System and Unit Tests

Product: RentMyJunk
Team Name: RMJ Development Team
Date: 12/2/2019

The tests here should be executed in a logical order - for example, it makes no sense to delete a post before creating a post.

Because our first sprint only ended up generating some front-end styling and unused code for an entirely Flask based application, tests will only be associated with sprints 2, 3, and 4.

NOTE: We have an automatic CI set up to ensure that the master branch is stable, using Travis CI. It checks for styling issues in Python, and checks for warnings and errors in our front-end and back-end applications. https://travis-ci.org/ntjandra/cse115a

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Registering and Logging In
User story #1 from Sprint #3
As a user, I want to be able to sign up for an account.

Dependencies
None

Scenario
- Open the website
- Navigate to the "Register" page (this can be done via the links on the header of the website).
- Into the fields, type
    a. Email = <sam@email.com>
    b. Username = <Sam>
    c. Password = <password123>
    d. Location = <Santa Cruz>
    e. Bio = <Looking to rent stuff and rent out my stuff>
- Click the "Register" button at the bottom of the page. You should be redirected to the "Login Page".
- Into the fields, type
    a. Email = <sam@email.com>
    b. Password = <password123>
- Click the "Login" button at the bottom of the page. The user should be redirected to the homepage. Additionally, the header text should now read: <Welcome, Sam! Logout>

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Profile Page (Logged In, Your Profile)
User Story #2 from Sprint #3
As a user, I want to be able to look at my profile

Dependencies
Registering, Logging In

Scenario
- If you are already logged in as "Sam", skip to step #2. If not:
    a. Navigate to the "Login Page"
    b. Into the fields, type
        i. Email = <sam@email.com>
        ii. Password = <password123>
    c. Click the button "Login". The user should be redirected to the homepage, with the header text reading <Welcome, Sam! Logout>
- Click on either the profile icon on the sidebar, or the underlined text reading <Sam> in the header. The user should be redirected to a profile page.
- The profile page should have <Sam> in large, bolded text. Under the username should be the following text:
    Looking to rent stuff and rent my stuff out
    Location: Santa Cruz
    This user hasn't made any posts yet.
    and a button labeled "Edit Profile".

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Logging Out
User Story #4 from Sprint #3
As a user, I want to be able to log out securely.

Dependencies

Registering, Logging In

- Make sure you are logged in. If you are not, navigate to the Login page and follow steps #5 and #6 from the test **Registering and Logging In**.
- Click the underlined text <Logout> on the header. The page should reload, and the header text should now read <Welcome! Register / Log In>

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Profile Page (Logged In, Your Profile)
User Story #2 from Sprint #3
As a user, I want to be able to look at my profile

Dependencies
Registering, Logging In

Scenario
- If you are already logged in as "Sam", skip to step #2. If not:
  a. Navigate to the "Login Page"
  b. Into the fields, type
     i. Email = <sam@email.com>
     ii. Password = <password123>
  c. Click the button "Login". The user should be redirected to the homepage, with the header text reading <Welcome, Sam! Logout>
- Click on either the profile icon on the sidebar, or the underlined text reading <Sam> in the header. The user should be redirected to a profile page.
- The profile page should have <Sam> in large, bolded text. Under the username should be the following text:
        Looking to rent stuff and rent my stuff out
        Location: Santa Cruz
        This user hasn't made any posts yet.
  and a button labeled "Edit Profile".

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Profile Page (Logged Out)
User Story #2 from Sprint #3
As a user, I want to be able to look at my profile

Dependencies
Registering

- If you are already logged out, skip to step #2. If not, follow step #2 from **Logging Out**.
- Navigate to the profile page by changing the URL route to "/profileSam".
- The profile page should have <Sam> in large, bolded text. Under the username should be the following text:

    Looking to rent stuff and rent my stuff out

    Location: Santa Cruz

    This user hasn't made any posts yet.

