



SHORT-TERMINTERNSHIP



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Acknowledgements

Acknowledgements software automation testing involves recognizing its benefits and its benefits and its role in the software.

Development lifecycle. Here's a brief overview:

1. Efficiency and speed:

Automation testing up the testing process by executing tests quickly and consistently.

2. Reusability:

Automated test script can be reused across different test cases and iterations.

3. Accuracy:

Automation reduces human error, ensuring more accurate and reliable test results.

It allows for extensive test coverage by executing.



CONTENTS

1. Executive summary
2. Overview of the Organisation
3. Internship part
4. Activity log for the eight week
5. Weekly reports
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Shot on OnePlus
Kumar

CHAPTER 1 : EXECUTIVE SUMMARY

Description of the sector of business and its organization: Smart bridge operators in the data analytic sector providing innovative solution to enhance the business intelligence. The organization the enhance the ages.

Learning objectives and outcomes:

- Data cleaning
- Data prepossessing and manipulation
- Statistical analysis
- Attending live training session and project monitoring session.
- Team formation and assignment of tasks to team members.
- Designing and developing dashboard and report.
- Drafting project video demonstration and preparation of final reports.

CHAPTER 2: OVERVIEW OF THE ORGANIZATION

Smart bridge is a platform that virtual internship to the student for the job market by established a cooperative relationship between industry and academia. Smart bridge partners with companies such as google to offer virtual internship. Smart bridge flagship event project is the "summer internship program". The program develops students skills in emerging technologies. i.e.

- Artificial intelligence
- Machine learning
- Internet of things.

Organization objective:

Smart bridge main objectives is to bridge the existing gaps between favoring industry standards and what the academy offer to the graduate which passing out of university.

Smart bridge offers suitable skills development

and training to the young talent before on boarding their first job. Their skills development programs are designed considering the present in demand skills in the industry.

Therefore, the main objectives of Smart bridge is providing internship for every student promote industry approved professional certificates and becomes a talent factory of India by 2026.

CHAPTER 8 : INTERNSHIP PART

Description of the activities / Responsibilities undertaken:

- Registering with ANSCHE Grant intern and enrolling for smart bridges data analysis course to live training session as per the pre-scheduled training calendar.
- Participating weekly quiz and completing weekly assignment with reports to data analytics.
- Gathering, cleaning and analyzing the real data sets of the project.
- Attending project monitoring sessions and design and developing interactive dashboard story, report.
- Submission of team project via uploading the project files in github repository of the team.

CHAPTER 4: 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.)

1. Technical Setup:

You will often work with various testing tools and framework such as a Selenium, JUnit, TestNG, or Appium. This setup usually includes integrated development environment (IDEs) like Eclipse or IntelliJ IDEA and Version control system like Git.

2. Collaboration:

Communication with other team members including developers, QA engineer and project manager is crucial. This can involve daily stand ups, sprint planning, and status meetings to discuss progress and issues.

3. Script development:

Writing and maintaining automated test scripts is a core part of the job. This often involves programming languages such as Java, Python or JavaScript.

4. Test Execution and Monitoring:

Running automated test suites, analyse test result and monitoring for failures are key tasks. you may use continuous integration.

5. Troubleshooting and debugging:

Identifying and resolving issues within the test scripts of the application under test require using strong problem-solving skills.

6. Documentation:

Maintaining comprehensive document for testcases, scripts and test result is important for ensuring clarity and reproducibility.

7. Learning and Adapting:

The field requires continuous learning to stay updated with new tools, technologies and best practices.

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	Software testing is an indispensable part of software development.	
Day - 2	Introduction about software development life cycle	The software development life cycle is essential.	
Day - 3	Types of software Testing	These different types of software testing help ensure.	
Day - 4	Importance of software Testing	Software testing is essential to ensure that software.	
Day - 5	Steps of Software development of life cycle	The SDLC provides a systematic.	
Day - 6	Fundamentals of Software test	Understanding the fundamental software testing is essential.	

WEEKLY REPORT

WEEK - 1 (From Dt..... to Dt.....)

