

Internal Automation Tool

Haritha Choudhary *, Manas M N **

*(Computer Science Engineering, R V College of Engineering, Karnataka, India
harithachoudhary01@gmail.com)

** (Computer Science Engineering, R V College of Engineering, Karnataka, India
manasmn@rvce.edu.in)

Abstract:

In this modern era, several methods have been implemented for automation. Implementation of internal automation tools is a method to build the tools for software automation. This method uses appsmith, an software. Also there are many applications that can be implemented by using this method.

Keywords — **Automation, appsmith, tools, frameworks, test automation.**

I. INTRODUCTION

An automation is the tool that helps teams, organizations automate their software testing needs, using less of manual work done by humans and achieving greater speed, reliability, and efficiency. There's more to it than that, though. Nowadays all development softwares always depends on automation, in any situation, that can be going through source code to rectifying the mistakes in test cases, formation and process of implementation. These are the places where an automation tool becomes relevant.

This tool is an automation software that will itself help in focusing the actual testing and help in testing the software. Nowadays the fast and unparalleled change in technology affects how organizations develop, validate, deliver, and operating the products of the softwares. We need to meet the quality of software, standard requires testing the software, and the attainment of the project testing is largely determined by testing technique and automation tools used. The testing softwares have their own pros and cons which are required for each purpose. We should always analyse the tools before selection of tool for our

requirement. The cost, type of application requirements and skills are needed to be present in the tool. These procedures need a lot of planning, therefore to create a testing project, more time and effort is needed. Now it follows with an explanation of some of the most commonly used automation tools along with their advantages and disadvantages.

II. RELATED WORK

There are many approaches that are defined and also implemented for automation. We have studied some of the analysis, and these are mentioned in the following survey. In [1], a comprehensive study of test tools and frameworks. Firstly, automated testing and their categories were explained, which is followed by describing the different automation test frameworks. In [2], Open Source test automation tools are developing in standard of industry and has become a competitive necessity in the IT Industry. In [3], it assesses and compares twenty-one available automation-testing tools on twenty attributes in a comprehensive manner. In [4], different automation tools for testing web. that may assist us in understanding the testing as well as the automation tools required for testing. Many types of systems based on web and software are

tested by automation tools. The script used in testing is in automation. In [5], The automation has its own pre requisites, the possess of working , an approximate way to use testing in automation and the advantages of this than manual work. The Selenium tool is used for automation In [6], in this the frameworks used in test processes are based on UML and TFD models. By using these framework in some of applications in industry environments which promise of quality in products and automation systems improvement. In [7], We develop automated systems so that we can save time and good materials that gives good ROI. The metric suite is built that helps in comparing and selecting the required tool for testing. In [8]. The basic and stronger differences between manual testing done by human involvement and automation systems with the help of daily basis experiences. In [9] a niche frameworks for automated testings or web applications. The frameworks used can reduce 75% of time as well as effort required for automation using the traditional methods which is compared to 21% of used Selenium IDE.

With the help of the survey of these papers, the idea towards the concept comes into picture and this helps to choose the better model. And this survey provides an overall concept of their implementation ideas and what are our challenges towards the project and what are the necessary technologies that need to be used and in turn, provides an overall concept of our application.

III. PROPOSED SYSTEM

Here ,in this section, are several steps to build and test the tool. The complete technique has been divided into different steps and the same are discussed here.

A. Input to the tool

The initial steps that need to be taken is the purpose of this tool in application. Then input is given to

the system using the dataset. The output of this module will be a tool in the application.

B. Modules used in tool

In this phase our aim is to build the tool using these methods or modules. New user rule is two types of users that is new user and existing user. In this we define how many tasks a user should complete to become an existing user, less than that no of tasks it is a new user. Base price resolution rule is defined for which category (Default, Food, Grocery, Medicine, Merchant PND, PND, Paan, Pillion, Others), for which user type as defined in new user rule, how much should be the cost per km. Surge pricing rule is for a given time period what should be the surge value applied for different types of users

C. Development Methods

After creating main tools first to create a tool for staging the environment once it is working properly, to create a tool for production environment, Second to create a tool for making geo serviceable and Third to create a tool for creating/deactivating cohorts. Then we will be working on the following rules in each of them, New user rule that is if a user has completed $\leq X$ tasks, then he/she is a new user. Base price resolution rule i.e we define for which category, for which user type as defined in new user rule, and how much should be the cost per km. Surge pricing rule i.e for a given time period what should be the surge value applied for different types of users. Using APIs we have built these tools in Appsmith.

IV. RESULTS AND DISCUSSION

For the Experimental Results, we used the dataset consisting of details used for automation tools. So we had used this dataset for all tools that had been developed. These methods have successfully worked to make the automation tool.

V. CONCLUSION

In this project, we have developed a few tools for internal automation. The final result that we have provided is a tool. We have made sure that the approach will give best results in Realtime and provide a research base to other researchers to carry further work in this field. There can be further improvement that can be done in the building of tools phase by improving the dataset and implementing the system for more interactions.

VI. REFERENCES

- [1] Mubarak Albarka Umar , Chen Zhanfang, “A Study of Automated Software Testing: Automation Tools and Frameworks”(2019).
- [2] K. Saravanan & E. Poorna Chandra Prasad “Open Source Software Test Automation Tools: A Competitive Necessity”(2016).
- [3] Dilara Ateşoğulları, Alok Mishra, “AUTOMATION TESTING TOOLS: A COMPARATIVE VIEW”(2020).
- [4] Monika Sharma, Rigzin Angmo , “Web based Automation Testing and Tools”(2014).
- [5] Prasad Mahajan , Harshal Shedge, Uday Patkar, “Automation Testing In Software Organization”(2016).
- [6] Dietmar Winkler, Reinhard Hametner, Thomas Östreicher, Stefan Biffl, “A Framework for Automated Testing of Automation Systems”(2010).
- [7] Tarik Sheth , Dr. Santosh Kumar Singh, “Software Test Automation- Approach on evaluating test automation tools”.
- [8] Nazia Islam,A Comparative Study of Automated Software Testing Tools.
- [9] Milad Hanna , Amal Elsayed Aboutabl , Mostafa-Sami M. Mostafa, “Automated Software Testing Framework for Web Applications”
- [10] Neha Bhateja, “A Study on Various Software Automation Testing Tools”