SHORT-TERMINTERNSHIP

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Acknowledgements

The completion of this project will be incomplete without mentioning of few names. I take this opportunity to acknowledgement the efforts of the many individuals who helped the to complete this project. I want to express my heartful gratitude to sireesha for giving me the oppurnity to do my internship project at smartinternz. The supervision and support that he gave true help the progression and smoothness of the internship programm. I would like to thank Dr. Mamatha for this support and guidance throughout the project study. The co-operation is much needed appreciated

finally I would like to thank my institute faculty of software automation, LBC for making this experience of internship program. The learning from this experience has been immense and would be cherished throughout life.

Contents

This page content gives an idea only, which topics have to write.

1: EXECUTIVE SUMMARY

The internship report shall have a brief executive summary. It shall include five or more Learning Objectives and Outcomes achieved, a brief description of the sector of business and intern organization and summary of all the activities done by the intern during the period.

2: OVERVIEW OF THE ORGANIZATION

Suggestive contents

A. Introduction of the Organization
B. Vision, Mission, and Values of the Organization
C. Policy of the Organization, in relation to the intern role
D. Organizational Structure
E. Roles and responsibilities of the employees in which the intern is placed.
F. Performance of the Organization in terms of turnover, profits, market reach and market value.
G. Future Plans of the Organization.

3: INTERNSHIP PART

Description of the Activities/Responsibilities in the Intern Organization during Internship, which shall include - details of working conditions, weekly work schedule, equipment used, and tasks performed. This part could end by reflecting on what kind of skills the intern acquired.

Chapter-1 :- Executive Summary

→ learn how to obtain clean/process and transform automation testing

→ learn how to appropriate tests on the katalon

→ learn how to perform test explorers in the katalon studio as well as scripts, results and coded in the testing

→ learned how to perform well in group

→ learned how to interpret testing effectively to audience visually and in written format.

* learning outcomes :-

* Developing relevant programming abilities

* Abilities to build and perform tests based on models

* Able to create some test explores.

* Summary of Internship activities :-

* Attending live training session and project session selection of topic "cura healthcare service" and gathering cleaning its related data to Excel.

* Team formation and assignment of tasks to team members

* I have done some activities during my internship such as gathering & organizing.

Chapter-2 :- overview of the Organisation

* "Smart interng" is a platform that offers virtual internship to the students. The platform goal is to prepare students for job and by establishing relations
* Smart interng is in mission to build technology communities in academic and encourge students towards invovation, they are trained of thousands of students
* "Smart interng" restrict access to interng, who are not restricted in APSCHE. LMS. They want to maintain a respectful environment with everyone.
* If employee many people and has a good performance in terms of market value
* Roles of employee are to assit and contributes to the team
* Smart interng main objective is to bridge existing apps between prevailing and offers suitable skill development.
* In a mission to build technology communities in academic to encourge students towards innovation and interpernewriship.

chapter - 3 :- Internship part.

Internships are valuable way to gain new found knowledge This internship is a university provided internship it is a paid internship which is structed and with a learning process. Registration/registering in APSCHE smart interns & Enrolling for smartbridge's software testing automation i.e live training sessions as per schedule this is the main intense of the smart interns Organization.

* Automating testing and preparation
* Testing results
* creating visualization reports
* Creating visualization demo
* web integration on project
* preparation of the final report
* modifying test Express
* Submission of team project

WEEKLY REPORT

WEEK – 1 (From Dt..... to Dt .....)

Objective of the Activity Done: Introduction to Katalon studio

Detailed Report: Katalon studio is a powerful and versatile automation testing tool designed. For both web and mobile applications. It simplifies the testing process through it user-friendly interface and making it accessible for both experience testers and those new to automation.