Profile Page (Logged In, Another User)
User Story #2 from Sprint #3
As a user, I want to be able to look at my profile

Dependencies
Registering, Logging In

Scenario
- Create and login as a new account by following the steps from **Registering and Logging In** with the following values:
    a. Email = <nathan@email.com>
    b. Username = <Nathan>
    c. Password = <password123>
    d. Location = <San Francisco>
    e. Bio = <Looking to rent your junk>
- Click on either the profile icon on the sidebar, or the underlined text reading <Sam> in the header. The user should be redirected to a profile page.
- The profile page should have <Sam> in large, bolded text. Under the username should be the following text:

    Looking to rent stuff and rent my stuff out

    Location: Santa Cruz

    This user hasn't made any posts yet.

    along with numbers for rating the user.

Edit Profile
User story #3 from Sprint #3
As a user, I want to be able to edit my profile.

Dependencies
Registering, Logging In, Profile Pages

Scenario
- Login as <Sam> and navigate to <Sam>'s profile page.
- Click on the "Edit Profile" button at the bottom of the page.
- The user should be redirected to the profile edit page for <Sam>'s profile. Into the fields, type:
    a. Location = <Sacramento>
    b. Bio = <Hoping someone will rent my junk>
    and click the button at the bottom of the page.
- The user should be redirected to <Sam>'s profile page, and the location and bio should change to the values input into the edit page earlier.

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Create Post and Post Info Page
User Story #1 from Sprint #2
As a user I want to be able to create posts so that people can find my junk and rent it

Dependencies
Registering, Logging In

Scenario
- Log in as <Sam>, if you are not already. Navigate to the "Create Post" page by clicking on the create post link on the sidebar.
- Into the fields, type
    a. Title = <Old Computer>
    b. Description = <Busted, old laptop. Almost works, sometimes>
    c. Contact = <123-456-7890>
    d. Location = <Santa Cruz>
    e. Price = <25>
    and click the submit button at the bottom of the page.
- You should be redirected to the post's info page. It will display all of the information you entered previously in the correct place (title at the top big and bold, description in the middle, contact and price below) as well as a link to the post's creator, <Sam>, underlined.
- If you are logged in as <Sam>, there should be buttons at the bottom: <Edit Post> and <Delete Post>. If you are logged out, or logged in as another user, these buttons should be absent.

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Edit Post
User Story #3 from Sprint #2

As a user, I want to be able to edit posts so that I can change the information on my post as I please

Dependencies
Registering, Logging In, Creating Posts

Scenario
- Log in as <Sam>, if you are not already. Navigate to the post you created in the test **Create Post and Post Info Page** (if you have not, follow the steps for that test).
- There should be a button present towards the bottom reading <Edit Post>. Click it, and you should be redirected to the editing page for that post.
- Into the fields, type:
    a. Title = <Brand new laptop>
    b. Description = <A brand new laptop, never used. In perfect condition in almost every way>
    c. Contact = <321-654-0987>
    d. Location = <Sacramento>
    e. Price = <499>
  and click the submit button towards the bottom of the page.
- You should be redirected to the post's info page. The post should be updated with the new information you input into the edit page.

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Searching
User Story #2 from Sprint #2
As a user, I want to be able to search and find posts so that I can find items to rent
User Story #5 from Sprint #4
As a user, I want to search by filters

Dependencies
Registering, Logging In, Creating Posts, Displaying Post Info

Scenario
- Create two posts, logged in as <Sam> (or any other user, if you like), by following the steps in **Create Posts and Post Info Page**:
    a. Title = <New Bike>, <Old Boat>
    b. Description = <A brand new bicycle>, <A canoe - has a lot of holes>
    c. Contact = <111-222-3333>, <sailor@email.com>
    d. Location = <San Jose>, <San Francisco>
    e. Price = <70>, <120>
  then navigate to the search page with the link on the sidebar.
- *Empty search*

a. Click search without entering text into the field. Click <Search>.
b. Results for both the <New Bike> and <Old Boat> fields should be returned. Clicking on the title for the results should redirect to the corresponding post's info page.

- *Search by title*
    a. Verify that the current filter for searching is <Search by title> by clicking on the <Filter> dropdown. Enter <New> into the search field, and click <Search>.
    b. The post <New Bike> should be returned.
- *No Results*
    a. Verify that the current filter is <Search by Title>. Enter <Scrum> into the search field, and click <Search>.
    b. No results should be returned by this search.
- *Search by description*
    a. Click the <Filter> dropdown and select <Search by description>. Enter <has a lot of holes> into the search field, and click <Search>.
    b. The post <Old Canoe> should be returned.
- *Search by location*
    a. Click the <Filter> dropdown and select <Search by location>. Enter <San> into the search field, and click <Search>.
    b. The posts <New Bike> and <Old Canoe> should be returned by this search.

