LetsGITit - Testing Document

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1.   Project Title and Authors

1.1.   Assigned Team Number

1.2.   Team Name

LetsGITit

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2.   Preface

This testing document provides a list of both black-box and white-box test cases for our web application KnowItAll, and will directly be testing the "core" requirements assigned to us in the D2L document.

3.   Instruction

3.1.   Blackbox Testing: Protractor

Make sure protractor is installed globally. Make sure webdriver-manager is updated to get an instance of a Selenium server running. Open a console and

start the server with "webdriver-manager start." Open another console to run the project (npm start). Finally, open another console to run "protractor conf.js." The tests will start running.

* Note: You should have 3 separate terminals open for testing, 2 of which are the webdriver-manager and the other the node server, both running in the background, and the other to check your test results with the "protractor conf.js" command

3.2. Whitebox Testing: Jasmine, Karma, ngMock module

Make sure the ngMock module is installed (npm install angular-mocks --save dev). Make sure karma is installed (npm install karma --save-dev). Make sure jasmine is installed (npm install karma-jasmine jasmine-core --save-dev). Run "karma start" to start running the tests.

4. Black-box Tests

4.1. Home/Search

4.1.1. Search with empty navbar

Description: User clicks search with an empty navbar while logged in, should return zero results.
Location: blackbox/searchBar.spec.js
Rationale: This will give an empty query and we want to make sure that nothing goes wrong with an empty query in the database
Results: Zero results returned
Any bugs? None

4.1.2. Search with invalid tag

Description: User clicks search with an invalid tag, should return nothing
Location: blackbox/searchBar.spec.js
Rationale: Nominal test, makes sure the db is not returning faulty data
Results: Zero results returned
Any bugs? None

4.1.3.   Search with valid tag, expect nothing

Description: User searches users with a valid tag, should return nothing
Location: blackbox/searchBar.spec.js
Rationale: To make sure that the user/tag filter is working
Results: Zero results returned
Any bugs?   None

4.1.4.   Search with valid tag, expect results

Description: User clicks search with valid tag t1, should return 3 results
                with dummy data population
Location: blackbox/searchBar.spec.js
Rationale: Nominal test, this will make sure that the db is correctly
formatting a query and returning accurate data
Results: Zero results returned
Any bugs?   None

4.1.5.   Search for valid tag, click on table entry

Description: User searches a valid tag and clicks on the first entry in the
                results table, should reroute to the question page
Location: blackbox/searchBar.spec.js
Rationale: This will make sure the results of a search are both in order
and clickable
Results: Correct number of results and rerouting was successful
Any bugs?   None

4.1.6.   Search for valid user, expect output

Description: User searches for a valid user, should return exactly one
                user of that username.
Location: blackbox/searchBar.spec.js
Rationale: This is to make sure that the database correctly queries
users.
Results: One result returned
Any bugs?   None

4.1.7.   User searches for himself

Description: User searches for himself when he's logged in

Location: blackbox/searchBar.spec.js

Rationale: Edge Case, should not be able to click on the link that follows

Results: The link that results is clickable

Any bugs? It gives you the option to follow yourself but this does not do anything.

4.1.8. Search for empty navbar when logged out

Description: Click search with empty navbar while logged out, should return nothing.

Location: blackbox/searchBar.spec.js

Rationale: We want to make sure that the empty query functionality does not change when you log out.

Results: Zero results returned

Any bugs? None

4.1.9. Search for invalid user when logged out

Description: Search for invalid user when logged out, should return nothing.

Location: blackbox/searchBar.spec.js

Rationale: We want to make sure that this functionality is the same when you log out.

Results: Zero results returned

Any bugs? None

4.1.10. Search for valid tag when logged out

Description: Search for a valid tag when logged out, should return 3 results according for t1.

Location: blackbox/searchBar.spec.js

Rationale: We want to make sure you can still search for questions when you are logged out

Results: 3 results returned

Any bugs? None

4.1.11. Search for user 1

Description: Click on user 1 when searched for user 1 and logged out,

should return exactly one result and reroute you to the page with the error message saying you must log in to view a profile.

Location: blackbox/searchBar.spec.js

Rationale: We want to make sure that logged out users cannot view a profile

Results: Correctly returned one user and rerouted to profile page with correct error message.