Scriptless Testing:- users can create tests without writing code using the reward and playback feature. This feature captures user interaction with the applications and generate corresponding test scripts

Support for multiple platform:- It supports web, mobile and API testing this allow users to Test applications across various Environment and the device from a Single tool.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1	Introduction to Software Testing	understand the fundamentals of Software automation	
Day - 2	Different types of Software testing	understand the objectives, approaches for each type of testing	
Day – 3	Importance of software testing in software development	Analyze the role of testing in ars a software specifications	
Day – 4	Introduction to Test automation	evaluate the benfits of test automation in reward scenarios	
Day – 5	Advantages and disadvantages of test automation	Automated test provides data driven insights	
Day – 6	when to automate tools	Identify scenario where automation is beneficial	

WEEKLY REPORT

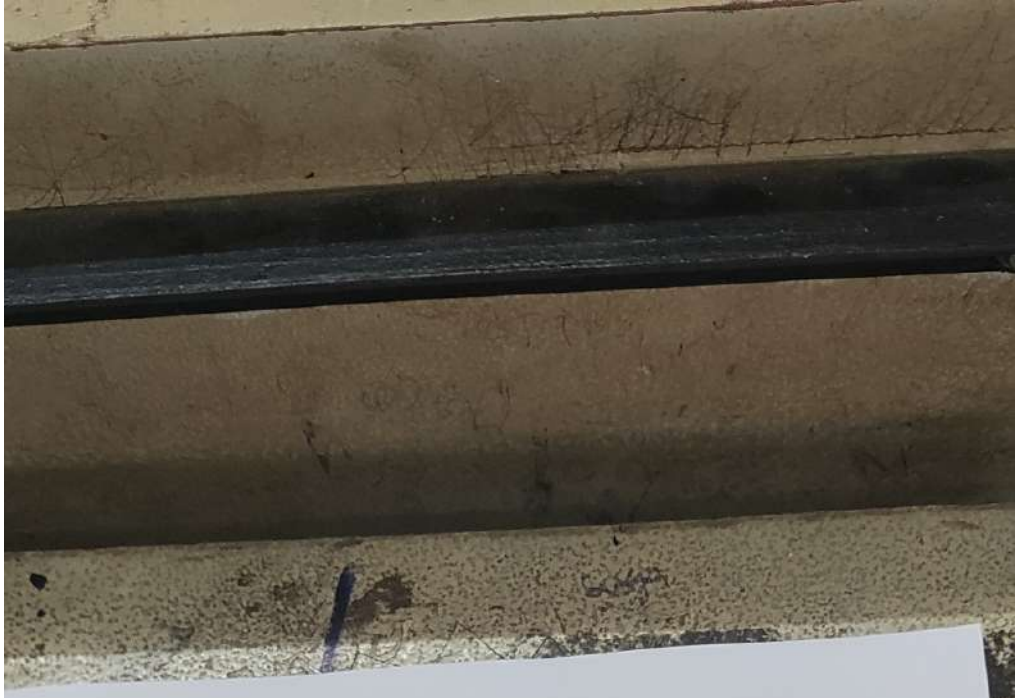
WEEK – 2 (From Dt..... to Dt .....)

Objective of the Activity Done: Introduction to Software Automation

Detailed Report: Software testing is a critical process in software development aimed at ensuring that software application function as intended and meet user requirements. It involves systematically Evaluating a software product to identify defects or issue.

purpose:- The main goals of software testing are to verify that the intended functions identify bugs and ensure that software meets quality standard and user expectation

Defect management:- Involves identifying recording and managing defects or bugs in the software. This includes tracking the defect status and ensuring they are resolved



ACTIVITY LOG FOR THE ~~FIRST~~ 2nd WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1	Introduction to katalon studio	understand the fundamentals of katalon studio of its features	
Day - 2	features of katalon Studio	create & manage a antrallized repository of test objects	
Day – 3	Installation and setup of katalon Studio	Download and Install katalon Studio on window & macos	
Day – 4	creating a new project in Katalon Studio	understand the different project templates and Tynes	
Day – 5	using katalon Studio for API Testing	Integrate katal-on studio with CI/CD pipelines for API Testing	
Day –6	using katalon Studio for visual testing, AI - augment -ed	To enhance visua l testing, machine learn-ing & Computer vision	

WEEKLY REPORT

WEEK – 3 (From Dt..... to Dt .....)

Objective of the Activity Done: Adding Test cases in katalon Studio

Detailed Report: Adding test cases involves open katalon studio : Launch katalon studio and open your existing project or create a new one

create a new Test case:-

* Go to the test case tab in the test Explorer panel on the left side of the screen
* Right - click on the cases and select new test case from the context menu and select test case.

Name the test case:-

A dialog box will prompt you to Enter a name for the new test case provide a meaningful name that provide a functionally of scenerio you are testing

→ click ok to create the test case.

