

**Software Quality Assurance**

**20CSSE04H**

**Test plan**

**Group members:**

|  |  |  |
| --- | --- | --- |
| ID | Name | Test cases |
| 153095 | Mostafa Negm | Buy now, saved jobs, create alert, apply job |
| 162417 | Maryam Ashraf | Add new profile, advanced search, search |
| 159534 | Ahmed | none |

**Monster website test plan:**

**TEST PLAN IDENTIFIER** **MON-STER1.0**

**INTRODUCTION**

The product under the test is Monster website for jobs, Monster is global online employment solution for both people seeking jobs and companies looking for employees. Monster been in the market for nearly 20 years, they expanded to become a full array of job seeking, career management, recruitment and talent management products and services.

We are working on the main test plan on the Monster website to grantee that all the website functionalities work as they should. And to see if the website is able to recover from the user’s misuse or bug exploiting. And ensure that monster can handle a big number of users at the same time.

1. Timing Testing
2. Stress Testing
3. Recovery Testing

The testing phase will have 6 levels of testing which cover most of necessary aspects which are:

1. Unit testing
2. Integration testing
3. System testing
4. Acceptance testing
5. Black box testing
6. White box testing

The estimated time to finish the testing phase of this product is 2 months. 1 month to develop the test plan and 1 month to execute the testing.

**SOFTWARE RISK ISSUES**

There is a lot of things can do problems in the monster website causing failure to the process and it’s out of the website control and it must be checked well.

1. Lack of experience: the website will be tested by team that may have no enough experience which leads to lack of using testing tools and techniques.
2. Limited resources: according to the budget of the test project some test tools may be expensive.
3. Natural disaster
4. Requirement change: the continuously change of the requirement has large effect on the testing.
5. Tight schedule: the time may be very small to cover all the test cases that the team is planning to test.
6. Loss of person in team: one of the important members in the team leaves causing great impact on the testing processes

**FEATURES TO BE TESTED**

1. Buy Now: users add specific item in cart so they can buy it
2. Search: users search for specific job by writing the skills, company, or job name
3. Advanced search: users search for job by writing detailed requirements
4. Update profile: user can update specific data in their profile
5. Create alert: users can create job alert that alert them when job similar to their specification is found
6. Saved jobs: user can add specific job to their saved jobs list
7. Payment: user add required payment data so they can proceed their checkout
8. Add new profile: user can add new profile to their profile list so be able to have multiple profiles
9. View job alert: users can be able to view their job alert in order to see their jobs requirement
10. Edit job alert: users can edit specific data in order to update their job alert
11. Activate profile: users can choose which profile between their multiple profiles they desire to be viewed among the website

**FEATURES NOT TO BE TESTED**

1. Updating database: can’t test if the data is updated in database or not
2. Check out: can’t test the checkout process
3. Information security: since the website doesn’t accept any payment method except visa and debit card
4. Marketing/forecasting process for paid profiles features: cannot test how efficient is the algorithms used for the website which does promote a client profile after paying for a marketing service.
5. Profile/preferences analysis function: cannot test how does the website algorithms recommend a profile jobs according to their profile, skill and preference.

**TEM PASS/FAIL CRITERIA**

1- The system should handle more 200,000 users at least without failing or crashing or it will be recorded as failure.

2- If any feature caused a website crash. It would be recorded as fail case.

3- In search feature, if the output is not as the expected it would be considered as failure.

5- Each test case should give the same correct output for at least 20 times, or it will be considered as failure.

6- During test cases unpredicted events and outputs are considered as failure.

**SUSPENSION CRITERIA**

**The testing will stop in these cases:**

1. Stakeholders decided to give up the product.
2. Stakeholders decided to stop testing or cut the testing phase to move with the product into the next phase.
3. If the giving time is short and deadline time passed. The test should stop and deliver all the reached results.
4. All the test cases passed successfully.
5. Project cost overdue the giving budget.

**TEST DELIVERABL**

1. Test plan
2. Test cases
3. Test Logs
4. Incident Reports
5. Incident Reports Logs
6. Test Summary Report

**SCHEDULE**

**As we only got 6 test phases and deadline after 2 months, we can equally divide the time between them to make each test phase takes at most 10 days.**

1. Unit testing: 5/1/2021 – 5/10/2021
2. Integration testing: 5/10/2021 – 5/20/2021
3. System testing: 5/20/2021 – 5/30/2021
4. Acceptance testing: 5/30/2021 – 6/9/2021
5. Black box testing: 6/9/2021 – 6/19/2021
6. White box testing: 6/19/2021 – 6/29/2021

**PLANNING RISKS AND CONTINGENCIES**

**Recovery process from the assumed risks:**

A. Lack of experience: by assigning a senior tester as a supervisor to guide the team during the testing process.

B. Limited resources: by using manual testing techniques. it will help to reduce budget of paid testing tools.

C. Natural disaster: all the test results should be uploaded daily on a cloud.

D. Requirement change: gathering the requirements precisely in a contract that both clients and developers agree on. And any changes within the contract will cause adding extra budget. Or that will cause to minimize the effort in regression testing later and prepare for risk analysis of changes.

E. Tight schedule: test functionalities where the number of users is going to hit the most or hire extra tester which will higher the budget.

F. Loss of person in team: meet as a team and discuss how the tasks can be divided up. Try to distribute work evenly and fairly between people. And making sure that the tasks not getting the rest of team overwhelmed. At the same time try to contact a jobs contractor to find you another employee or freelancer that could assist in work (these contractors can be found online).

**Summary Tools Report:**

**Selenium IDE:** the testing with this tool doesn’t give efficient result the way to be tested is not efficient

**WebDriver:** the testing with this tool is good and give efficient result

**JMeter:** simple interface and easy to useit’s not so efficient as it crash during the heavy loads but it can rely on in small threads group.

**Issues& difficulties:**

**Selenium IDE:** the most error was facing us is the TimeOut error it keeps occurring even when the internet was okay and the test cases steps didn’t have problem in them

**WebDriver:** making the test cases with it was easy but the test suite and the TestNG was very hard to be implemented the errors wasn’t clear and we couldn’t get the result of the test suite using the webdriver at all.

**\*we were facing problem in both WebDriver and Selenium IDE in getting the path of the items in the website, the error was always occurring that the tool couldn’t find the path of the item\***