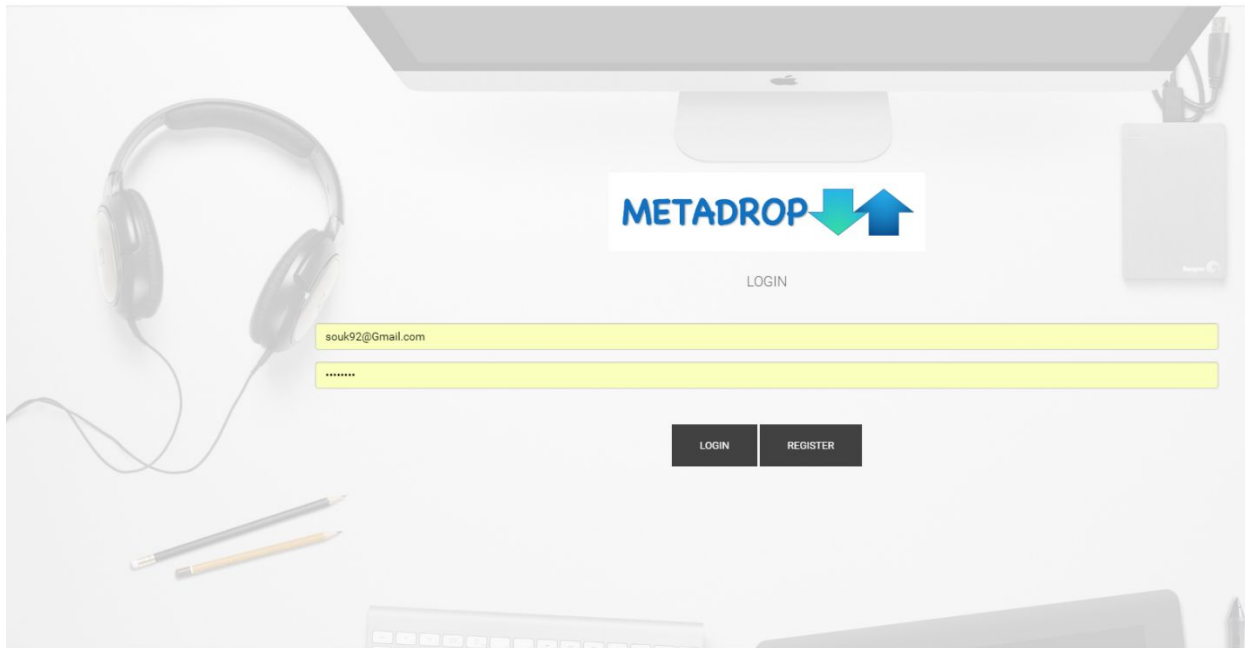


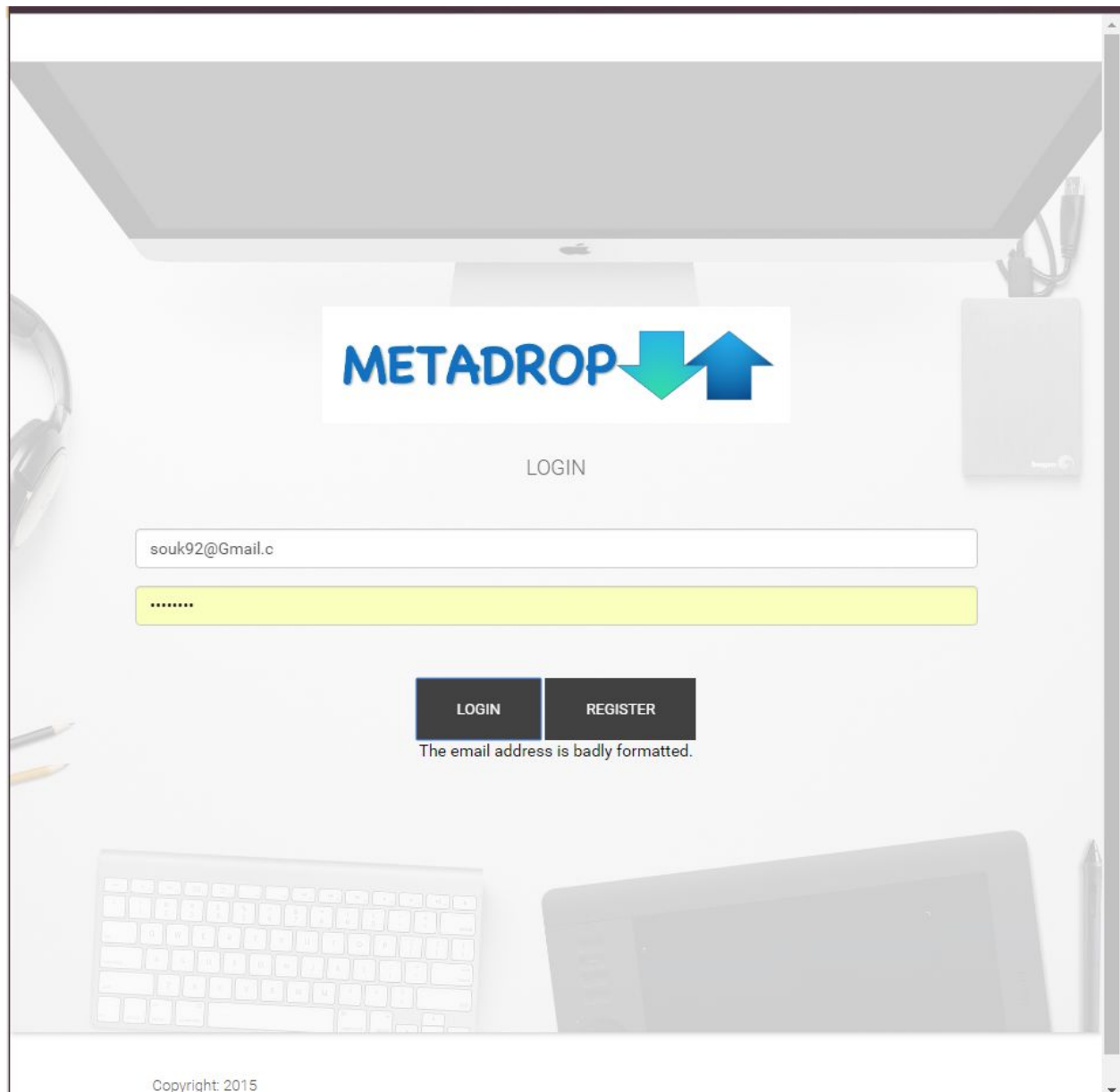
Test Cases



- Above, you'll see a user attempting to register for an account on Metadrop using a username that was previously used. This is part of our **INTEGRATION TESTING (verification)**.
 - o Successful case: We expect the user to receive a message saying "user registered as email. Press login to navigate to the home page." – Which means that this username

has already been registered and that the person trying to login must use the right credentials to access our website.

- o Failed case: User gets redirected to the home page using a username someone already registered.



- The picture above shows a user trying to login with an invalid user name. This is another part of our **INTEGRATION TESTING**. What I am referring to here is not putting the right username in where it's required.

- o Successful case: We expect to see an error message, “the email address is badly formatted,” since our system only accepts usernames in the form of an email address.
- o Failed case: The user successfully logs in to Metadrop and redirected to the home page.



- The picture above shows another form of **INTEGRATION TESTING**; here the user attempts to access Metadrop with a username that does not exist.
 - o Successful Case: We expect the user to receive a message; “there is no user record corresponding to this identifier. The user may have been deleted.”
 - o Failed Case: The user gets access to Metadrop and bypasses our security.

- Above will be a picture of a user uploading a file.
 - o Successful Case: We expect the user to be able to upload a file that's of JSON format.
 - o Failed Case: User can upload any file type; (docx, pdf, php, html, etc...)
