Test Summary Report

Table of contents

1. Purpose

To execute manual,automation and performance test for ICTAK Alumni Job Portal website and validates whether the given requirements are fulfilled.To ensure that the working of the website is proper and identifies the bugs if present through manual and automation testing.Bugs must be reported.Do performance and load test using Jmeter for ensuring the functioning of website is proper and identifying how the increase in load affect the performance.

2. Application Overview

The ICTAK alumni job portal is a web based application that is helpful for users,alumni,employers as well as the ICTAK authorities.The main objective of a system is to design or develop a software portal for ICTAK to study the existing system searching for more job seekers(clients)is made easier,reduces manual work,To develop a suitable system for Job entries and searches,to reduce errors at the time of Job entries and search.

3. Testing Scope

- **In scope**

➔ Functional Testing for the following modules
  - ❖ Sign Up and Login functionality
  - ❖ Create Job Posting
  - ❖ View Job Posting and Response
  - ❖ Type of Response to a job posting
  - ❖ Job posting and cut-off date
  - ❖ Verify submissions and forward

➔ Integration Testing of the application with combining multiple functionalities

➔ The application's performance is tested to see if it can withstand heavy traffic and long load times.

➔ Testing of the applications usability , including user-friendly navigation and accessibility.

- **Out of scope**

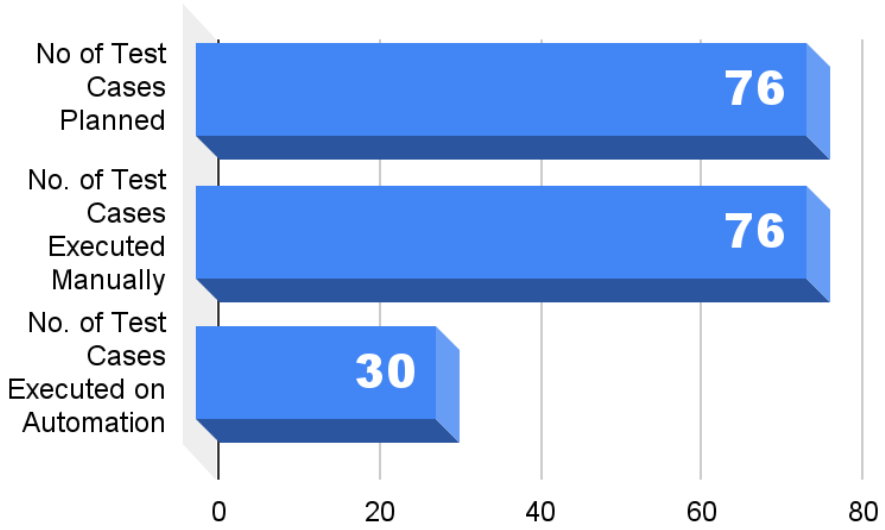
  These features are not to be tested since they are not entailed in software requirement specifications

  - ❖ Support language other than English.
  - ❖ Upload video resume.
  - ❖ API Testing
  - ❖ DB Testing
- **Items not tested**
  - ❖ Admin functionalities

