Team Members:
- Guy Margalit
- Connor Kerry
- Mason Markle
- Han Yin

Project Title: Hotspot

Automated Tests:

The automated tests built for hotspot serve to verify three main features of the app:
1) Registration of hotspot properly saves login and password information
2) Reading user information from the database returns proper results.
3) Logging into the application throws a proper identification key.

Below is a screenshot of our testing procedure, and the 'pass' events. The automated tests are run from python3's unit testing protocol: 'unittest'. It was impossible to perform unit test through an automated CI client (like Travis CI) because our server (and it's execution) contain confidential api key information that we cannot push to a public github repository.

```
Connors-MacBook-Pro:hotspotTesting Connor$ python3 hotspotdatabaseTest.py
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100    87  100    51  100    36    688    486 --:--:-- --:--:-- --:--:--   689
Successfully logged into database.

.  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100    78  100    43  100    35    588    478 --:--:-- --:--:-- --:--:--   589
Successfully added user to database.

  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100    63  100    28  100    35    356    445 --:--:-- --:--:-- --:--:--   448
There was an error reading from database

.  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100   378  100   378    0     0   5309      0 --:--:-- --:--:-- --:--:--  5323
Successfully read hotspots from database.


.
----------------------------------------------------------------------
Ran 3 tests in 0.380s

OK
```

User Acceptance Tests (UAT Plans):

In order to test the proper execution of the Hotspot application, three user acceptance tests will be conducted: a hotspot post UAT, a hotspot registration UAT, and a hotspot data inquiry UAT. These UAT's are described in further detail below:

1) **Hotspot Post UAT**
   a) Open the Hotspot application on an iphone/android device
   b) Log into the Hotspot application using proper credentials (of an existing account)
   c) Navigate to the 'Add Hotspot' page by clicking the respective button
   d) Enter details on the 'Add Hotspot' page, and submit
   e) Log into SQL database using mySQL
   f) Verify that the database has been updated with the new hotspot, and that the data contained within the database reflects the data inputted into the hotspot app.
   g) Navigate to the home directory of the Hotspot app
   h) Click on the 'View Hotspots' page
   i) Verify that the new hotspot was added to the UI map
   j) Click on the new hotspot and verify the data with regards to the database.

Tap on a spot to see more details!

2) Hotspot Registration UAT

a) Open the Hotspot application on an iphone/android device

b) Navigate to the 'Sign Up' page by clicking the respective button

c) Input credentials to the Sign Up page

d) Log into SQL database using mySQL

e) Verify that the database has been updated with the username and password, and that the data contained within the database reflects the data inputted into the sign up section of the app.

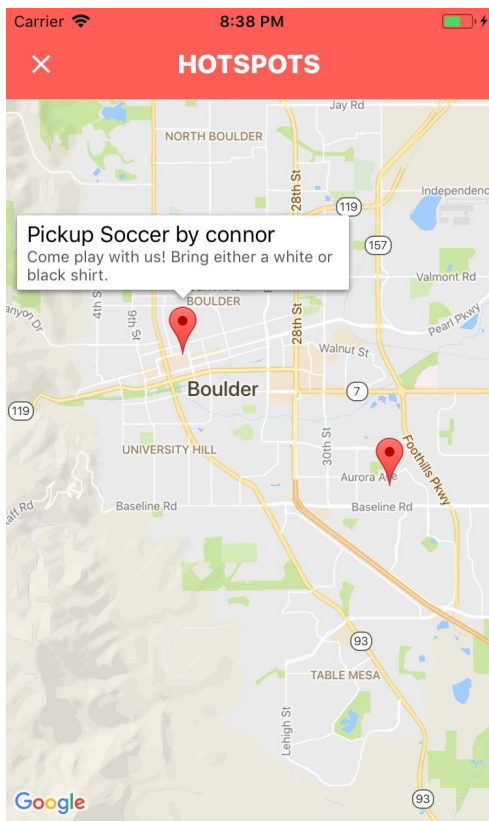Carrier 🛜   8:37 PM   🔋 ⚡

HOTSPOT

USERNAME

_____

PASSWORD

_____

SIGN IN

SIGN UP

3) Hotspot Data Inquiry UAT
   a) Open the Hotspot application on an iphone/android device
   b) Log into the Hotspot application using proper credentials (of an existing account)
   c) Navigate to the 'View Hotspots' page by clicking the respective button
   d) Click on an active hotspot in your local area
   e) Verify that the hotspot menu pulls up, and that data is contained within both title and description fields.
   f) Log into SQL database using mySQL
   g) Verify that the event title and event description match the data under the event's key in the SQL database.

Tap on a spot to see more details!