Any bugs?   None

4.1.12.   Search for tag, click on poll while logged out

Description: Search for tag t1 and click on poll1 when logged out, should return 3 results and then correctly navigate to the poll1 page.

Location: blackbox/searchBar.spec.js

Rationale: We want to make sure that this functionality is the same when you log out.

Results: Correctly returned 3 tags and rerouted to poll1

Any bugs?   None

4.1.13.   Go to home page when logged out

Description: Go to the home page when logged out

Location: blackbox/searchBar.spec.js

Rationale: We want to make sure that the home page will also still load when the user is logged out

Results: Home page loads with > 0 questions in result table

Any bugs?   None

4.2.   Login

4.2.1.   Login with invalid username

Description: Login with invalid username, should return correct error message and not modify cookies.

Location: blackbox/searchBar.spec.js

Rationale: To ensure that the database is queried properly when logging in.

Results: Did not change cookies and showed error message

Any bugs?   None

4.2.2.   Login with valid username and password

Description: login with valid username and password, should get user1's cookies.
Location: blackbox/searchBar.spec.js
Rationale: To ensure that the nominal login case is working correctly
Results: Did change cookies and alerted the user that he/she has successfully logged in.
Any bugs?   None

4.2.3.   Login as a different user when someone is logged in

Description: Login as user 2 while logged in as user 1, should overwrite user1's cookies.
Location: blackbox/searchBar.spec.js
Rationale: To ensure that the login correctly polls user2 from the db and overwrites user1's cookies.
Results: Correctly changed cookies and alearted user he/she had been logged in.
Any bugs? None

4.2.4.   Login as the same user when logged in

Description: Login as user1 while already logged in as user1, should do
                              nothing.
Location: blackbox/searchBar.spec.js
Rationale: To ensure that the login does not have weird behavior on edge cases.
Results: Did nothing
Any bugs?   Did not show an error message saying you are already logged in as that user.

4.3.   Profile

4.3.1.   Try open self profile when logged in

Description: Try seeing if the a logged in user can see his profile
Location: blackbox/profile.spec.js
Rationale: Logged in user should be able to see his profile, because he

has an account created on KnowItAll

Results: User was displayed his profile page after logging in

Any bugs?   None.

4.3.2.   Try open the other profile when you are logged in

Description: User1 who is logged opens the profile of user2

Location: blackbox/profile.spec.js

Rationale: Logged in users should be able to search for other user profiles

Results: User1 was able to see user2's profile page, when logged in

Any bugs?   None

4.3.3.   Try open other profile and check if following

Description: User1 checks user2's profile to see if they are following them

Location: blackbox/profile.spec.js

Rationale: The currently logged in user should be able to follow another existing user

Results: User1 was able to follow user2's profile and the follow button was changed to unfollow accordingly.

Any bugs?   None

4.4.   Create Poll

4.4.1.   Click create button without logging in

Description: A guest user tries to create a poll without logging in

Location: blackbox/createPoll.spec.js

Rationale: A guest user clicking create button should not work

Results: User gets a message to log in

Any bugs?   When user is logged out, our cookies for userID is set to -1. However, we figured out that when the web page is first loaded, the cookies are undefined. So we changed it to check for both conditions.

4.4.2. Click create button with empty 'title' field

Description: Click create button with empty 'title' field
Location: blackbox/createPoll.spec.js
Rationale: Clicking create button without title should not work
Results: User gets a message to fill out the title
Any bugs? None

4.4.3. Click create button with empty 'option' field or only 1 option

Description: User tries to create a poll with title but no options or only 1 option
Location: blackbox/createPoll.spec.js
Rationale: A poll needs at least 2 options
Results: User gets a message that they need at least 2 options
Any bugs? None

4.4.4. Click create button with options not in sequence

Description: User tries to create a poll by filling out option 1 and option 3 instead of option 1 and option 2
Location: blackbox/createPoll.spec.js
Rationale: Putting options in different option boxes out of order should not break the code.
Results: It will successfully create the poll if every other requirements are met
Any bugs? None

4.4.5. Click create button without specifying end date

Description: User fills out the title and options but not date
Location: blackbox/createPoll.spec.js
Rationale: Poll should either have an end date or be opened forever
Results: User gets a message to specify the date
Any bugs? None

