## **Testing Plan**

Team 7

Project Name: Meadle

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Repository: <a href="https://github.com/vidia/meadle">https://github.com/vidia/meadle</a>

https://github.com/vidia/meadle-android https://github.com/mhoc/meadle-backend

# Severity 1

Test Case 001 APP Launch App

System - Android App

Severity - 1

Type - Functionality

Instructions:

- 1. Find the application in the Android phone's list of applications.
- 2. Tap on the app icon to launch the application.

**Expected Result:** 

1. App opens to a screen with the option to join or create a new Meadle.

Test Case 002 APP Create A Meadle (From Requirement 1)

System - Android App

Severity - 1

Type - Functionality

Instructions:

- 1. Open the application
- 2. Select "Create Meadle"

Expected Result:

1. A new Meadle ID will be displayed on the screen, along with a button to share the ID with a friend.

Test Case 003 APP Join a Meadle (From Requirement 2)

System- Android App

Severity- 1

Type- Functionality

Instructions:

- 1. On one phone, create a meadle
- 2. On another phone
  - a. Open the application
  - b. Select "Join Meadle"
  - c. Insert your ID

d. Press submit

## Expected Result:

1. The first phone should get a push notification that you have joined.

Test Case 004 APP Receive a list of possible meeting locations (From Requirement 3)

System- Android App

Severity- 1

Type- Functionality

Instructions:

- 1. Join/Create A Meadle
  - a. If Creating a Meadle, wait for another user to join
  - b. If Joining a Meadle, insert your code/id and press submit.
- 2. Make sure all users have joined

**Expected Result:** 

1. A loading animation will run until a list of possible meeting locations is returned.

Test Case 005 API Users2 join Meeting:

```
System - Server
```

Severity - 1

Type - Functionality

Instructions:

- 1. Send a PUT Request to /meeting/{id}/join
- 2. In the Body of the request, send the JSON Data:

{ "u:

"userId": "unique user id of joiner, static throughout each meeting",

"lat": 12.34, "lng": 56.78

}

**Expected Results:** 

- 1. If the id of the meeting id valid, then the server will send a 200 response
- 2. If the id of the meeting does not exist, then the server will send the JSON Response:

{

"error": 404,

"message": "The specified meadle does not exist."

}

Test Case 006 API Get Meeting:

System - Server

Severity - 1

Type - Functionality

Instructions:

- 1. Send a Get request to /meeting/{id}/
- 2. In the HTTP headers, include the userId to authenticate that only one of two users are accessing the meeting information
- 3. Where id is the id of a specific meeting, assigned when a meeting is created Expected Result:
  - If the meetingId is valid, and the userId matches one of the two users involved in the meeting then the response is a JSON formatted response HTTP Response 200

```
"id": "meeting id",
                          "datetime": "time of meeting",
                          // value is null until all users have joined
                          "topLocations": {
                           "yelpid": 5,
                           "yelpld2": 4, ...
                          // value is null unless voting is complete
                          "location": "yelp id"
               2. If the meetingId is not valid, then it will send
                          "error": 404,
                          "message": "The specified id was not found"
               3. If the UserId is not valid,
                          "error": 401,
                          "message": "You are not authorized to view this meeting"
                         }
Test Case 007 API Create Meeting - POST /meeting/{id}
       System - Server
       Severity- 1
       Type - Functionality
       Instruction:
               1. Send a POST request to /meeting/{id}
               2. In the POST Body, JSON data needs to be included in the format
                          "userId": "unique user id of joiner, static throughout each meeting",
                          "lat": 12.34,
                          "lng": 56.78,
                          "datetime": "date and time of meeting"
```

}

### **Expected Result:**

# Severity 2

Test Case 008 SERVER Determine final meeting location (From Requirement 5)

System- Server

Severity- 2

Type- Functionality

Instructions:

- 1. Users 1 will send in a request to the server his or her top 5 ranked locations from the Android App
- 2. Users do will also send the same information to the server
- 3. The server will perform an selection algorithm the and decide which location is best for both and send it to the users

#### **Expected Result:**

1. The android application will go to a new screen containing information about the meeting location.

Test Case 009 APP Receive a notification when other people Join my Meadle (From Requirement 7)

System- Android App

Severity- 2

Type- Functionality

Instructions:

- 1. Create a meadle
- 2. Have a second user join the meadle

#### Expected Result:

1. Notification should appear on the first device to notify that the second user has joined.

Test Case 010 APP Vote on A List of Possible Meeting Locations

System- Android App

Severity- 2

Type- Functionality

Instructions:

- 1. Join/Create A Meadle
- 2. Once involved in a Meadle, a list of possible meeting locations will appear.
- 3. Arrange the five locations in order from most desired to least desired
- 4. Press enter to submit your results.
- 5. Wait for the other party to submit their results.