ACTIVITY LOG FOR THE ~~FIRST~~ 3rd WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1	Adding test cases in Katalon Studio	Organize test case in test suits and folders	
Day - 2	Creating test Studio in katalon Studio	understand the purpose and benefits of test suits	
Day – 3	Running test in katalon Studio	configure test execution section and properties	
Day – 4	Recording and creating web test objects using katalon	understand and utilize katalon studios records modes	
Day – 5	Creating and maintaining web test objects wing katalon	maintain & refactor test Object optimal performance	
Day –6	Organizing & managing katalon test Better testing Efficiency	understand of test result anlysis and reporting	

WEEKLY REPORT

WEEK – 4 (From Dt..... to Dt .....)

Objective of the Activity Done: Data Driven test with Katalon Studio

Detailed Report: In Katalon studio data driven testing, involves using external data source like Excel file, csv files, or data bases to drive your test cases.

→ ensure your data is originated with header in the first row, and each row contains data for test case.

→ similar to Excel, ensure the data is diaginized with header

→ Go to test data section in Katalon Studio and click on new and select Test data.

→ choose Excel as the data source type after Browser and select the Excel file. Define the sheet and specify the range of cells to use in the data driven testing in Katalon studio

ACTIVITY LOG FOR THE ~~FIRST~~ 6th WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1	Data driven testing with Katalon Studio	understand the concept of data driven testing & its benefits	
Day - 2	keyword -driven testing with Katalon Studio	create & manage keyword libraries and test scripts	
Day – 3	creating custom keywords in katalon studio	use katalon Studios API to interact with test	
Day – 4	using katalon studio for cross brocusser testing	Develop a comprehensive cross browser testing strategy	
Day – 5	katalon studio extension and integration	understand how to develop custom extension	
Day –6	Integrating katalon studio with popular test management tools	configure practice test integration with Katalon studio	

WEEKLY REPORT

WEEK – 5 (From Dt..... to Dt.....)

Objective of the Activity Done: Integral katalon studio.

Detailed Report: Integrating katalon Studio with version control System like Git, SVN or other is Crucial for collaborative development and maintaining version history

→ Ensure you have a Git repository set up with a platform like GitHub or Bitbucket.

→ Go to file > settings (windows) or katalon Studio > perferences and go to team > Git

→ If you are starting from an existing Git repository use file > import > Git > projects from Git and Enter your repository URL and follow the prompts to clone the repository

→ To pull the latest changes from the remote respotory, use team > pull

ACTIVITY LOG FOR THE 5th FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1	Integrating Katalon Studio with other version control systems	understand to use versim control with team members	
Day - 2	using Katalon studio plugins to enhance functionally	use pluging enhance test automation	
Day – 3	Integrating Katalon Studio with Jenkin -S or other CI/CD	learn how to create CI pipelin es for test automation	
Day – 4	Katalon Studio reporting and analysis	understand how to generate and customize report	
Day – 5	Test case execution reports in Katalon Studio	configure rep- ort setting and templates	
Day – 6	customizing test reports in Katalon Studio	understand how to use Scripts to add logic to reports	

CHAPTER 6: OUTCOMES DESCRIPTION

Describe the work environment you have experienced *(in terms of people interactions, facilities available and maintenance, clarity of job roles, protocols, procedures, processes, discipline, time management, harmonious relationships, socialization, mutual support and teamwork, motivation, space and ventilation, etc.)*

In Software automation testing, The work environment typically includes:

work place setting:-

Testers may work in traditional office environments, tech startups, or fully remote setups. offices often feature cubicles or open spaces, while remote setups require a home office with appropriate tech & communication tools.

Collaborative Atmosphere:-

The role often involves frequent interactions with developers · QA teams, project managers and some-time clients. callaboration tools like slack, microsoft and zoom.

Technical workspace:- Testers use development tools such as integrated Development Environments. and test management tools. they also work with automati-on frameworks and CI/CD tools to streamline test processes

continuous testing environment:- The work involves into grating automated tests into CI/CD pipelines to Ensware That tests are run development process.

Dynamic and iterative tasks :- The environment is often dynamic with tasks ranging from creating and maintaining test script to analyzing test results & debugging failures.

Problem-solving focus :-
Testers frequently trouble shoot and debug issue in both the test scripts and a, the application being tested. this involves working with logs, debugging tools, and performance monitoring tools.