Objective of the Activity Done: Introduction of Software development life cycle

Detailed Report:

The software development life cycle is a structured approach to software development that provides a systematic process of planning, creating, testing, and developing software the application.

The phase involves gathering and analyse the needs and requirement of the end users and stakeholders. it aims to understand what the software should do and its constraints.

In this phase, project goals are defined, resources are allocated, time line are established and the scope of the project is outlined. Risk assessment and mitigation strategies are also developed.

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction to test automation	Test automation is powerful approach to improving.	
Day - 2	Advantages and disadvantages of test automation.	Test automation is significant of advantages.	
Day - 3	Why to automation test	The Test automation is most beneficial when applied to repetitive.	
Day - 4	Test automation tools	The choice of a test automation depends on various factors.	
Day - 5	How to use automation tools.	using automation tools effectively require a solid.	
Day - 6	application of automation tools.	The choice are applied across various domain	

WEEKLY REPORT

WEEK - 2 (From Dt..... to Dt.....)

Objective of the Activity Done: *Automation Testing*

Detailed Report:

Automation testing involves using specialised tools and scripts to automatically execute test cases and verify software functionality. Unlike manual where human testers execute test cases and check result automation testing uses pre-written scripts to perform tests faster and more consistently.

Automated tests run faster than manual tests, enabling more tests to be completed in a shorter time.

Test script can be reused across different version of application. Automated Tests reduce human error and ensure consistent result.

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction to katalon Studio	Katalon Studio is comprehensive and versatile test automation.	
Day - 2	Features of katalon Studio	Katalon studio Combination Of ease of use.	
Day - 3	installation and setup of katalon Studio	Katalon studio install and ready to use test automation.	
Day - 4	uses of katalon studio	Katalon studio is streamlines the Test process.	
Day - 5	Application of katalon Studio	Katalon studio Versatility and extensive feature	
Day -6	katalon run time engine .	Katalon runtime engine enhance of test automation	

WEEKLY REPORT

WEEK - 3 (From Dt..... to Dt.....)

Objective of the Activity Done: Introduction of Katalon Studio

Detailed Report:

Katalon Studio is a comprehensive test automation tool developed by Katalon, Inc. designed for both beginners and experienced testers. It supports web, mobile, API, and desktop application testing, making it a versatile solution for automated testing across different.

Katalon Studio provides an integrated environment with a wide range of features including recording, test case management, execution and reporting. It simplifies the automation process, enabling testers, to create, run, and analyse tests within a single platform.

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	How to create a new project in katalon studio	Katalon studio is begin creating and managing the Test case.	
Day - 2	How to add test cases in katalon studio	It is creating and managing test cases.	
Day - 3	How to add test cases through object repository in katalon studio	The object repository manage and reuse your test object	
Day - 4	How to run test Cases in katalon studio	Running test case is an essential part of testing.	
Day - 5	How to create test suites in katalon studio	Creating a test Suite allows you to group multiple	
Day - 6	How to run test Suites in katalon studio	Running test Suites allows you to execute multiple test	

WEEKLY REPORT

WEEK - 4 (From Dt..... to Dt.....)

Objective of the Activity Done: Katalon Studio basic operations.

Detailed Report:

Katalon Studio simplifies test automation with a user-friendly interface and a variety of built-in tools. Below are the basic operations to get started with Katalon Studio.

Install the software by following by the setup instructions. No complex configuration is needed.

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Recording and Creating test cases in Katalon Studio.	Katalon Studio also offer extensive documentation and tutorials.	
Day - 2	Creating and maintaining web tests object using Katalon Studio	By effectively creating and the maintaining web.	
Day - 3	Organizing and managing katalon tests for better testing efficiency	The efficiency of your testing process improve test.	
Day - 4	Data driven testing with katalon studio	Data driven testing enhance the covering of your test case.	
Day - 5	How to create datatiles for data driven testing	The data files for data driven testing	
Day - 6	How to run data driven testing.	The effectively run data - driven tests in Katalon studio	

WEEKLY REPORT

WEEK - 5 (From DI..... to DI.....)