#### **Expected Result:**

1. You receive a notification that the votes were sent

Server

Test Case 011 API Verify meeting data is expired

System - Server

Severity - 2

Type - Functionality

Instructions:

- 1. Create a collection(mongodb) with a specified expiration (12-24 hours?)
- 2. Create a meeting (look at test cases above)
- 3. After the specified number of hours, either look up the meeting in the database (with the meeting id) or send a Get request to /meeting/id

#### **Expected Result**

- 1. If the meeting is looked up in the data, then no document should be found
- 2. If a GET request is sent, then the response will be

```
{
  "error": 404,
  "message": "The specified meadle does not exist."
}
```

Test Case 012 API Only participants in a meadle should be able to access that meadle.

```
System - Server
Severity - 2
Type - Security/Functionality
Instructions -
```

1. Make a request to a valid meadle id with an invalid user id after a meadle has been created.

## **Expected Result:**

1. Server should return an Unauthorized access.

```
{
    "error": 401,
    "message": "You are not authorized to view this meeting"
}
```

Test Case 013 Locations should be close to the midpoint.

System - Server

Severity - 2

Type - Functionality

Instructions:

- 1. Create a meadle.
- 2. Have someone else join this meadle at a known location.

#### **Expected Result:**

1. Possible meeting locations returned to the app should be roughly (+/-10%) equidistant from each participant in the meeting

## Severity 3

Test Case 014 APP Display link to google maps for easy navigation (From Requirement 6)

System - APP

Severity - 3

Type - Functionality

Instructions:

- 1. Follow above instructions to start a meadle
- 2. Follow above instructions for users to join meadle
- 3. Follow above instructions for having users vote on a location
- 4. The app will display the location on the screen with information from Yelp about the destination.

## **Expected Result:**

1. Decided location should display on the screen with a button or link that sends that location to the default maps app for navigation.

## Test Case 015 Server No Sharing of Personal Information

System - Server

Severity - 3

Type - Functionality

Instructions:

1. Create a meeting and have another user join this meeting

## **Expected Result:**

- 1. Make sure no user identifiable data is available on the server
  - a. No phone number, address, etc
- 2. Make sure that locations are deleted after a certain period of time (See above for expiration of meeting data)

Test Case 016 Server Make sure the app does not support more than two users

System- Server

Severity- 3

Type- Boundary Value

Instructions:

- 1. Follow above instructions to add two users to the meadle.
- 2. Attempt to add a third user to the meadle (using the /meadle/{id}/join endpoint)

#### **Expected Result:**

1. Request should return with a failure and the user should not be added to the meadle.

#### Test Case 017 Android Battery Use

System - App

Severity - 3

Type - Functionality

Instruction:

- 1. Keep the application installed for 72 hours, keeping it in the foreground for no less than one hour during this time.
- 2. Open battery usage reports (Instructions vary by phone)

## Expected output:

1. Meadle should be within the bottom 30% of all applications installed when ranked by battery usage.

### Test Case 018 GitHub Code Storage

System - All

Severity - 3

#### Type - Nonfunctional

#### Instruction:

- 1. Open a terminal on a Linux computer.
- 2. Run "git clone <a href="https://github.com/vidia/meadle.git">https://github.com/vidia/meadle.git</a>"
- 3. Run "git clone <a href="https://github.com/vidia/meadle-android.git">https://github.com/vidia/meadle-android.git</a>"
- 4. Run "git clone https://github.com/mhoc/meadle-backend"

#### Expected output:

- In the current directory, the meadle directory should contain all of our documentation and references to the meadle-android and meadle-backend repositories.
- 2. In the current directory, the meadle-android directory should contain the most recent version of our Android code.
- 3. In the current directory, the meadle-backend directory should contain the most recent version of our backend code.

## Test Case 019 GitHub Main Repository Update

System - All

Severity - 3

Type - Nonfunctional

#### Instruction:

- 1. Open a terminal on a Linux computer.
- 2. Run "git clone --recursive https://github.com/vidia/meadle.git"
- 3. Run "cd meadle"

#### Expected output:

1. In the current directory, meadle/meadle-android and meadle/meadle-backend should contain the most recent version of those repositories.