Documentation and Reporting :- A significant part of the job involves documenting test case, results, and defects. Testers use tools like JIRA or testrail to track progress and report findings.

Regular meetings :- Teams often have regular stand ups, sprint planning sessions, and retrospectives to discuss progress, challenges, and future testing needs. overall, the work environment in Software automation testing is characterized by a blend of technical tasks, collaboration, continuous improvement and adaptability to Ensure the quality and reliability of Software products.

Describe the real time technical skills you have acquired *(in terms of the job- related skills and hands on experience)*

In real-time Software automation testing, profession -als acquire serval key technicals skills.

1. programming and Scripting:- proficiency in programming languages (eg. Java, python & C#) to develop and maintain automated test scripts.
2. Test Automation Tools:- Expertise in tools like Selenium, QTP/UFT, & test complete for creating & Executing automated tests.
3. continuous Integration/continuous depolyment (CI/CD): Familiarity with CI/CD tools like Jenkins, Gitlab CI, & Trails CI to integrate automated tests into the development pipeline and ensure. continuous quality.
4. version control System:- Skills in using Git & SVN for managing test scripts, tracking changes and collabrating with other team members.
5. Test frameworks:- knowledge of framework such as Junit, TestNG & cucumber for structuring and running tests in an organized manner.
6. API Testing:- experience with tools like postman, RESET Assured, & Soap UI for testing and validating APIS.

Describe the managerial skills you have acquired *(in terms of planning, leadership, team work, behaviour, workmanship, productive use of time, weekly improvement in competencies, goal setting, decision making, performance analysis, etc.*

In software automation testing, managerical skills involve overseeing various aspects of the testing process and team dynamics. key managerical skills include.

Project management :- Ability to plan, execute, and monitor testing projects, including setting timelines, managing resources, and ensuring that testing miles to align with project goals.

Team Leadership:- leading and motivating a team of testers, managing their workloads, providing their work loads, providing guidance and fostering a collaborative and productive work environment.

Resource Allocation :- Efficiently allocating tasks and resources, including assigning test case, managing testing environments and ensuring the availability of necessary tools and infrastructure.

stake holder communication :- Effectively communication with stakeholder, including developers, products managers and Executives, to report on test progress, raise issue and provide feedback.

Risk management :- Identifying potential risks in the testing process such as resources constraints.

81 technical challanges and development and developing strategies to mitigate them.

process improvement :- continuously evaluating and improving testing process and methodologies to enchance effici -ency, effectiveness and coverage

Budget management :- Managing the budget allocated for testing activities, including tools licenses, training and personal costs. while ensuring cost-effectiveness

Training and development :- providing training and development opportunities for the testing team to keep them updated with the latest tools, techniques and best pratices.

Can flict Resolution :- Handling conflicts and challenges with the team or with other departments, ensuring that issues are resolved in a constructive and timely manner.

These managerial skills help ensure that the automation testing process runs smoothy aligns with project objectives and contributes effectively to the quality assurance strategy.

Describe how you could improve your communication skills *(in terms of improvement in oral communication, written communication, conversational abilities, confidence levels while communicating, anxiety management, understanding others, getting understood by others, extempore speech, ability to articulate the key points, closing the conversation, maintaining niceties and protocols, greeting, thanking and appreciating others, etc.,)*

To improve communication skills in software automation testing, focus on the following strategies clarify objectives:- clearly defined the goals and scope of your communication. whether it's a test plan, a status update, or a bug report, ensure that the purpose is well-articulated and understood by all parties involved.

enhance documentation: write clear, concise and organized test cases, plans, and report use a standardized format to make documentation format to make documentation easy to follow and reference. Include necessary details and context to avoid ambiguity.

use visuals:- Incorporate diagrams, charts and screenshoots in reports and presentation visual aids can help convey complex information more clearly and are especially useful of illustrating issue of results

provide Regular updates:keep stakeholders informed with regular progress reports.

Describe how could you could enhance your abilities in group discussions, participation in teams, contribution as a team member, leading a team/activity.

To Enchance abilities in group discussions, team participation and leadership within the context of software automation testing, consider implementing the following strategies and practies.

Group Discussions:-

~~parti~~ preparation:- Review relevant materials such as test plans, results and issue before discussions. Be reddy to contribute informed insights

Effective communication:- pratice clear and concise communication. Tailor your massage to the audience avoiding unnecessary technical fargon when spe -aking with non- technical team members.