Objective of the Activity Done: Test Case Creation and management
in katalon studio.

Detailed Report:

Creating and managing test case in katalon studio is straight forward thanks to its intuitive interface and versatile features. Below is a detailed guide on how to create and manage test case effectively in katalon studio.

If you need functionality beyond the built in keywords, you can create custom keywords within the package, create a new groovy class to define your custom keyword.

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-charge Signature
Day - 1	How to create test listening case	A Test listening case is component in software testing framework.	
Day - 2	test listening testing with Katalon studio	test listening by katalon studio.	
Day - 3	How to run a test suite by adding test listening	It allows you to execute specific code.	
Day - 4	How to create a test listening.	It is a generic guide on creating a test listening.	
Day - 5	Advanced its test automation techniques with Katalon studio	While it provides an easy to use interface.	
Day - 6	How to change the script of test listening.	The specific steps will depends on the language.	

WEEKLY REPORT

WEEK - 6 (From Dt..... to Dt.....)

Objective of the Activity Done: Advanced test automation with Katalon Studio.

Detailed Report:

Advanced test automation in Katalon Studio involves leveraging its powerful features and customization to handle complex testing and integrate with various tools for a complete automation life cycle. Below is a guide to mastering various tools for a complete automation life cycle. Custom keywords extend Katalon Studio functionality by allowing you to create reusable automation script for complex operations.

ACTIVITY LOG FOR THE SEVENTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Katalon Studio extensions and integration.	Katalon Studio a variety of the extensions.	
Day - 2	integrating katalon studio with git	integrating Katalon Studio with git allow you to manage	
Day - 3	Integrating Katalon Studio with popular test management tools.	integrating Katalon Studio with popular test management	
Day - 4	Integration Katalon Studio with git with other Version Studio	integrating Katalon studio with git	
Day - 5	using Katalon studio plugin to enhance functionality.	These plugins are available through the Katalon store	
Day - 6	Integrating Katalon Studio with jenkins or other CI/CD.	It allows you to automate	

ACTIVITY LOG FOR THE EIGHTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	How to report and analyse it.	It involves generating and sharing test execution.	
Day - 2	Test case execution report in Katalon studio	It can be also in several ways.	
Day - 3	Test Suite execution reports in Katalon studio	It is the test suite execution reports that include analysis.	
Day - 4	Developing and executing a comprehensive test automation project using Katalon Studio.	Developing and executing a Katalon Studio.	
Day - 5	Customizing test report in Katalon Studio	The test report studio allows you to tailor.	
Day - 6	Demonstrating knowledge and skills learned throughout the course.	The knowledge and skills learned throughout the studio.	

WEEKLY REPORT

WEEK - 8 (From Dt..... to Dt.....)

Objective of the Activity Done: Katalon Studio reporting and analysis

Detailed Report:

Katalon Studio provides robust reporting and analytics features that allows users to generate, customize and analyse test features is crucial for making informed decision about the quality of your software and identifying areas for improvement. Below a comprehensive guide on reporting and analysis in Katalon Studio.

Katalon studio comes with built in reporting capabilities that provides immediate feedback on your test. After execution a test case Katalon studio generates a detailed report showing the status of each step.

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

1. Scripting and programming language:

Proficiency in languages like Python, Java or JavaScript is crucial. Automation frameworks often require writing scripts to create and manage test cases.

2. Test Automation:

Familiarity with tools such as Selenium, JUnit, TestNG or Cypress is essential. These tools help automate execution of test cases and manage testing processes.

3. Continuous integration:

Knowledge of CI/CD tools is important for integrating automated tests into the development pipeline, ensuring that code changes are tested.

4. Version Control System:

Experience with Version Control System like Git is necessary for managing system like Git is necessary collaborating with other team members.

5. Debugging and Troubleshooting:

Skills in debugging and troubleshooting are important for identifying issues in test scripts.

6. Test case design and maintenance:

Ability to design robust test cases and maintain them as application evolve is key to effective automation.

7. performance Testing:

Understanding performance testing tools to assess how system handle load and stress.