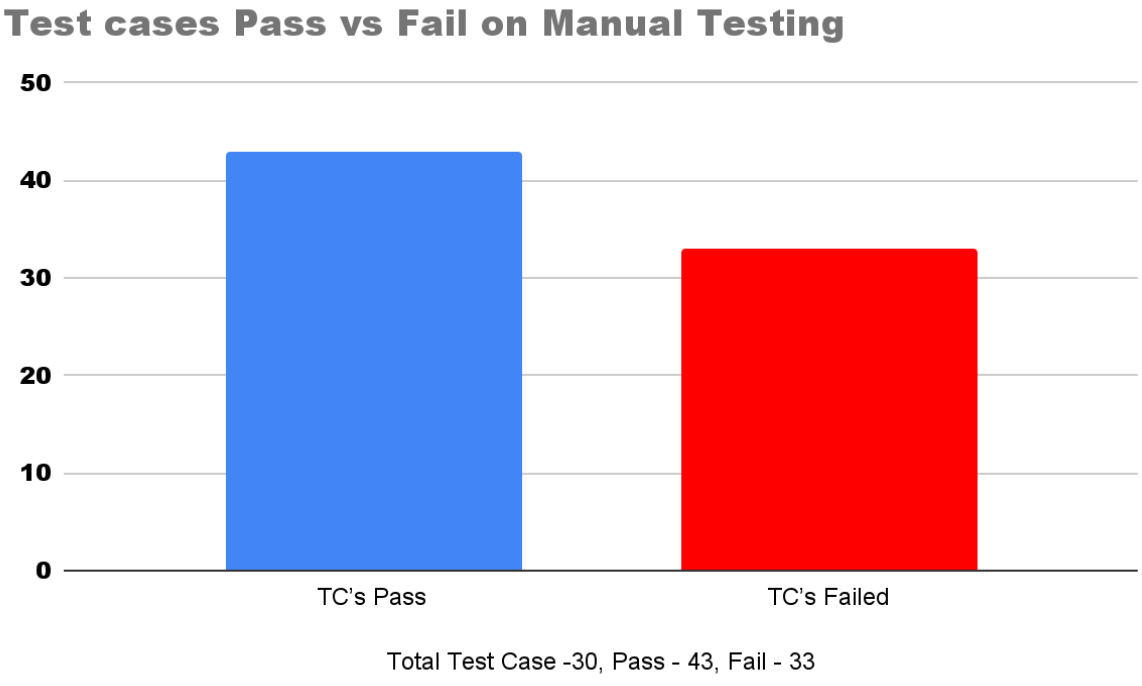
4. Metrics

i) No. of test cases planned vs executed

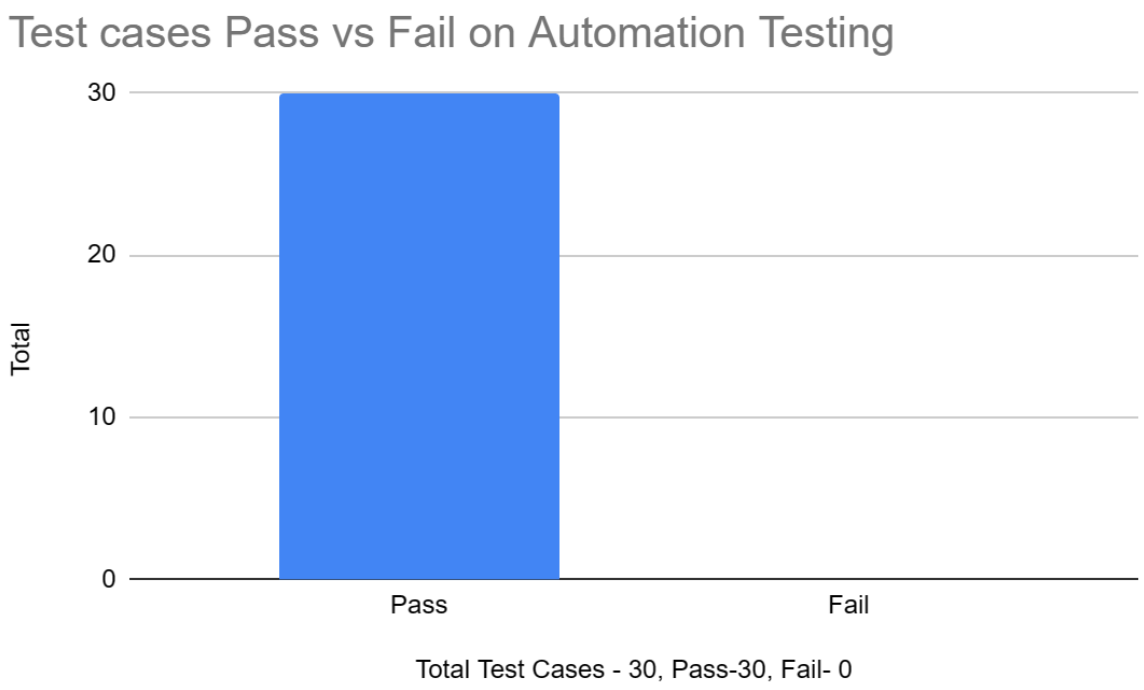
Module	Admin	Alumni	Employer	Faculty	Visitor	Total
Total Test Cases Planned	24	20	17	10	5	76
Test Cases Executed Manually	24	20	17	10	5	76
Pass	10	8	15	6	4	43
Fail	14	12	2	4	1	33
Test Cases Executed on Automation	0	10	10	7	3	30
Pass	0	10	10	7	3	30
Fail	0	0	0	0	0	0