4.4.6. Click create button by checking open forever checkbox and specifying the end date

Description: User fills both the end date and checks the open forever

box

Location: blackbox/createPoll.spec.js

Rationale: Poll should only have end date or only open forever since they are mutually exclusive

Results: User gets a message to pick only one

Any bugs? None

4.4.7. Click create button with title that already exists

Description: User tries to make a poll with a title that already exists in existing polls/ratings

Location: blackbox/createPoll.spec.js

Rationale: Poll title should be unique with respect to database

Results: User gets a message to pick a different title

Any bugs? At first, we assumed that titles for poll/rating would be unique. We realized that having same title affected our database. So we added the condition that users cannot create a poll with existing titles

4.4.8. Clicking create button with valid input should direct the user to the home page where it lists all the questions by most recent first

Description: User makes a poll with all the requirements and gets directed to the home page.

Location: blackbox/createPoll.spec.js

Rationale: User should be directed back after creating poll

Results: We compare the current browser URL with our home page URL and it matches

Any bugs? Our server was crashing on some computers while it was okay on others when inserting a poll in the data. We found out that we were inserting null(in string) as our endDate value when it was not defined, which had an unexpected behavior. We resolved it by having two separate sql commands to avoid inserting null as string.

4.4.9. Checking if the poll is in user's page

Description: User creates a poll and checks if it's the user's profile page by searching for the user and opening up his profile

Location:	blackbox/createPoll.spec.js
Rationale:	All the polls from a specific user should be displayed in their profile
Results:	We search for the user and open the user's profile. We check the most recent poll the user created and it matches the title that we created with.
Any bugs?	None

4.4.10. Check if user's poll appear with tags

Description:	User creates a poll with different tags and tries to break it by not following the rules. It should be separated by commas but the user writes something like this: tag1, tag2, , tag3. (Normal one, one with space, and one that comes after putting two commas)
Location:	blackbox/createPoll.spec.js
Rationale:	User's mistake should not break the code
Results:	We search for each tag and the question shows up every Time. We check the title.
Any bugs?	At first, it would insert null tags, or recognize the same tags different if one had white spaces, and etc. We were able to debug this and fix it. It now properly adds the tag to the table

4.5. Create Rating

4.5.1. Click create button without logging in

Description:	A guest user tries to create a rating without logging in
Location:	blackbox/createRating.spec.js
Rationale:	A guest user clicking create button should not work
Results:	User gets a message to log in
Any bugs?	When user is logged out, our cookies for userID is set to -1. However, we figured out that when the web page is first loaded, the cookies are undefined. So we changed it to check for both conditions.

4.5.2. Click create button with empty 'title' field

Description:	Click create button with empty 'title' field

Location:	blackbox/createRating.spec.js
Rationale:	Clicking create button without title should not work
Results:	User gets a message to fill out the title
Any bugs?	None

4.5.3. Click create button with empty 'description' field

Description:	Click create button with empty 'description' field
Location:	blackbox/createRating.spec.js
Rationale:	Clicking create button without description should not work
Results:	User gets a message to fill out the description
Any bugs?	None

4.5.4. Click create button without specifying end date

Description:	User fills out the title but not date
Location:	blackbox/createRating.spec.js
Rationale:	Rating should either have an end date or be opened forever
Results:	User gets a message to specify the date
Any bugs?	None

4.5.5. Click create button by checking open forever checkbox and specifying the end date

Description:	User fills both the end date and checks the open forever box
Location:	blackbox/createRating.spec.js
Rationale:	Rating should only have end date or only open forever since they are mutually exclusive
Results:	User gets a message to pick only one
Any bugs?	None

4.5.6. Click create button with title that already exists

Description:	User tries to make a rating with a title that already exists in existing polls/ratings
Location:	blackbox/createRating.spec.js
Rationale:	Rating title should be unique with respect to database
Results:	User gets a message to pick a different title

Any bugs?	At first, we assumed that titles for poll/rating would be unique. We realized that having same title affected our database. So we added the condition that users cannot create a rating with existing titles

4.5.7. Clicking create button with valid input should direct the user to the home page where it lists all the questions by most recent first

Description:	User makes a rating with all the requirements and gets directed to the home page.
Location:	blackbox/createRating.spec.js
Rationale:	User should be directed back after creating rating
Results:	We compare the current browser URL with our home page URL and it matches
Any bugs?	None

