

## **Statfinder Test Plan**

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Numeric Classification	Severity Scale
1	Critical
2	Important
3	Workaround

Each test consists of parts:

- A. Identification, description and Classification
- B. Instructions
- C. Expected Result

**The following list is a combination of backlog user stories and guidelines set in the instructions**

1. As a user, I would like to sign in using Facebook.
  - a. LOGIN01, Basic login Mitch, 1
  - b. Using Mitch's valid Facebook credentials a user clicks log in
  - c. The main activity should be displayed after the facebook API call returns success
- a. LOGIN02, Basic login Tim, 1
  - b. Using Tim's valid Facebook credentials a user clicks log in
  - c. The main activity should be displayed after the facebook API call returns success
- a. LOGIN03, Attempt to login with an incorrect password, 1
  - b. Using invalid Facebook password (with valid username) a user clicks log in
  - c. An error should displayed after the facebook API call returns failure
- a. LOGIN04, Attempt to login with an incorrect username, 1
  - b. Using invalid Facebook username(with valid password) a user clicks log in
  - c. An error should displayed after the facebook API call returns failure
- a. LOGIN05, Login attempt with a too long username, 2
  - b. Enter an 51 character long username and password
  - c. The username field should ignore all inputs once there are 50 characters in the username field
- a. LOGIN06, Attempt to login with an incorrect username, 1
  - b. Using invalid Facebook username (with valid password) a user clicks log in
  - c. An error should displayed after the facebook API call returns failure

2. As a user, I would like to answer questions immediately whenever I open the app.
  - a. MAIN01, Basic login, 1
  - b. User logs in with Facebook
  - c. Main activity shows available questions on the screen
- a. MAIN02, Double click login, 2
- b. User double clicks the login button
- c. The second login action should be rejected, and the user should be logged in like normal
- a. MAIN03, Main Activity checking, 2
- b. User opens 'Most popular' question on the Main Activity
- c. Question preview matches the new open question, and has not been seen before
- a. MAIN04, Main Activity checking, 2
- b. User opens 'Random' question on the Main Activity
- c. Question preview matches the new open question, and has not been seen before
- a. MAIN05, Searching, 3
- b. User presses Magnifying glass in main activity, and types a query to match a known question
- c. User should find the desired question and be able to open it correctly.
- a. MAIN06, Open Navigation Menu, 1
- b. User presses the menu button at the top of the screen
- c. The Navigation Menu opens
- a. ANSWER01, Open question, 1
- b. Press a question anywhere in the app
- c. The corresponding question should appear in a new window
- a. RESULTS01, View question results, 1
- b. Open history from navigation menu, pick a question
- c. Results page should have a 'next' button and a 'home' button
- a. RESULTS02, Return from question results, 1
- b. Open history item, attempt to press the home button
- c. User should be returned to the main activity
- a. RESULTS03, View interactive graph, 2
- b. Open history item, attempt to interact with displayed graph

- c. User should be able to interact with the returned graph in some way (assuming a graph is returned)
- a. RESULTS04, View global history of question, 2
  - b. Open history item made by a moderator, look at worldwide results
  - c. User should be able to see the results of a poll based on both local results, and worldwide results, separately
- a. HISTORY01, View each category of history, 3
  - b. Open history, and filter to see all 'skipped' items
  - c. User should be able to see skipped items in the 'skipped' section of history, and use the UI
- a. HISTORY02, View each category of history, 3
  - b. Open history, and filter to see all 'answered' items
  - c. User should be able to see skipped items in the 'answered' section of history, and use the UI correctly
- a. HISTORY03, View each category of history
  - b. Open history, and filter to see all 'created' questions
  - c. User should be able to see skipped items in the 'created' section of history, and use the UI correctly
- a. HISTORY04, History Sorting, 3
  - b. Check history and take note of order of answered questions
  - c. History displayed should be in chronological order
- 3. As a user, I would like to avoid seeing the same questions that I have already answered.
  - a. REPEAT01: Repeating question in a category test, 3
  - b. The user answers all questions in a category, making a note of each and then checking the history against the list.
  - c. We should not see the same question twice
- a. REPEAT02: Repeating with skipped questions test, 3
  - b. The user answers most questions in a category, skipping 5 and making a note of each. The user then goes to the skipped questions section and answers the 5 skipped questions. The user then checks the history against the list.
  - c. We should not see the same question twice
- a. REPEAT03: Using the home button, 3
  - b. The user should press the home button, instead of skip or next during a question
  - c. The question should still be visible to be completed by the user at a later time