Active listening:- listen carefully to others points of view Acknowledge their contributions and ask clarifying question to ensure mutual understanding.

Team participation:-

Collaboration:- Actively engage in team activities offering support and feedback. share knowledge and resource to help achieve common goals

* Responsives:- Be prompt in responding to communications and requests. keep your team update on your progress and any issues that may aries.

Leadership :-

* Vision and Goals :- clearly define the vision and goals for the automation testing efforts. Ensure the team understands how their work contributes to the overall objectives
* Mentorship :- Guide and support team members in their professional development. share your expertise in automation tools and best practices
* Decision - Making :- making informed decisions based on data and team input Be transparent about the reasoning behind your decisions and involves the team when appropriate.

Recognize and reward the achievements and contributions of team members. Encourage a culture of appreciation and motivation.

Be flexible and open to change Adapt leadership strategies and project plans based on evolving needs and feedback from the team

By incorporating these strategies you can enhance your effectiveness in group discussions. improve your participation in teams and strengthen your leadership skill in the context of software automation testing.

Describe the technological developments you have observed and relevant to the subject area of training *(focus on digital technologies relevant to your job role)*

In recent years, several technological developments have significantly impacted the field of software automation testing. Here are some key advancements relevant to this area.

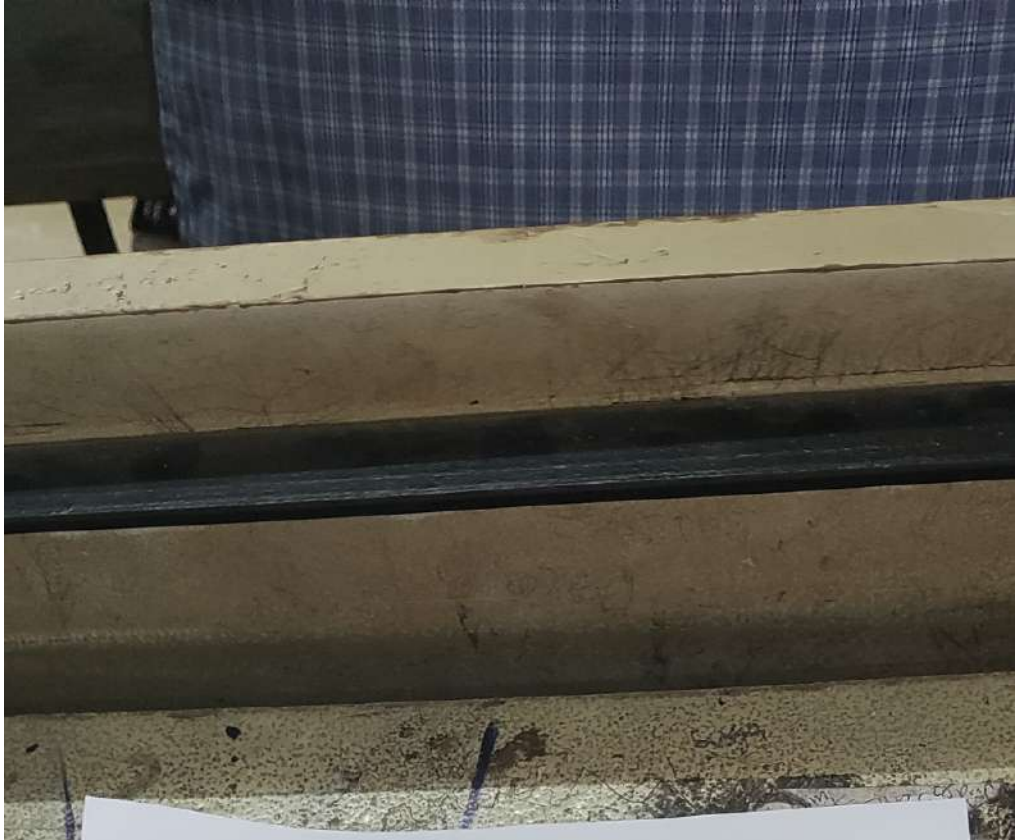
Advanced Automation tools :- Tools like testing and applitools leverage AI and machine learning to enhance test automation by automatically identifying and adapting to changes in the user interface and improving test script reliability

Low-code/no code platform :- platform such as katalon Studio and usetrace allow users to create automation tests with minimal coding, making it easier for non developers to participate in test automation.