4.5.8. Checking if the rating is in user's page

Description:	User creates a rating and checks if it's the user's profile page by searching for the user and opening up his profile
Location:	blackbox/createRating.spec.js
Rationale:	All the ratings from a specific user should be displayed in their profile
Results:	We search for the user and open the user's profile. We check the most recent rating the user created and it's matches the title.
Any bugs?	None

4.5.9. Check if user's rating appear with tags

Description:	User creates a rating with different tags and tries to break it by not following the rules. It should be separated by commas but the user writes something like this: tag1, tag2, , tag3. (Normal one, one with space, and one that comes after putting two commas)
Location:	blackbox/createRating.spec.js
Rationale:	User's mistake should not break the code
Results:	We search for each tag and the question shows up every time.

Any bugs?	At first, it would insert null tags, or recognize the same tags different if one had white spaces, and etc. We were able to debug this and fix it. It now properly adds the tag to the table

4.6. Poll Page and Rating Page

4.6.1. Users can post a survey anonymously

Description:	Checks if a survey posted anonymously shows displays "Created By Anonymous
Location:	blackbox/PollRating.spec.js
Rationale:	a post should properly display the username as anonymous if the creator had chosen to post anonymously. Tested by going to a post created anonymously to see if the proper label is displayed.
Results:	Works. The post displays "Created By Anonymous" as expected.
Any bugs?	None.

4.6.2. Post displays correct dislike/like values

Description:	Checks if a survey posted anonymously shows displays "Created By Anonymous
Location:	blackbox/PollRating.spec.js
Rationale:	The values should be updated correctly to ensure that only one vote is associated per user. Tested by mocking a user liking a post and then mocking the same user disliking the same post. Check if the number of likes decrements and the number of dislikes increments. If yes, then then the values are properly updated.
Results:	Works. Number of likes decrements to 0 while number of dislikes increments to 1.
Any bugs?	None.

4.6.3. Users can comment on a post

Description:	Checks if a user's comment is displayed on the post in the comments section.
Location:	blackbox/PollRating.spec.js

Rationale: The comment should indicate who commented and display their comment. Tested by mocking a user submitting a comment to a post. Check if the comment appears in the comment list and the user ID is displayed as well as the comment.

Results: Works. The userID matches the user and the comment is correct.

Any bugs? None.

4.6.4. Post should display the creator's username.

Description: Checks if a post displays the correct username of the creator

Location: blackbox/PollRating.spec.js

Rationale: A post should properly display the username of the creator for other users to see. Tested by going to a post created unanonoymously.

Results: Works; displays "user2" on a rating post created by user2.

Any bugs? None.

4.6.5. Post should display the title of the survey

Description: Checks if a post displays the correct title of the survey.

Location: blackbox/PollRating.spec.js

Rationale: A post should properly display the title of the survey for other users to see. Tested by going to a post not created anonymously.

Results: Works. Title matches the expected title "Poll 1".

Any bugs? None.

4.6.6. Poll/rating may have a specific day it closes on

Description: Checks if a post properly indicates the date the survey will close on, which was chosen by the creator

Location: blackbox/PollRating.spec.js

Rationale: A post should indicate what day it closes on so the user will know when the survey will close. Tested by going to a survey that closes on a specific date and checking if the the date is displayed appropriately.

Results: Works.

Any bugs? None.

4.6.7.   Poll/rating may be open forever

Description: Checks if a post appropraite indicates if the survey will be open forever, which was chosen by the creator
Location: blackbox/PollRating.spec.js
Rationale: A post should indicate that it is open forever so the user will know that the survey won't close. Tested by going to a survey that is open forever and checking if the "Open forever" is displayed instead of null.
Results: Works.
Any bugs? None.

4.6.8.   Post may display a description of the survey.

Description: Checks if a post properly displays correct description of the survey.
Location: blackbox/PollRating.spec.js
Rationale: A post may have short description of the survey to help the users understand the survey. Tested by directing to a survey that has a description added by the creator and ensuring that it is properly displayed.
Results: Works.
Any bugs? None.

4.6.9.   Radio buttons return appropriate values

Description: Checks if a radio button returns the appropriate values when selected.
Location: blackbox/PollRating.spec.js
Rationale: Tested the like and dislike radio buttons. If the radio button with name = "like" is selected, the value should be equal to true. If the radio button with name = "dislike" is selected, the value should be equal to false.
Results: Works.
Any bugs? None.

