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CS 417

Lab5

Test Plan

1. **Purpose:** The purpose for this test plan is to give you an idea regarding what tests needs to be done in order to check if there are any bugs. Also try to find as many bugs as possible so that we can have a clean software before giving to the client.
2. **Target Audience and Application:** Software team, testing team, manager, stakeholders or the clients, Professor, TAs. This will give some good ideas to the senior managers who are responsible for making the time frames for both clients as well as developers.
3. **Deliverables:** I would think the main deliverables for this test plan would be: Defect Report because it will give you an idea about what are the defects.

Test Cases: Gives a description of the test cases. These deliverables would be very helpful for senior managers while reviewing the updates.

1. **Information Included:**

**Introduction:**

**Test Item:**

There are three behaviors: Uploading, Clear before and after, different input

values and Query.

For each of them we can have preconditions; for uploading the precondition

would be none because there isn’t anything that needs to be done.

For Clear the precondition would be there is no previous state.

Have some tests that will have a get request.

For Query the precondition would be Update. The process will have to

follow a certain seq. Update goes to query and then query gives a token if

you want to update again you can use the previous token.

**Features Tested:** The user inputs for the blanks specified.

**Features not tested:** The UI

**Test Criteria, Strategy and Approach:** Invalid inputs, caching check,

POST instead of GET request and

vice versa.

**Pass/Fail Standards:** Make a test that will check for every input that the

user can enter. Make tests that will be able to pass or

fail the code that can help you detect the bugs.

**Criteria for Beginning Testing:** Needs to make sure that the we are testing

for each and every criterion that is

provided to find the bugs.

**Test Deliverables:** Defect report, Test sets.

**Responsibilities for determining problems:** Adding test that covers wide

varieties of tests that can be

helpful.

**Group 1.**

1. /lab5host/command/update.jsp
2. Everything works correctly.
3. Get request instead of post request.
4. Three test cases for 422 with null.
   1. name with null.
   2. species with null.
   3. planet with null.
5. Three test cases for 422 with white spaces.
   1. name with space.
   2. species with space.
   3. planet with space.

**Group 2.**

1. First, we need to send a request to post update and then send a get request to check if we get the previous values to be the same as the ones that we sent to update.
   1. That means, it needs to be in specific order.
2. Also need to check if the current value us empty for all three values.

**Group 3.**

/lab5host/query?planet=xxx

1. Send a request to /lab5host/query?planet=xxx with the current value and see if we get token in the response header
2. Send a request to /lab5host/query?planet=TestThisEndPoint and the response would be status code 200
3. Send a request to /lab5host/query?planet=xxx and assign a value that is not in the current planet so for example: if the planet == Saturn then assign planet == Jupiter and should return 404.

**Group 4.**

Needs to be specific order:

1. Send a request to /lab5host/query?planet=xxx and get the value of token.
2. Use that token to send a get request to /lab5host/resultset?token=kkkk and see the values in html page.
3. Send a get request to with an invalid token.