Integration with CI/CD pipelines :-

Tools like. Jenkins, Gitlab CI, and circle CI have became integral to the testing process, enabling automated tests to be triggered automatically with every code change and integrated into the development pipeline.

Test environment :- services like browser stack and sauce labs offer cloud-based testing environment allowing testers to run test across various browsers



and devices without needing to maintain extensive in-house infrastructure.

- unified test management Tools :- Solutions such as Test Rail & zephyr provide comprehensive test management capabilities, integrating test case management, execution.

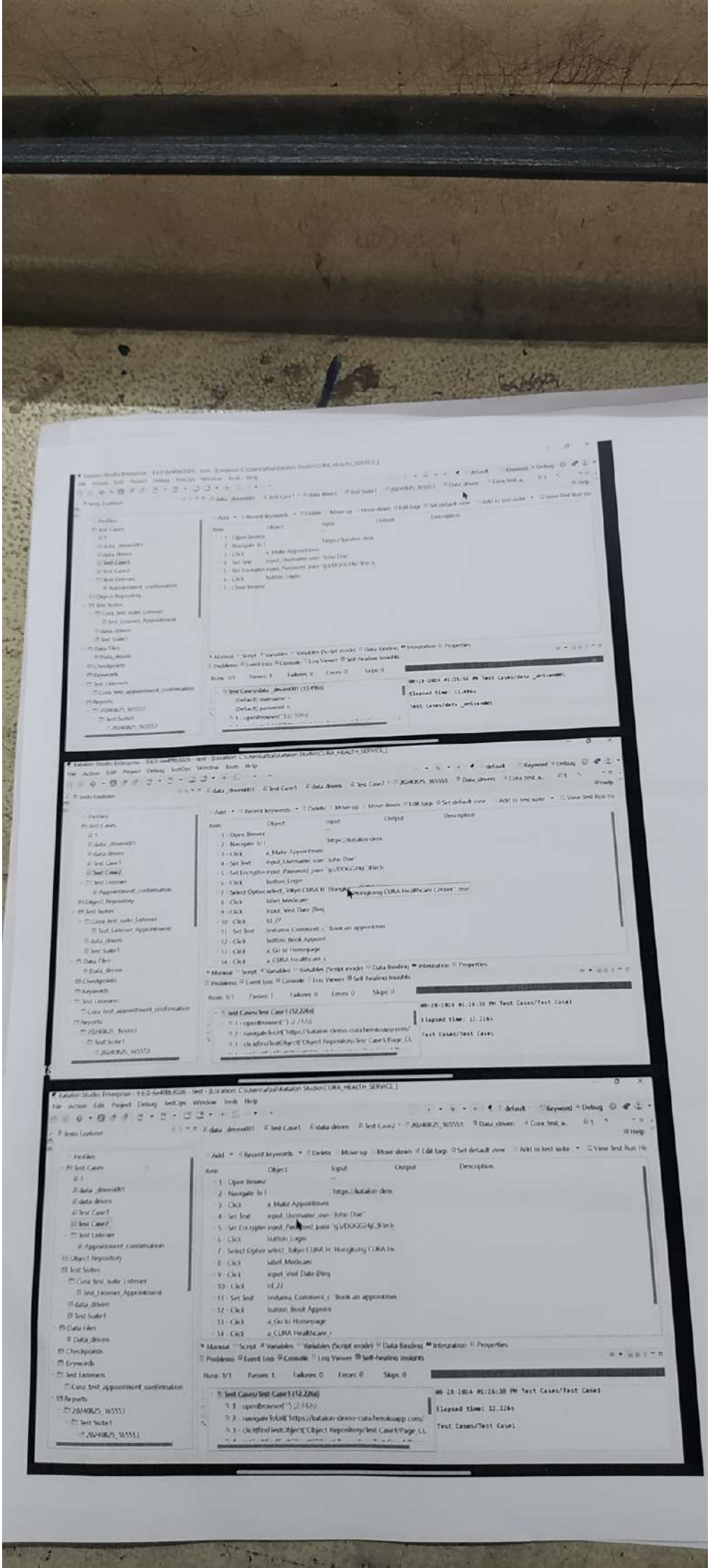
* Real time performance Monitoring :- Tools like Grafana and new Relic provide real time monitoring and analytics allowing testers to asses performance and detect issues during testing & production.