4.6.10.   A user can only comment once per post

Description: Ensures that a user does not comment more than once on a post.

Location:	blackbox/PollRating.spec.js
Rationale:	A user can only submit one comment per poll/rating. Tested with a user who submits a comment on a poll/rating and attempts to submit another comment on the same poll/rating. Check if an error message notifying the user that he already commented is displayed.
Results:	Works. Error message matches "Already commented"
Any bugs?	None.

4.6.11. Only one like/dislike vote is associated per user

Description:	Checks if the user already liked or disliked a post. If the user already did, checks if a message is displayed telling the user that he already liked or disliked a post and that his like/dislike vote is updated.
Location:	blackbox/PollRating.spec.js
Rationale:	There can only be one like/dislike vote associated per user per survey. Tested by mocking a user selecting like and submiting his vote. The user returns to the same poll and submits like again. Check if an error message is displayed saying "Already voted. Updating your like/dislike."
Results:	Works. Error message matches "Already voted. Updating your like/dislike."
Any bugs?	None.

4.6.12. Only logged in users can comment on a post

Description:	Checks if a user is logged in before creating a comment and if a message telling the user to log in is displayed
Location:	blackbox/PollRating.spec.js
Rationale:	Only logged in users should be able to comment on posts. Tested with a guest user to see if an error message telling the user to log in is displayed.
Results:	Works.
Any bugs?	None.

4.6.13. Only logged in users can like or dislike a post

Description:	Checks if a user is logged in before liking/disliking a post and if a message telling the user to log in is displayed
Location:	blackbox/PollRating.spec.js

Rationale: Only logged in users should be able to like/dislike a post. Tested with a guest user to see if an error message telling the user to log in is displayed.

Results: Works.

Any bugs? None.

4.6.14. Only logged in users can vote

Description: Checks if a user is logged in before voting on a post and if a message telling the user to log in is displayed

Location: blackbox/PollRating.spec.js

Rationale: Only logged in users should be able to vote on a post. Tested with a guest user to see if an error message telling the user to log in is displayed.

Results: Works.

Any bugs? None.

4.6.15. Users cannot submit when both dislike/like are unselected.

Description: Checks if a user selected either dislike or like before submitting the like button and if the appropriate error message is displayed

Location: blackbox/PollRating.spec.js

Rationale: Users should not be able submit when neither dislike nor like is selected. Tested by hitting the submit button when a radio button hasn't been selected and seeing if an error message telling the user to select a radio button is displayed.

Results: Works.

Any bugs? None.

4.6.16. Post displays the total number of comments

Description: Checks if the post correctly displays the total number of comments submitted.

Location: blackbox/PollRating.spec.js

Rationale: The post should display how many comments have been submitted on a post. Tested by mocking a user submitting a comment on a post and checking if the total number of comments is incremented.

Results: Works. The number of comments increases by 1.

Any bugs?   None.

4.6.17. Users cannot submit an empty comment

Description: Checks if a user had submitted an empty comment and if the appropriate error message is displayed

Location: blackbox/PollRating.spec.js

Rationale: Users should not be able to submit an empty comment. Tested by hitting the submit button when an empty comment is submitted and seeing if an error message telling the user to write a comment is displayed.

Results: Works.

Any bugs?   None.

4.6.18. User can edit their vote

Description: Checks if the user edited his vote and if the average rating display reflects this change

Location: blackbox/PollRating.spec.js

Rationale: Users should be able to edit their vote. However, this should just update their vote rather than add another vote into the database. Tested this by mocking a user voting for 2, returning to the same post, and revoting for 5. Checked if the average rating displays the value of the latest vote rather than the first vote or the average of the two votes.

Results: Works. The average rating display a 5.

Any bugs?   None.

5. White-box tests

5.1. Login

5.1.1. Users can logout

Description: Logout will display a message that you have logged out.

Location: spec/controllers/Login.spec.js

Rationale: Nominal test, To make sure logout is not tampered with

Results: It worked!

Any bugs?   None!

5.1.2. Logout sets cookies to null

Description: Tests logout sets cookies to null
Location: spec/controllers/Login.spec.js
Rationale: Nominal test, To make sure no one tampers with logout cookies
Results: It works!
Any bugs? None!