- a. REPEAT04: Reporting a question, 2
  - b. Flag a question
  - c. The question should not be seen again, as if it were answered
  
- 4. As a user, I would like to primarily see the questions that have the most popularity based on how many people have seen and answered them.
  - a. POPULARITY01, Popularity test, 2
  - b. The user enters a category and answers all the popular questions
  - c. The popular questions displayed should always have a higher rank than the random ones  
  - a. POPULARITY02, Popularity test, 2
  - b. The user enters a category and answers all the random questions
  - c. The popular questions displayed should always have a higher rank than the random ones  
  - a. POPULARITY03, Popularity test, 2
  - b. The user enters a category and answers alternating between choosing popular and random the questions
  - c. The popular questions displayed should always have a higher rank than the random ones  
  - a. POPULARITY04, Popularity test, 2
  - b. The user selects a category and choose popular questions multiple times
  - c. The popular questions displayed should always have a higher rank than the random ones  
  - a. POPULARITY05, Popularity test, 2
  - b. With two questions with same number of views and answers, let a new user vote on one of them
  - c. The question that gets voted should appear on top of another
  
- 5. As a user, I would like to see the answers of other people around me based on my location presented in the form of a chart or graph.
  - a. VOTING01, Voting results, 1
  - b. Multiple users in the same area vote on the same question with at least one unique answer
  - c. The total results of the vote are displayed, we should see the geolocation and correct percentage of unique answers  
  - a. VOTING02, Double click answer, 2
  - b. One user clicks the same answer multiple times before the results screen is loaded

- c. The answer should be recorded one time
  - a. VOTING03, Click on 2 answers, 2
  - b. Let a user click on 2 answers for a question simultaneously (and release both taps at the same time)
  - c. Only the first answer that is clicked should be recorded while the second one should be rejected
  - a. VOTING04, Voting results for question, 2
  - b. One user answers "Who is the fairest of them all?"
  - c. The total results of the vote for this questions are displayed, we should see the geolocation and correct percentage of unique answers
- 6. As a user, I would also like to see the results of other cities and states as well as the entire country.
  - a. POLLING01, Voting over large area, 2
  - b. Multiple users from a wide variety of areas vote on the same question
  - c. The total results can be separated out based on city, state, and country and displayed. The responses of a user from a geographically different location should be filtered out
  - a. POLLING02, Result UI update, 2
  - b. With the first user viewing the result of a question, the second user would vote on that question
  - c. The UI (of the result) on the first user's phone should be updated immediately as it has changed
  - a. POLLING03, Result UI update for question, 2
  - b. With the first user viewing the result of "Who is the fairest one of all?", the second user would vote on that question
  - c. The UI (of the result) on the first user's phone should be updated immediately as it has changed
  - d. POLLING04, Question with just 1 result, 2
  - e. Click on a question that has no result yet, and vote on it
  - f. When the user views the result for his own city, state, or entire country, there should only be one result.
- 7. As a user, I would like to select question topics based on categories such as sports and science.
  - a. SELECT01, Choose topics, 1
  - b. Choose the sports category by clicking on it
  - c. All questions under the sports category should pop up

- a. SELECT02, Choose topics, 1
- b. Choose the history category by clicking on it
- c. All questions under the history category should pop up
  
- a. SELECT03, Choose topics stress testing, 1
- b. Choose all categories in a very short period of time
- c. All questions should still appear when their category is clicked
  
- 8. As a user, I would like to create questions that are capable of having either two answer choices or more. (according to the instructions 5 + 1 other answers)
  - a. CREATE01, Create a question with 2+ answers, 1
  - b. Add a question, list multiple possible answers (2 or more)
  - c. The question should be created as expected
  
  - a. CREATE02, Create a question with 1 answer, 2
  - b. Add a question with 1 answer option
  - c. The question should not be created, an error should be returned
  
  - a. CREATE03, Create a question with max length, 1
  - b. Add a question with exactly 80 characters
  - c. The question should be created as expected
  