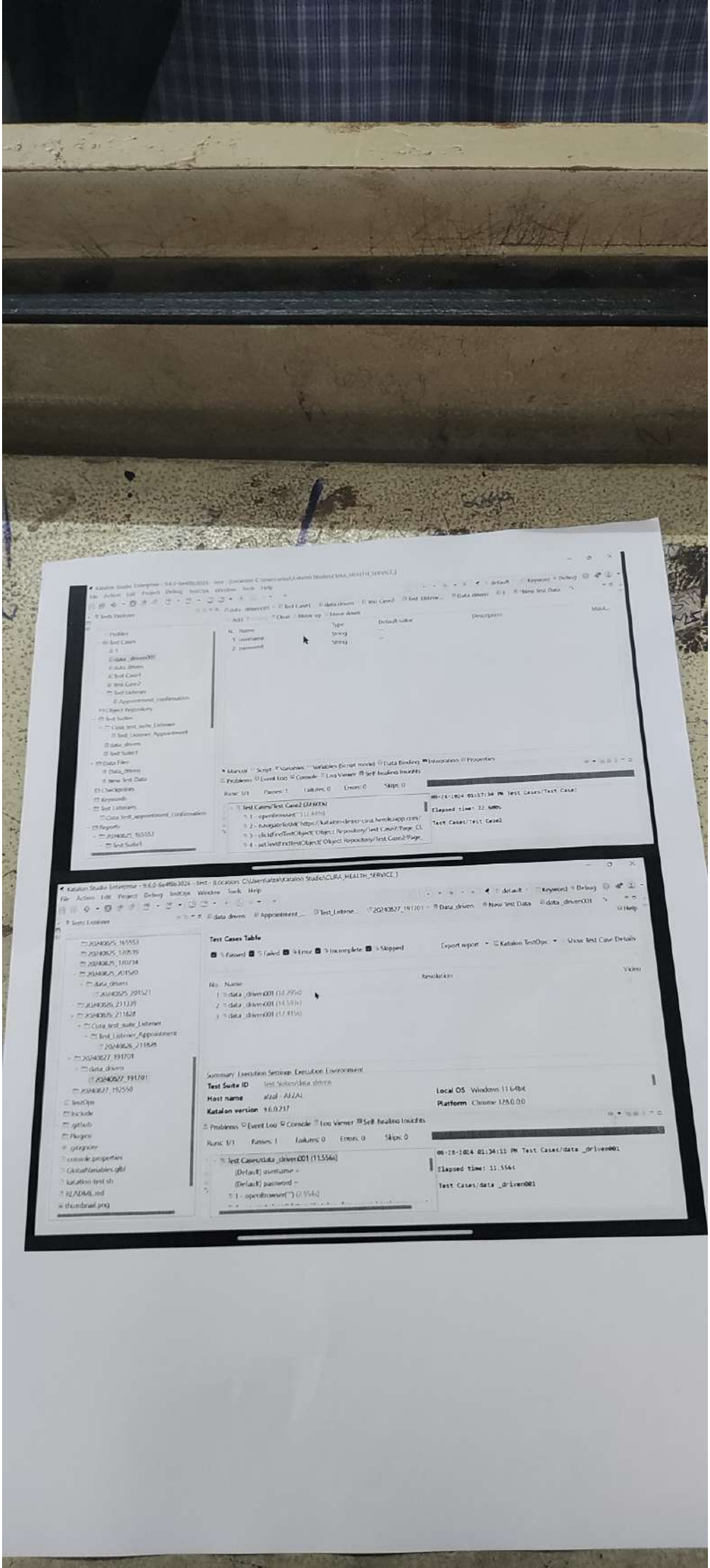
API Testing improvement :-

* Enhanced API Testing tools :- Tools such as postman and soap UI have evolved to support comprehensive API testing, including automated tests, performance benchmarks, and detailed reporting.

Test Automation framework :-

Emerging frameworks like cypress for end-to-end testing and playwright for cross-browser testing offer modern approaches to writing and executing automated test with improved speed and reliability




Test Cases Table
Test Suite ID
Host name
Katalon version
Local OS
Platform
Elapsed time: 11.556s
Test Cases/data _driven001