ii) No. of test cases passed/failed on Manual Testing

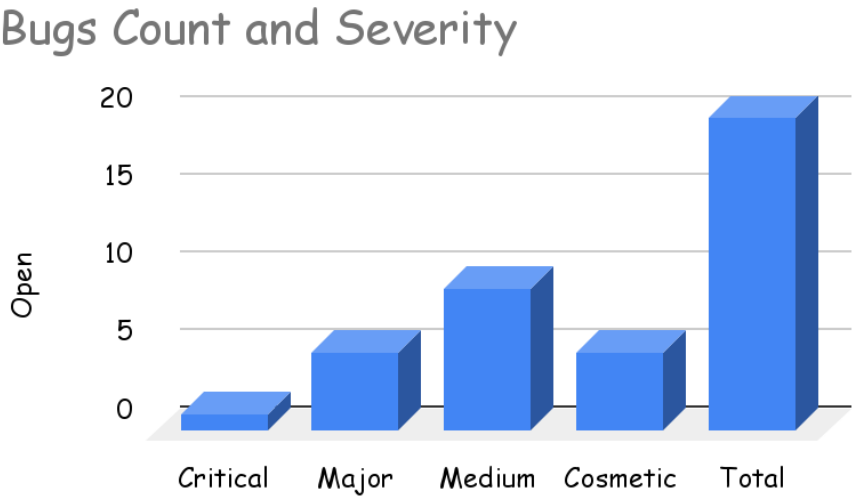


iii) No. of test cases passed/failed on Automation Testing



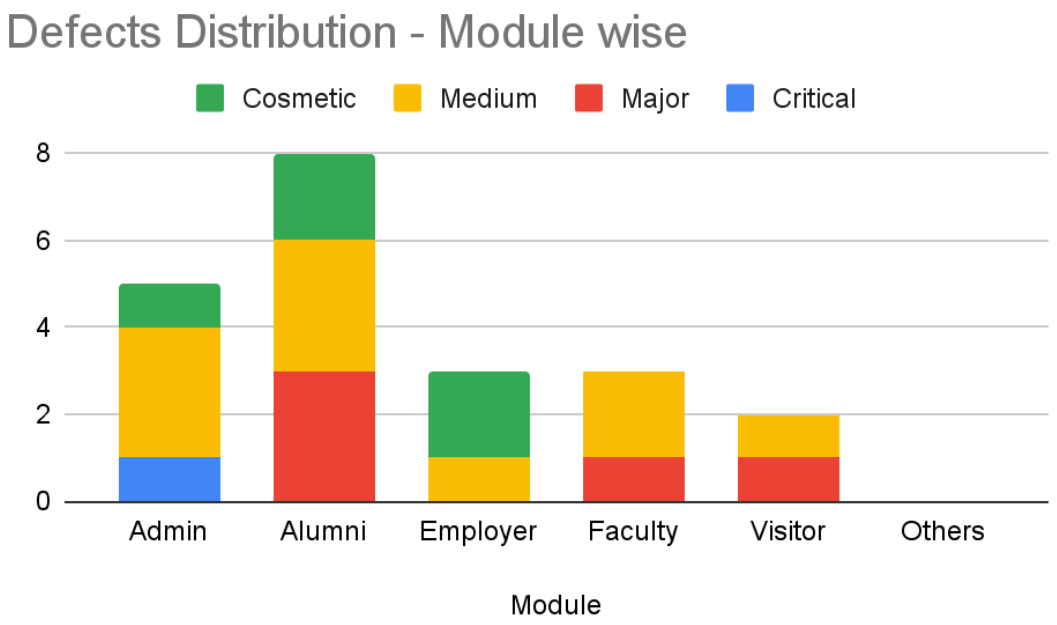
iv) No of defects identified and their Severity