5.1.3. Users should not log out twice

Description: Tests logout with null cookies
Location: spec/controllers/Login.spec.js
Rationale: To see what happens when you log out twice
Results: It prints the same error message that it does when you log out
Any bugs? I thought this was confusing so I made it print a message to tell you that you were originally logged out.

5.1.4. Users should log not be able to logout without logging in

Description: Tests logout with undefined cookies
Location: spec/controllers/Login.spec.js
Rationale: To see what happens when you log out when you never log in
Results: It prints nothing!
Any bugs? Changed this so that it would handle undefined cookies in the same way that it handles null cookies.

5.1.5. Login makes correct cookies

Description: Tests login is making correct cookies
Location: spec/controllers/Login.spec.js
Rationale: Nominal test, To make sure no one tampers with login
Results: It worked!
Any bugs? None!

5.1.6. Users cannot log in with incorrect username and password combination

Description: Sets error message for invalid login

Location:	spec/controllers/Login.spec.js
Rationale:	To make sure that it will set an error message if the username/password is incorrect
Results:	It worked!
Any bugs?	None!

5.1.7. Cookies are not created for a bad login

Description:	Tests if login creates cookies for a bad login
Location:	spec/controllers/Login.spec.js
Rationale:	To make sure bad logins do not tamper with cookies
Results:	It worked!
Any bugs?	None!

5.1.8. Cookies should not change for bad login

Description:	Tests if login changes cookies for a bad login
Location:	spec/controllers/Login.spec.js
Rationale:	If a user is already logged in and tries a bad login to another account it should not log the user out if the login to the other account fails
Results:	It worked!
Any bugs?	None!

5.2. Sign Up

5.2.1. Sign up as invalid user

Description:	Attempts to sign up with an invalid user
Location:	spec/controllers/Login.spec.js
Rationale:	If a user signs up with an invalid account we need it to print the correct error message
Results:	It worked!
Any bugs?	None!

5.2.2. Sign up with non USC email

Description:	Attempts to sign up with a non-existing usc email
Location:	spec/controllers/Login.spec.js
Rationale:	If a user signs up with an invalid email that still contains @usc.edu we need to alert them that the email was invalid

Results: It worked!
Any bugs? None!

5.3. Add Poll

5.3.1. Test if a guest user can create a poll

Description: Set all cookies for user to null and try creating a poll. Check if our error message matches with the error message that the controller prints.
Location: LetsGITit/spec/CreatePollController.spec.js
Rationale: Only a valid user should be able to create a poll
Results: SUCCESS CreatePollController Method: $scope.createPoll should not allow GUEST user to create a poll. The error message say: "'Please login to create a poll."
Any bugs? None

5.3.2. Test creating a poll without the title

Description: Set the title to null and try creating a poll. Check if our error message matches with the error message that the controller prints.
Location: LetsGITit/spec/CreatePollController.spec.js
Rationale: A poll should not be created without the title
Results: SUCCESS CreatePollController Method: $scope.createPoll should not allow the user to create a poll without the TITLE
The error message say: "Please provide a title for your survey."
Any bugs? None

5.3.3. Test creating a poll with less than 2 options

Description: Test 1: Give a valid title but provide no option
Test 2: Give a valid title but provide only 1 option
Check if our error message matches with the error message that the controller prints.
Location: LetsGITit/spec/CreatePollController.spec.js
Rationale: A poll should have at least 2 options to vote from
Results: SUCCESS CreatePollController Method:

$scope.createPoll should not allow the user to create a poll without at least 2 OPTIONS
The error message say: "Please provide at least two options for your poll."

Any bugs?   None

5.3.4.   Test creating a poll without an end date

Description: Give a valid title and provide at least two options. Set the end date to null and leave the "Open Forever" checkbox unchecked. Check if our error message matches with the error message that the controller prints.

Location: LetsGITit/spec/CreatePollController.spec.js

Rationale: A poll should end at a certain time or be permanently open.

Results: SUCCESS CreatePollController Method:
$scope.createPoll should not allow the user to create a poll without END DATE OPTION
The error message say: "Please provide an end date for your poll."

