

QA Engineer Case Study - Quantilope, 2021

TIME LOG

- Date: 9-6-2021
 - Start: 20:49, Break: 21:23, Return 22:04, Stop 1:13
- Date: 10-6-2021
 - Start: 12:11, Stop 1:02
- Does not include time to set up a repository.

APPROACH

1. Identify priority
 - a. Rearranged stories according to test flow
2. Define cases relevant for each story
 - a. Export cases into manual regression checklist
3. Convert tests cases into global assertions and functionality tests
 - a. Define relevant scenario(s)
4. Write tests. Manual and Automation
5. Complete other tasks and commit.

USER STORIES

- Stories provided in test document

#3: "As a survey analyst, I am not interested in the answers of people who prefer red, so they should be removed from the answer pool." - Priority Serious

Automation

Test cases

1. Assert red answer surveys are not logged in nowhere ever
2. Assert not-red is logged in relevant graphs

#4: "As a survey analyst, I want to see the weight of screened out participants, so any answers of a screened out participant should be reflected as Not Applicable." - Priority Serious

Automation

Everything above and:

1. Assert screened out tests are recorded as Not Applicable
2. Assert tests above are recorded in graphs

#1: "As a survey analyst, I want to see responses as soon as they have been entered into the survey, as soon as a single question is answered the answers should be reflected in the graphs" - Priority Optional

Automation

Everything above and:

1. Asset changes between app areas
 - a. Assert each question answered with valid values reflect on graphs
 - i. In all relevant areas

#2: "As a survey analyst, I have order the questions in order of importance, so any partially completed surveys should also have the answers updated in the final graphs" - Priority Critical

Automation

Everything above and:

3. Assert on click next for each answered question, answers are saved to dashboard
 - a. Assert changes recorded on save at questions levels 1, and 2
4. Complete new survey questions 1, 2 & 3 and assert changes still saved

#5: "As a survey analyst, I want survey responses to be collected in a single graph per question, so I can have visual representation of all the responses" - Priority Critical

Automation

Everything above and:

1. Function answer question with unique value
2. Assert dashboard changes to new question answers
 - a. Assert no negative changes to other answers.
3. Repeat steps 2,3 for other question areas
 - a. Assert changes to other graph areas and main graph area

SCENARIOS

GENERAL PAGE ASSERTION: Rescoped to in-test assertions

1. Survey
 - a. Pages Elements and layout
2. Dashboard
 - a. Page Elements and layout

AUTOMATED FUNCTIONALITY TESTS

1. Survey status (Incomplete/complete) and live test results. Story 1 and 2
 - a. Assert default state for dashboard and survey
 - b. Start a survey and answer a question
 - c. Assert no changes on selecting an option
 - d. Click next and visit dashboard to assert updates
 - i. Step through one question
 - ii. Step through all 3 questions.

2. Response sorting, 3, 4 and 5
 - a. Assert default state for dashboard and survey
 - b. Start a survey and answer red for question 1 and diff for other questions
 - i. Assert answer is marked NA
 - ii. Assert changes are not recorded
 - c. Start survey and answer for question 1 as not red
 - i. Assert answer is marked on the relevant graph.
 1. Negative assertion
 - d. Repeat C Step through all other options on question 1
 - i. Assert answer is marked on the relevant graph.
 1. Assert negative changes to other graphs

MANUAL TEST CASES

Test cases can be done on Sheet or any test plan tool

QA	App area	Cases	Result	Comments	Date
Basic assertions					
Chris	Survey Welcome page	I can see the survey welcome page with one Get started button and welcome text			
Chris		When I click the Get started button: I can see a form with a question: What is your favorite color?			
Chris		I can see form has three radio input fields unchecked			
Chris		I can see form has one active button with text next			
...

1. Visual representation of all responses.
 - a. Start survey, answer questions 1 as Blue or Yellow

- i. and 2, 3 with first available values
 - b. Assert dashboard graph represent selected answers
 - c. Repeat step Ai with alternate values
 - d. Assert step b
2. Assert answers with Red are not logged
 - a. Start survey and answer question 1 as Red
 - b. Complete survey and assert dashboard does not reflect survey answers
 3. Assert screen out test are logged: Sub Test 2
 - a. Start survey and iterate through questions 1 options
 - b. On each case, complete test and assert dashboard changes
 - c. Assert min 1 case screens-out on iteration
 - i. Assert changes to dashboard graphs for above case
 - d. Not sure where to assert Not Applicable on the graphs
 4. Complete survey questions 1 and 2 with Yellow and 22 respectively
 - a. Close the test and visit dashboard
 - b. Assert graphs and total reflect new answers
 - c. Repeat step 4 for questions 1, 2 and 3 with Blue, 22 and 3rd option respectively
 - d. Assert graphs and total reflect new answers

BUGS & RESULTS

1. Incomplete tests are not saved
2. Response for RED on question 1 is reflected in dashboard
3. Tests result
 - a. **Test 1 fail:** Incomplete surveys are not saved in answer pool
 - b. **Test 2 pass:** Complete Yellow and Blue answer surveys are saved in answer pool
 - c. **Test 3 fail:** Red answers are logged in answer pool