

## **Milestone5 - Test Plan - Boulder Nature Guides**

Team Members:

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Scope: Testing will mainly center around the login and profile system. There is plenty of variability within this system, and therefore many cases that must be tested. The contact us form and map will also be tested. Testing will be done before and after the website is deployed to heroku (to ensure functionality is maintained during deployment).

Approach: Testing will be done using the mocha and chai. This allows us to test the code even after changes have been made, as opposed to manually testing each feature, which would have to be done every time the code was changed. If bugs are found, they will be reported to the group, and the person who wrote that code will be assigned to fixing the bug (since they will be the most familiar with it).

Resources:

<https://mochajs.org/>

<https://www.chaijs.com/>

Schedule: Again testing will be done both before and after heroku deployment. Since the website is being deployed sometime this week (probably around the weekend), initial testing will occur on Friday. Once deployed, testing will be done early in the week, to ensure time to fix any bugs before the project demonstration.

### **Feature 1: Interactive Map**

User Acceptance Test Cases:

- User should be able to see locations/pins on the map

Locations from the database are displayed on the map according to their latitude and longitude.

- User should be able to filter locations that are on the map according to activities (hiking, skiing, etc)

Locations in the database contain information about what type of activity the location provides.

Locations can be filtered on the map according to these activities.

- Users should be able to click on locations on the map to view more information regarding them.

Clicking on a location displays information stored in the database for the user.

Testing:

To test this feature we will evaluate the acceptance criteria as:

- 1) Locations are visible on map.
- 2) Locations are properly filtered for all available activities.
- 3) Information about locations is visible when locations on the map are selected.

Testing for functionality will be done manually by users on the Map page. By simply navigating to the page, users will be able to check if locations are properly displaying on the map or not. By clicking on an option for the filter, users should see locations on the map for all other options disappear. And finally, by clicking on a location the map, information about the location should be displayed to the user.

## **Feature 2: Login System and Profile Page**

User Acceptance Test Cases:

- When registering, a user must fill in username, email, password and confirm password fields that satisfy all the requirements

Passwords must contain at least one uppercase letter, one number, and be at least 8 characters long. Emails must be in the form of abcd@efgh.domain. This information is added to the database and the password is encrypted.

- Login requires a username and password. When logged in, the user's browser is sent an authentication token cookie

Username and password must match an entry in the database.

- When a user is logged in they can view and edit their profile page

Users have the ability to edit their profile, including a user bio with restrictions of a maximum of 160 characters for a short bio and a maximum of 1000 characters for a long bio. Once submitted the updated profile is stored in the database.

- Once logged in (user has authentication token), user can browse other profiles

Each user originally has a generic profile page, with placeholder text. A profile is added to the browseProfiles page once edits have been made to the page.

Testing:

To test this feature we will evaluate the acceptance criteria as:

- 1) A user cannot register or login without completing all of the mandatory fields correctly as described above.
- 2) Upon registration, a user's information is stored in the appropriate database.
- 3) A logged in user can view and edit their profile page, and these edits are saved in the database.
- 4) A logged in user can browse other profiles.

Testing will first be done manually on the login/registration page, and then the database will be examined. Users will first attempt registration and login while purposefully omitting required fields and criteria for fields to check that the application is prompting users to register/login with the proper information. Users will then attempt to view and edit their profile page, specifically

their bio. The changes made should appear on the page. Users will then attempt to browse other profiles, which should be visible to the user. Finally, the appropriate database will be checked to see if the user's information was stored upon registration, and if more information was stored upon the user editing the profile.

### **Feature 3: Contact Us Form**

User Acceptance Test Cases:

- User should be able to send form with correct fields

The contact us form requires a name, valid email address, and a message in order to be successfully submitted.

- Form does not allow submission when the user provides invalid fields

Each field (name, email, message) must all be filled out in order to submit the form. Email addresses must also include “@” in order to be considered valid. Email must also contain a domain as well (.com, .net, etc).

- The form provides the user with specific feedback about the error

If the user attempts to submit the contact us form without meeting the above criteria the user is alerted with information about which field is currently invalid.

Testing:

To test this feature we will evaluate the acceptance criteria as:

- 1) A user cannot submit a form without completing all of the mandatory fields correctly as described above.
- 2) Contact Us form sends email to email address specified by API key.

To test, users will navigate to the contact us page and test functionality by purposely failing the user acceptance test cases one by one to check if the contact us page is behaving correctly. Users

will then provide the correct fields for the page and submit the form. If the page is behaving correctly, the form will be sent to the email address specified by the API containing all of the information/fields provided by the user.