Any bugs?   None

5.3.5.   Test creating a poll with a valid end date and "open forever" checkbox checked

Description: Give a valid title and provide at least two options. Set any date for the end date and check the "Open Forever" checkbox checked. Check if our error message matches with the error message that the controller prints.

Location: LetsGITit/spec/CreatePollController.spec.js

Rationale: A poll should either have the end date set or be open forever but not both

Results: SUCCESS CreatePollController Method:
$scope.createPoll should not allow the user to provide End Date and click Open Forever
The error message say: "Please only choose one end date for your poll."

Any bugs?   None

5.4. Create Rating

5.4.1. Create a rating without logging in

Description: We want to create a rating without logging in and attempt to insert this rating into the database. We will achieve this by initially setting our username to null and our userID to -1, and storing these values in our cookies. Check if our error message matches with the error message that the controller prints.

Location: LetsGITit/spec/controllers/CreateRating.spec.js

Rationale: If the user is not logged in, then they are not a registered user so they should only be granted read-only access to KnowItAll.

Results: It works!

Any bugs? None

5.4.2. Add a rating with empty 'title' field

Description: When we try to add a rating with an empty title field, the rating shouldn't be added.
Test 1: Set the rating title input to null.
Test 2: Set the rating title input to an empty string.
Check if our error message matches with the error message that the controller prints.

Location: LetsGITit/spec/controllers/CreateRating.spec.js

Rationale: A rating shouldn't be created when there is no title input to create the rating from.

Results: It works!

Any bugs? None

5.4.3. Add a rating with empty 'description' field

Description: If 'description' field is not filled in, don't add a rating. Set a title input, but don't set any description input. Check if our error message matches with the error message that the controller prints.

Location: LetsGITit/spec/controllers/CreateRating.spec.js

Rationale: Description field must be filled in order to add a rating.

Results:	It works!
Any bugs?	None

5.4.4. Test creating a rating without an end date

Description:	Give a valid title and provide at least two options. Set the end date to null and leave the "Open Forever" checkbox unchecked. Check if our error message matches with the error message that the controller prints.
Location:	LetsGITit/spec/CreateRatingController.spec.js
Rationale:	A rating should end at a certain time or be permanently open.
Results:	SUCCESS CreateRatingController Method: $scope.createRating should not allow the user to create a rating without END DATE OPTION The error message say: "Please provide an end date for your rating."
Any bugs?	None

5.4.5. Test creating a rating with a valid end date and "open forever" checkbox checked

Description:	Give a valid title and provide at least two options. Set any date for the end date and check the "Open Forever" checkbox checked. Check if our error message matches with the error message that the controller prints.
Location:	LetsGITit/spec/CreateRatingController.spec.js
Rationale:	A rating should either have the end date set or be open forever but not both
Results:	SUCCESS CreateRatingController Method: $scope.createRating should not allow the user to provide End Date and click Open Forever The error message say: "Please only choose one end date for your rating."
Any bugs?	None

5.5.   Poll/Rating Page

5.5.1.   Error messages display correctly when a visitor tries to comment

Description: Tried to insert comment (.createComment()) with undefined(visitor) userID.

Location: LetsGITit/spec/PollRatingController.spec.js

Rationale: A comment should not be created with undefined userID.

Results: SUCCESS /PollRatingController Method: $scope.createComment() should not allow the user to comment.

Any bugs? None

5.5.2.   Error messages display correctly when a visitor tries to vote.

Description: Tried to vote (.selectLikeOrDislike()) with undefined(visitor) userID.

Location: LetsGITit/spec/PollRatingController.spec.js

Rationale: A vote should not be created with undefined userID.

Results: SUCCESS /PollRatingController Method: $scope..selectLikeOrDislike() should not allow the user to vote.

Any bugs? There are two cases of undefined userID that are -1 and 'undefined'. We failed to handle the case for userID equals to 'undefined'

5.5.3.   Error messages display correctly when a visitor tries to rate.

Description: Tried to vote (.selectRate()) with undefined(visitor) userID.

Location: LetsGITit/spec/PollRatingController.spec.js

Rationale: A rate should not be created with undefined userID.

Results: SUCCESS /PollRatingController Method: $scope.selectRate() should not allow the user to rate.

Any bugs? There are two cases of undefined userID that are -1 and 'undefined'. We failed to handle the case for userID equals to 'undefined'