  - a. CREATE04, Create a question over max length, 1
  - b. Add a question with exactly 81 characters
  - c. The question should not be created and an error returned
  
  - a. CREATE05, Create a question under max length, 2
  - b. Add a question with exactly 79 characters
  - c. The question should be created as expected
  
  - a. CREATE06, Create a question with max answers, 1
  - b. Add a question with exactly 5 answers
  - c. The question should be created as expected
  
  - a. CREATE07, Create a question with max answers and other , 1
  - b. Add a question with exactly 5 answers and other
  - c. The question should be created as expected
  
  - a. CREATE08, Create a question with less than max answers and other , 2
  - b. Add a question with less than 5 answers and other

- c. The question should be created as expected
- a. CREATE09, Create a question with a blank title , 2
  - b. Add a question with a blank title
  - c. The question should not be created, an error should be returned
- a. CREATE10, Create question without category, 2
  - b. Attempt to skip adding a category to the created question
  - c. User should be unable to continue without picking a category for the question
- a. CREATE11, Create a question with double click, 2
  - b. Enter all info necessary to create a question, and then quickly tap on the create button twice
  - c. The question should be created only once as it's the expected behavior
- d. CREATE12, Create a question with 0 answer, 2
  - e. Add a question with 0 answer option
  - f. The question should not be created, an error should be returned
- 9. As a user, I would like to be able to create and submit my own questions that can be seen and judged by other users. (With character limit of 50)
  - a. SUBMIT01, Create question "This is a test", 1
    - b. Create a question with title "This is a test" and visibility true
    - c. "This is a test" question should be visible to all users
  - a. SUBMIT02, Create questions "Also a test", 1
    - b. Create a question with title "Also a test" and visibility true
    - c. "Also a test" question should be visible to all users
  - a. SUBMIT03, Answer questions, 2
    - b. Create a new question, set it to visible and respond to it with exactly 50 characters
    - c. Result should be visible to creator and stored in the user's history
  - a. SUBMIT04, Answer question using above maximum limit, 2
    - b. Create a new question, set it to visible and respond to it with exactly 51 characters
    - c. Response should not be recorded and an error should be returned
  - a. SUBMIT05, Answer question using below maximum limit, 2
    - b. Create a new question, set it to visible and respond to it with exactly 49 characters
    - c. Result should be visible to creator
  - a. SUBMIT06, Answer questions while offline, 2
    - b. Create a new question, set it to visible, and respond to it with the internet offline



- c. Instead of crashing, the app should display an error message
10. As a user, I would like to be able to choose between user created and moderator created questions. **(We cannot actually test this as it seems there are no moderator privileges we have access to)**
- a. FILTER01, Filter questions moderator only, 2
  - b. The user navigates to the filters and selects the moderator submitted filter for questions
  - c. Only moderator submitted questions should show up in the search
- a. FILTER02, Filter questions user user only, 2
  - b. The user navigates to the filters and selects the user submitted filter for questions
  - c. Only user submitted questions should show up in the search
- a. FILTER03, Stress test, 3
  - b. The user rapidly selects moderator submitted then, user submitted
  - c. As the user submitted was the last entered, only user submitted questions should show up in search
11. As a user, I would like to go through a list of all the questions I've answered before and reexamine results.
- a. REEXAMINE01, Filter responded questions, 3
  - b. Answer questions and select the option to review questions I've answered
  - c. Answered questions should appear

Further test cases are covered by previous history tests, and further tests should not be required

12. As a user, I would like to have a settings page where I can logout, and control what type of questions I see.
- a. SETTINGS01, Open settings, 1
  - b. Press the overflow menu in the main activity and press the settings button
  - c. The settings menu should appear
- a. SETTINGS02, Close settings, 2
  - b. Press the overflow menu in the main activity and press the settings button twice
  - c. The settings menu should close after being pressed twice
- a. SETTINGS03, log out, 2
  - b. Attempt to log out in the settings menu
  - c. User should be logged out of the app and close the settings menu