### **Individual Contributions:**

#### **Maigh:**

[https://github.com/CSCI-3308-CU-Boulder/3308SP21\\_section013\\_2/commit/7313fdb1067d3eeeaf2f6100d17d68a1bf93e615](https://github.com/CSCI-3308-CU-Boulder/3308SP21_section013_2/commit/7313fdb1067d3eeeaf2f6100d17d68a1bf93e615)

Finished setting up and debugging the sql files that are for the map, templated search queries for group members to fill out, added photos to the map, minor logistical items such as TA standup notes and cleaning up old files in git, and have taken time to learn about implementing the heroku deployment.

#### **Wayne:**

[https://github.com/CSCI-3308-CU-Boulder/3308SP21\\_section013\\_2/commit/20875e5b8f3be60f2f840db387ba70edbaa5f075](https://github.com/CSCI-3308-CU-Boulder/3308SP21_section013_2/commit/20875e5b8f3be60f2f840db387ba70edbaa5f075)

Added pictures for the popups in the map. These pictures will show up in the map if the user hovers their cursor over the marker.

#### **Ryan:**

[https://github.com/CSCI-3308-CU-Boulder/3308SP21\\_section013\\_2/commit/2a15d3fe2831aa486711d48f4934f37bf93d36bb](https://github.com/CSCI-3308-CU-Boulder/3308SP21_section013_2/commit/2a15d3fe2831aa486711d48f4934f37bf93d36bb)

Completed login system (including registration and logout), profile system (authenticated users can create profiles, and view other users' profiles), and finished map generation using data from the database (based on Ethan's template). Completed other minor tasks such as helping write sql insert statements for the map locations.

**Ethan:**

[https://github.com/CSCI-3308-CU-Boulder/3308SP21\\_section013\\_2/commit/3ad4b1338236d02ea5fa364796cdacd2dbbac48a](https://github.com/CSCI-3308-CU-Boulder/3308SP21_section013_2/commit/3ad4b1338236d02ea5fa364796cdacd2dbbac48a)

Finished styling the website, added pictures for map popups, added sql queries for map data, and contributed a small amount to node integration.

**Cal:**

Worked on milestone and search queries for databases.

[https://github.com/CSCI-3308-CU-Boulder/3308SP21\\_section013\\_2/commit/62dce5de0a1dfaea37e52963d4d0cf866b4833ad](https://github.com/CSCI-3308-CU-Boulder/3308SP21_section013_2/commit/62dce5de0a1dfaea37e52963d4d0cf866b4833ad)

**Jira Board:**

Please zoom in to see the JIRA board better.

Start of April

Q

CBWMRQETMM

Epic

TO DO 3 ISSUES	IN PROGRESS 5 ISSUES	TASKS STRUGGLING WITH	DONE 2 ISSUES
<div><div>As a user I want to add items to a wishlist for later viewing</div><div>LOGIN-SCREEN</div><div>B02-10RO</div></div> <div><div>As a user, I want to be able to share my travel plan with anyone I am embarking on this trip with.</div><div>LOGIN-SCREEN</div><div>B02-21WM</div></div> <div><div>As a user, I want to be able to reset my password should I forget it.</div><div>LOGIN-SCREEN</div><div>B02-18WM</div></div>	<div><div>As a user, I want to be able to see photos of the location on the map</div><div>INTERACTIVE-MAP</div><div>B02-19ET</div></div> <div><div>As a user I want to be able to interact with a map to add to my user experience</div><div>INTERACTIVE-MAP</div><div>B02-12MM</div></div> <div><div>As a user, I want to be able to filter the locations shown on the map to fit my needs</div><div>INTERACTIVE-MAP</div><div>B02-23ET</div></div> <div><div>As a user I want to be able to log in such that I can save searches for later</div><div>LOGIN-SCREEN</div><div>B02-7RQ</div></div> <div><div>As a user I want to have a day planner so I can decide what I am going to do on my day trip in Boulder</div><div>LOGIN-SCREEN</div><div>B02-8WM</div></div>		<div><div>As a new user, I want to make sure that my name, email address, and message are sent to the creators of the webpage and that my email address is valid</div><div>CONTACT-US-FORM</div><div>B02-2CB</div></div> <div><div>As a user, I want to be able to create an account with my email address and a valid password so I can login</div><div>LOGIN-SCREEN</div><div>B02-9CB</div></div>