- We will also try to test edge cases such as uploading a file that is over our max limit (250MB); **fail case:** uploading a file that's 1GB which is 4X the limit. And **success case:** if the user gets an error that says, "the file is too large." Unfortunately, we don't have that part of the code figured out yet so we haven't done it yet.
- Another possible edge case would be a **Success:** if the user is only allowed to type 300 words in the text field when uploading a file and writing its' description. It would **fail** (of course) if the user uploads a file with a comment that has 300+ words, (4000 or more).

Just about every test described above are mainly **Integration Testing.** We will mainly do **Integration Testing vs. Unit Testing** since our website relies on every component communicating with one another for it to properly work. Our tests above are partial integration since we haven't gotten the search function to work. Until the Search function works, we will be running tests such as uploading a file, making sure it works by logging into Amazon Firebase, and checking to see if it was uploaded there.

User Acceptance Testing (validation) will be implemented by Dr. Goggins and possibly the TA's. They will be given all the documents including the; README, Requirements Analysis, User Manual, etc. They will then go through the entire Validation process making sure that what they asked for is what's promised by us.

Unit Testing (verification) is a testing method used to assess individual units or parts of the source code to see if they meet the requirements and are fit for use. When referring to Metadrop, we should be able to test any function or class of the source code individually to determine this. We're verifying that all the units/functions work as expected. Unit testing should be implemented every time you update your code.