.
3. Completion Criteria: Once loaded, reviewers can type anything they desire in the search bar. Results must be appropriate for any given query. For example, if a reviewer enters the name of an actual park, the park must show up in the search results. However, if a reviewer enters in a park name while filtering for zip code, the results should either return the actual query, or it should return a message the requires the reviewer to enter 5 digit zip codes only between 94000 and 95000 (since our web application only currently delivers to the San Francisco Bay Area). Also, reviewers must load the same page twice; once in Firefox and once in Chrome. Results must be identical in order to be considered passing.

Likert Scale Questions:

The search returned correct results. (check one)

☐ Strongly disagree ☐ Disagree ☐ Neither agree or disagree ☐ Agree ☐ Strongly agree

The search works for both Chrome and Firefox. (check one)

☐ Strongly disagree ☐ Disagree ☐ Neither agree or disagree ☐ Agree ☐ Strongly agree

The filters return correct results. (check one)

☐ Strongly disagree ☐ Disagree ☐ Neither agree or disagree ☐ Agree ☐ Strongly agree

QA Test Plan:

Test Objectives: The objective of this test is to make sure that the search function works properly regardless of input. Testers will type in results that do not match the filtered type as well as outlandish searches such as Hyundai or bus. The results must return a sufficient response such as “There was no ‘bus’ found”, but still list results.

Hardware and Software Requirements:

- Must be a computer with access to the internet.
- Must have Virtual Machine downloaded
- Virtual Machine must be Ubuntu
- Apache must be downloaded.
- mySQL must be downloaded.
- Local host must be created.
- One of three browsers must be used (Firefox, Chrome, Safari).

Actual Test Cases:

Test #	Test Title	Test Description	Test Input	Expected Output	PASS or FAIL
1	Filter ZIP	Enter a city when filtering for zip code	San Mateo	Please enter a 5 digit zip code	PASS
2	Gibberish	Enter gibberish	@#(1jg	5 parks nearby	FAIL
3	Standard Input	Enter a city while filtering for city	San Francisco	Parks in SF	PASS

Code Review:

The coding style we used comprises of:

- Author must include name at the beginning of the code.
- Each function must be titled with its purpose.
- Must indent for each new block of code.
- Nested code must be indented.
- } must be in a line by itself to signal the end of a block.

The following code was submitted to be reviewed and the Front End lead was the reviewer. Her email response follows the code block with the edits required bolded in the block.

```
<body>  
  <!-- Navigation Bar -->  
  <nav class="navbar navbar-inverse">  
    <div class="container-fluid">  
      <div class="navbar-header">
```

```

        <button type="button" class="navbar-toggle" data-toggle="collapse" data-
target="#myNavbar">
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
    </button>
<div class="collapse navbar-collapse" id="myNavbar">
    <ul class="nav navbar-nav navbar-left">
<!-- Logo -->
        <br>
    </div>
    <label class="col-sm-2 control-label">Comment</label>
    <div class="col-sm-9">
        <textarea class="form-control" rows="3" name="comment"
form="usrform" placeholder="Comment..." required></textarea>
    </div>
    <label id="required" class="col-sm-1 control-label" style="color:
red">*Required</label>
    </div>
    <div class="form-group">
        <label class="col-sm-2 control-label">Photo</label>
        <div class="col-sm-9">
            <input class="form-control" type="file" name="photo"
accept="image/png,image/jpeg">
        </div>
    </div>
    <div class="form-group">
        <label class="col-sm-2 control-label"></label>
    </div>
    <button id="cancel" type="submit" class="btn btn-primary btn-
lg">Cancel</button>
    <button id="save" type="submit" class="btn btn-primary btn-
lg">Save</button>
    </form>
<!-- Footer bar bottom -->
<footer class="navbar-default navbar-fixed-bottom">
    <div class="container-fluid">
        <span>◆ Copyright: CSC 648 Software Engineering Class Section 02 Team
09</span>
    </div>
</footer>
</body>
</html>

```

Response:

Hey Jerry,

I had reviewed the code and the page. Everything looks good.

Thanks for the effort!!

There are minor changes that need to be handled,

The issue field should be a "text area" instead of text field.

Title should be a "text field" instead of drop down.

Please make these changes to the code when you get time.

Best,

Krishna Sirisha

Security:

Major Assets that are protected:

- Name
- Email
- Passwords (encrypted using AJAX and JQuery)

Self-Check: Adherence to Original Non-Functional Specs:

1. Application shall be developed, tested and deployed using tools and servers approved by Class CTO and as agreed in M0 (some may be provided in the class, some may be chosen by the student team but all tools and servers have to be approved by class CTO). **Done**
2. Application shall be optimized for standard desktop/laptop browsers e.g. must render correctly on the two latest versions of all major browsers: Mozilla, Safari, Chrome. **Done**
3. Application shall have responsive UI code so it can be adequately rendered on mobile devices but no mobile native app is to be developed **Done**
4. Data shall be stored in the team's chosen database technology on the team's deployment server. **Done**
5. Application shall be media rich (at minimum contain images and maps) **Done**
6. No more than 50 concurrent users shall be accessing the application at any time **Done**

7. Privacy of users shall be protected and all privacy policies will be appropriately communicated to the users. **Done**
8. The language used shall be English. **Done**
9. Application shall be very easy to use and intuitive. **Done**
10. Google analytics shall be added **Done**
11. No e-mail clients shall be allowed **Done**
12. Pay functionality, if any (e.g. paying for goods and services) shall not be implemented nor simulated. **Done**
13. Site security: basic best practices shall be applied (as covered in the class) **Done**
14. Modern SE processes and practices shall be used as specified in the class, including collaborative and continuous SW development **Done**
15. The website shall prominently display the following exact text on all pages *"SFSU Software Engineering Project, Spring 2018. For Demonstration Only"* at the top of the WWW page. (Important so as to not confuse this with a real application). **Done**