- a. SETTINGS04, Filter Questions from settings, 3
    - b. Choose an option in the settings that enables question type filtering
    - c. User should no longer see the filtered type of question and close the settings menu
  - a. SETTINGS05, Double tap filters, 3
    - b. Choose an option twice for filtering rapidly
    - c. The displayed filter should still be accurate to what the app displays
  - a. SETTINGS06, Unfilter questions from settings, 3
    - b. Choose a currently filtered option in the settings
    - c. User should now (again) see the filtered questions and close the settings menu
13. As a programmer, I would like to allow users to flag user made questions to decide whether or not they are removed.
- a. FLAG01, Report question, 1
    - b. Attempt to report a question
    - c. An acknowledgement of report should occur, report should be logged
  - a. FLAG02, Report question, 1
    - b. Have 6 users report a question
    - c. This should likely be enough to have the question be removed. The question should no longer be visible to the 7th tester.
  - a. FLAG03, Report question stress, 2
    - b. Attempt to report a question twice really quickly
    - c. The acknowledgement should only appear once, report should be logged
14. As a programmer, I would like to implement a simple UI that will easily allow users to answer questions quickly.
- a. SIMPLEUI01, Basic UI, 2
    - b. Tap on a random question
    - c. It should be a simple screen with a list of options. The user should be able to answer simply by tapping one of them. Also, there should be two buttons at the bottom which will allow them go back or go to the next question.
  - a. SIMPLE02, UI Stress, 3
    - b. Rapidly double tap a question
    - c. Make sure that the app doesn't open the question activity twice
  - a. SIMPLEUI03, Advanced UI, 3
    - b. Tap on a question that has a long question title and many options
    - c. It should be a simple screen. But since there is a long question title and many options, the view frame can be shorter than the content frame. In that case, the

user should be able to scroll up to reveal the hidden content (whatever that wasn't able to fit on the screen).

- a. SIMPLEUI04, Home button interaction, 3
  - b. Launch the app and navigate to a question category, press the home button, then return to the category
  - c. Upon pressing the home button the user should return to the main activity. Once the user returns to the category the question should be the same as before.
15. As a programmer, I would like to keep a database to store the user's information regarding question.
- a. DATABASE01, Database Sync, 2
  - b. On one phone, login with your Facebook account and answer a question.
  - c. On another phone, login with the same Facebook account. Then, go to question skipped history and see if skipped questions (appears in the history activity).
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- a. DATABASE02, Database Sync, 2
  - b. On one phone, login with your Facebook account and answer a question.
  - c. On another phone, login with the same Facebook account. Then, go to question answered history and see if the previous answer that is answered on the first phone is recorded (appears in the history activity).
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- a. DATABASE03, Database Sync, 2
  - b. On one phone, answer the most popular question, then log into another device
  - c. Make sure the answered popular question is not visible

**This testing partially covered by other parts of the test plan, as it has significant overlap**

16. As a programmer, I would like to provide an optimal search for the user to filter and search questions by topic or key phrases.
- a. SEARCH01, Search with a valid keyword, 2
  - b. Tap on the search icon in the action bar. Enter a valid keyword, such as "What". Press search.
  - c. Check and make sure all the topics that appear in the result list view contains that keyword.
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- a. SEARCH02, UI Stress, 3
  - b. Double tap the search button
  - c. Make sure that the app doesn't search twice
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- a. SEARCH03, Search with space, 3
  - b. Tap on the search icon in the action bar. Tap on the text field and just press search without entering any keyword.

- c. The result list view should contain all the topics since the user does not have any filter.
- a. SEARCH04, Search with unicode character, 3
  - b. Tap on the search icon in the action bar. Enter a unicode character, such as “★”. Press search.
  - c. The app should not crash. Then, check and make sure all the topics that appear in the result list view contains that unicode character.
- a. GENQUALITY01: Working buttons, 2
  - b. All buttons in the application a pressed and all options navigation menus are selected
  - c. All buttons and navigation options should work as intended
- a. GENQUALITY02: UI usability, 3
  - b. All views of the application are opened
  - c. All views should be following the Android design principles  
(<http://developer.android.com/design/get-started/principles.html>)
- a. GENQUALITY03: Settings usability, 3
  - b. Attempt to use any settings options given (besides those documented or previously tested, such as filtering)
  - c. Each should have an immediate effect, depending on what they seem to do
- a. MINAPILEVEL01, Test running the app with API 16, 1
  - b. Using an emulator or android device with 4.1 Jelly Bean, launch the app and use all navigation items
  - c. The app should function as intended