

## TESTING TEAMSEEK

While our main focus with Teamseek was fast iteration, we also made sure to test each component thoroughly. While we have an automated test suite that hits the REST interface, full integration tests using the HTML+JS frontend were also conducted. Our manual tests included:

- Login
  - Authentication with Github
- Idea Creation
  - Posting of new idea, using a markdown formatted description
  - Changing the progress on an idea
  - Attempting to change the progress on an idea owned by another user (should fail)
  - Adding skills to an idea
- User Profile
  - Editing email works
  - Editing bio works
  - Editing name works
  - Adding skills works
  - Verify created project shows up on this page
- Idea Listing
  - Verify suggested users are showing up
- Invitations
  - Verify that the invitation flow works properly
    - Invite user
    - User receives notification
    - User accepts notification
    - User is a member of the project
  - Verify that the membership request flow works properly
    - Request to join project
    - Project owner gets notification
    - Project owner accepts the notification
    - User becomes a member of the project

Our automated tests are run from `./src/tests/all.py`. This module attempts to load a `Test()` class from each file in `./src/tests/` and run all the child test functions. If any particular test fails, the description of the failure is printed to the console. See figure 1 for sample output from `./src/tests/all.py`. To run the test suite, ensure that `DEBUG_LOGIN=yes`.

```
#####  
# auth #  
#####  
  * Running get_returns_warnings  
  * Running get_project_list  
  Successfully ran 2/2 tests  
  
#####  
# projects #  
#####  
  * Running my_projects_returns_array  
  * Running returns_not_enough_data_without_title  
  Successfully ran 2/2 tests  
  
#####  
# users #  
#####  
  * Running project_members_is_array  
  * Running feed_items_in_correct_format  
  * Running feed_returns_array  
  * Running feed_array_is_non_empty  
  Successfully ran 4/4 tests  
  
Summary  
      8 tests run  
      8 tests passed
```

*Figure 1*