Bug Status	Critical	Major	Medium	Cosmetic	Total
Count	1	5	9	5	20



v) Defects distribution – module wise

Bug Severity	Admin	Alumni	Employer	Faculty	Visitor	Others
Critical	1	0	0	0	0	0
Major	0	3	0	1	1	0
Medium	3	3	1	2	1	0
Cosmetic	1	2	2	0	0	0
Total	5	8	3	3	2	0



5. Types of testing performed

- **Unit Testing:** Testing involved analyzing each web application module.
- **Integration Testing:** Used to test the data flow from one module or component to other modules.
- **System Testing:** Used to test the software's functional and nonfunctional

requirements.

- **Acceptance Testing:** Used to evaluate whether the specifications and the requirements are met from the end user's perspective.
- **Performance Testing:** Evaluated how the system performed under a particular workload.

6. Test Environment & Tools

Sl No	Resources	Description
1	Testing & data management tools	
	● MS Excel/Word	Test Plan and Test case creation.
	● Eclipse IDE	Developing the scripts.
	● Selenium, TestNG, Maven, Apache POI	Test case execution and automation.
	● JMeter	Testing the performance and generating reports
2	Project Management tool	
	● JIRA	Planning, assigning, tracking, and reporting each task among the team members.
	● Google Drive, GitHub	Common repository to share our work.
3	Test Environment & Machine Configuration	
	● Hardware configuration	1 Gb Ram, 512 HDD/128GB SSD, and higher configurations.
	● Operating System	Windows 10 & above

	• Network	Internet with a speed of min 5 Mb/s.

7. Lessons Learnt

Issues faced	Solutions
• Difficult to merge various submodules of automation testing manually in eclipse	Used GitHub repository.
• Difficult to merge individual team members excel sheets in automation testing.	Created a single excel worksheet in a shared google drive folder to work for each team member.
• Difficulty to read different data types from excel file with a single excel utility method	Implemented a new data formatter method for reading all types of data from excel,and then converted to string values.

8. Recommendations

- Registered users should get notifications regarding new updations.
- Website user interface should improve to make it more user friendly .

- A common recommendation from usability is to use light colors and formal script fonts.
- The website should function bug free for more accurate functioning of different features,making it more reliable for the customers use.

9. Best Practices

- Works have been split with each team member and ensured the collaboration of each team member during the entire testing life cycle.
- Used automation testing to reduce manual testing efforts
- Test Scenarios are identified at the early stages of testing and created automation package and class names earlier to avoid conflicts when team members work on similar modules.
- Uploaded automation project to the git repository and worked collaboratively with the team
- Integration testing and system testing have been done as per the end user perspective to improve the application quality.

10. Exit Criteria

➢ All test cases have been executed and the results have been documented - **No**

➢ All high-priority defects have been addressed and resolved - **No**

➢ The product has been successfully tested in the target environment - **No**

➢ User acceptance criteria have been met - **No**

➢ Performance testing has been completed and meets the established performance goals - **No**

➢ All required documentation and test artifacts have been produced and reviewed - **Yes**

➢ No major risks or issues have been identified that would prevent the product

from being released - **No**

- ➢ A final test report has been produced and approved - **NA**

11. Conclusion

In Accordance with the result of manual and automation test identified that the working of the website doesn't met the software requirements specifications.Certain modules are not functioning properly,some fields are not present,verification of data for certain necessary pages are missing.While executing load test as the number of users increases the rate of fall increases.Since the most of the exit criteria wasn't met and satisfied this application cannot be put into effect .