

# Testing Plan for Dog Dates



## *ChangeLog*

Version	Change Date	By	Description
version number	Date of Change	Name of person who made changes	Description of the changes made
1.0.0	06/03/2022	Shawn Lanting	Original Log
1.1.0	30/03/2022	Shawn Lanting	Added Acceptance Testing for 'Find Playdates' and 'My Matches'

# 1. Introduction

## 1.1 Scope

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We will be testing all the main features of the app as they are implemented.

Sprint 2:

- Home Page
- Sign Up (POST)
- Log In (POST)
- User Profile (GET, PATCH, DELETE)

Sprint 3 & 4:

- Like (GET, PATCH)
- MATCH (GET, PATCH)

## 1.2 Roles and Responsibilities

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Each Sprint will have users taking on different roles. For sprint 2 the roles where:

Name	GitHub username	Role
Sammul To	Sammulto	Full Stack Development
Yelizaveta Yashin	LizaYa	Full Stack Development
Zhijie Zheng	ZhijieZheng-UM	Operations, Testing
Shawn Lanting	Aiphox	Operations, Testing

## 2. Test Methodology

### 2.1 Test Levels

#### Unit and Integration Testing

For sprint 2 the front end and back end will have automated unit and integration testing. Some features, like correct page loading and redirection will be unit testing, but features that involve multiple levels of the program will be both unit and integration tested. This will include the following main features:

- Home / Login
  - o We will make sure that the page loads and displays correctly as well as buttons redirect to the correct pages
  - o We will also test login to make sure it returns the proper results
- Sign up (front end and back end)
  - o We will test that the page loads and displays correctly and that buttons submit information and redirect to the correct pages.
  - o We will also test field validation for the submission form and that it returns the proper codes upon submission.
- User Account (front end and back end)
  - o We will test account access (no access if expired login)
  - o Have appropriate warnings and verifications displayed when deleting or updating an account
  - o We will make sure that get/ update/ delete user info is sending the proper information.

#### Acceptance Testing

Although passing the unit and integration tests will signal that the program works and is bug free, it is important to go through the site and make sure it performs properly for a human.

Acceptance testing will be executed as follows:

User Executes	Expected Response
<b>Registration Test:</b>	<b>A user will be able to register a new account</b>
On home page click the Register button	User should be taken to the registration page
Fill in the fields with your information and click sign up. We will refer to this account as user (a)	User should be taken to the user navigation page where they see buttons to 'Find Play Dates', 'Edit My Profile', 'My Matches'
Click log out	User should be taken back to the home page where they have the option to register or log in
<b>Log In Test</b>	<b>A user will be able to log in to their account</b>
On the home page, click log in	User should be taken to the log in page
Enter user email and password for user (a) then click log in	User should be taken to the user navigation page where they see buttons to 'Find Play Dates', 'Edit My Profile', 'My Matches'
Click log out	User should be taken back to the home page where they have the option to register or log in

<b>Update Profile Test:</b>	<b>A user will be able to update their profile information</b>
From the home page, click log in	User should be taken to the log in page
Enter user email and password for user (a) then click log in	User should be taken to the user navigation page where they see buttons to 'Find Play Dates', 'Edit My Profile', 'My Matches'
Click Edit My Profile	User should be taken to update account profile page
Change the fields and click update profile	User should be shown a confirmation that the account was updates and a prompt to log in again.
Click Log In at the top right corner of the screen	User should be taken to the log in page
Enter information and click log in	User should be taken to the account page and see account information
Click log out	User should be taken back to the home page where they have the option to register or log in
<b>Find Play Dates Test:</b>	<b>A user will be able to see a list of other users and like or dislike them</b>
Register for three new accounts (b,c,d) by following the steps under 'Registration Test'. Two of the accounts (b,c) should use 'Winnipeg' as their city and one (d) should use 'Toronto'.	User should be able to successfully create three new accounts.
Log into account (a)	User should be taken to user options page
Click Find Play Dates	User should be taken to a page where other user profiles are shown. There should be a profile for user (b). It should have a user name, picture, dog name, location, discription, and buttons to 'like' or 'dislike'
Click like button	User should see a new profile displayed for user (c)
Click dislike button	User should see a page saying there are no new profiles to view at this time. User should not see a profile for user (d), since the cities are different.
Click log out	User should be taken back to the home page where they have the option to register or log in
<b>View Matches Test</b>	<b>A user will be able to see a list of other users they have matched with</b>
Log in as user (a)	User should be taken to user options page
Click on View Matches	User should be taken to View matches page where they should see a profile for user (b) which included a user name, picture, dog name, location, and discription. User should not see profiles for users (c) and (d)
Log out	User should be taken back to the home page where they have the option to register or log in

<b>Test Delete Account</b>	<b>A user will be able to delete their account</b>
Log in as user (a)	User should be taken to user options page
Click Edit My Profile	User should be taken to update account profile page
Click Delete Account	User should be shown a prompt warning them that they are deleting their account
Click go back	User should return to the account page
Click delete account and then click delete my account	User should see a page saying we hope to see you again
Click log in at the top right corner and enter log in information	User should not be allowed to log in since account is deleted
Click Dog Dates button at the top left	User should be brought back to the home page

## 2.2 Test Completeness

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We expect all tests to pass for each push to the associated directory.

# 3. Resource & Environment Needs

## 3.1 Testing Tools

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For our automated testing we use GitHub Actions – Automated Testing.. This will automatically run our React Testing Library tests for the backend when there is a push to the backend directory, and test the frontend when there is a push to the frontend directory.

## 3.2 Test Environment

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Testing is done remotely by GitHub. It is agnostic to the user's machine as it creates it's own Linux Ubuntu environment to run the tests.

# 4. Terms/Acronyms

Make a mention of any terms or acronyms used in the project

TERM/ACRONYM	DEFINITION
API	Application Program Interface
AUT	Application Under Test
CI / CD	Continuous Integration / Continuous Deployment
MERN	MongoDB, Express, React, Node.js