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Delete Post
User Story #4 from Sprint #2
As a user ,I want to be able to delete my old posts so that people won't find my post after I have already rented the item out.

Dependencies
Registering, Logging In, Create Posts

Scenario
- Navigate to the post info page for the post you created in the test **Create Posts and Post Info Page** - follow this steps test if you have not already. Make sure you are logged in as <Sam>.
- Click the button <Delete Post> toward the bottom of the page. You should be redirected to the Home page.
- Click the back arrow on your browser to return to the post info page for the post you just deleted. There should be a message about the post not being found - you may need to reload this page once for this to take effect, due to browser caching.

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Home Page and Post Ownership
User Story #1 from Sprint #4
As a user, I want to get an overview of the website.

Dependencies
Registering, Logging In, Create Posts, Profile Pages

Scenario
- Create four posts with the following information:
    a. Title = <Car>, <Textbook>, <Pencil>, <Suitcase>
    b. Description = <An old, beat up car. Has a lot of miles>, <An outdated version of a textbook for an interpretative dance class>, <Well used pencil, no eraser>, <Good for traveling abroad>
    c. Contact = <444-555-6677>, <321-321-2211>, <090-909-8877>, <suitcases_r_us@email.com>
    d. Location = <Upstate New York>, <Albany>, <Ohio>, <Moscow>
    e. Price = <1200>, <45>, <1>, <15>
- Go the home page. The four posts you created should be listed there, in the order in which you created them (latest first). You should be able to navigate to each post's info page by clicking on the link in each post.
- Navigate to the profile page for <Sam>. These four posts should be listed as this user's posts, as well as any other posts you may have created while logged in as <Sam>.

Reputation
User Story #6 from Sprint #4
As a user, I want to be protected from scammers

Dependencies
Registering, Logging In, Profile Pages

Scenario
- Create 2 accounts (and an account named <Sam> if you have not already, by following the steps from **Registering and Logging In**) with the following in the fields:
    a. Email = <user1@email.com>, <user2@email.com>
    b. Username = <user1>, <user2>
    c. Password = <user1pass>, <user2pass>
    d. Location = <Everywhere>, <Anywhere>
    e. Bio <I rate people high!>, <I rate people low.>
- Log in as <user1>, and navigate to the profile page for <Sam> (using the route "/profileSam" in the URL).
- Select a rating of "5". <Sam> should now have a reputation of "5".

- Log out, then log in as <user2>. Repeat the previous steps, but rate <Sam> with a score of "1". <Sam>'s reputation should now be "2.5".

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Profile With an Image
User Story #5 from Sprint #4
As a user, I want to have an overview of the items to rent

Dependencies
Registering, Logging In, Profile Page

Scenario
- Navigate to the "Register" page.
- Into the fields, type
    a. Email = <johndoe@email.com>
    b. Username = <John>
    c. Password = <password321>
    d. Location = <Dallas>
    e. Bio = <I have pictures!>
- Click <Upload an image> and select an image on your computer (must be 200x200).
- Click "Register".
- Log in as <John>, and navigate to <John>'s profile page (you may be logged in as any user, but it will be faster to log in as <John> to find <John>'s profile page).
- On the profile page, the image you uploaded should be displayed.

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Post With an Image
User Story #5 from Sprint #4
As a user, I want to have an overview of the items to rent

Dependencies
Registering, Logging In, Create Posts, Post Info Page

Scenario
- Log in as any user. Navigate to the "Create Post" page.
- Into the fields, type:
    a. Title = <Camera>
    b. Description = <Takes photos of things>
    c. Contact = <333-333-4444>
    d. Location = <New York>
    e. Price = <22>

- Click upload an image, and select some 1080x1920 or smaller image on your computer.
- Click <Create Post>. On the post's info page, the image you uploaded should be displayed.