8. Data Management:

Skills in handling test data, including creating, manipulating and managing data for test, are vital for comprehensive testing.

9. API Testing:

proficiency in testing APIs using tools like postman or REST-assured, which involves validating interactions.

10. SDLC :

Knowledge of Various SDLC methodologies to align test strategies with development practices.

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.

1. Project Management:

Ability to plan, execute and oversee testing projects, including scheduling, resources allocation, and budgeting.

2. Team Leadership:

Skills in leading and motivating a team of testers or engineers.

3. Stakeholder Communication:

Proficiency in communication with stakeholders, including developers, product manager, and executives to ensure that test objectives align with business goals.

4. Risk Management:

Identifying and managing risks associated with testing, resources constraints or technical challenges and developing strategies.

5. Strategic planning:

Ability to develop and implement test strategies and plans that align with the overall project goals.

6. Quality Assurance:

Ensuring that automation tests meet the quality standards and that the test results are accurate and reliable.

7. Resource Management:

Managing resources effectively, including human resources, software tools, and hardware.

8. Performance Metrics:

Defining and tracking key performance indicators for the testing process to measure success, identify areas for improvement, and make data-driven decisions.

Describe how you could improve your communication skills (in terms of improvement in oral communication, written communication, conversational abilities, confidence level 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.)

1. Technical Documentation:

Developing clear and detailed document for test scripts, procedure and result and bug reports that can be easily understand by both technical and non-technical stakeholders.

2. Reporting:

Creating and presenting test result and progress reports effectively. By providing actionable insights in a format that is accessible to different audience.

3. Collaboration:

Working closely with developers, product managers, and other team members.

4. Feedback Delivery:

Providing constructive feedback to team members and stakeholders about the quality of the code, test cases & testing process.

5. problem - solving Discussion :

Engaging in discussion to troubleshoot and resolve issue found during testing. The collaborating on finding the best approach to address issues.

6. requirement gathering:

Communicating with stakeholders to gather and clarify testing requirement and expectation.

7. Conflict Resolution:

Handling disagreement or conflict related to testing priorities, scope or result. Effective communication helps in negotiating solution and maintaining a positive team dynamic.

8. Training and mentoring:

Teaching and guiding other team members in test automation practices. This includes explaining complex concepts, sharing best practices, to use automation tools effectively.

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

1. Preparation:

Come to discussion well prepared with relevant data, test result and a clear understanding of the issue or topics.

2. Active Listening:

Focus on understanding the points raised by others before responding.

3. Clear Communication:

Astutate ideas and observation clearly and concisely. use precise language and avoid jargons that might.

4. Encourage participation:

Invite input from all team members, ensuring that everyone has a chance to contribute.

participation in Teams:

1. Collaboration Attitude:

Be open to other ideas feedback.

2. Responsibility sharing:

Take on tasks and responsibility as agreed upon in team meetings.

3. supportive Role:

Offer assistance to teammates when needed and be proactive in addressing any issues.

Contribution as a team members:

1. initiative:

Take the initiative to propose improvement or new strategies.

2. Documentation:

Contribute to maintaining comprehensive and up-to-date documentation.

3. collaboration tools:

Use collaboration tools effectively to communicate, share updates and track progress.

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

1. Advanced Automation Tools:

Tools like Selenium, Test Complete and Appium have evolved significantly, offering more robust and versatile testing capabilities.

2. AI and Machine Learning:

AI-driven testing tools are becoming more prevalent.

3. Continuous Integration and CD:

Automation tools are increasingly integrated into CI/CD pipelines, allowing for real-time testing and feedback during the development process.

4. Cloud-Based Testing:

Platforms provide scalable testing environment and facilitate testing across various configuration and devices without the need for extensive physical infrastructure.

5. Robotic process Automation:

RPA tools are being used to automate repetitive testing tasks, reducing manual effort and increasing accuracy.

6. Test Data Management:

Enhanced tools for managing test data, including data generation and data masking help in creating realistic and secure test environment.

7. performance and Load Testing:

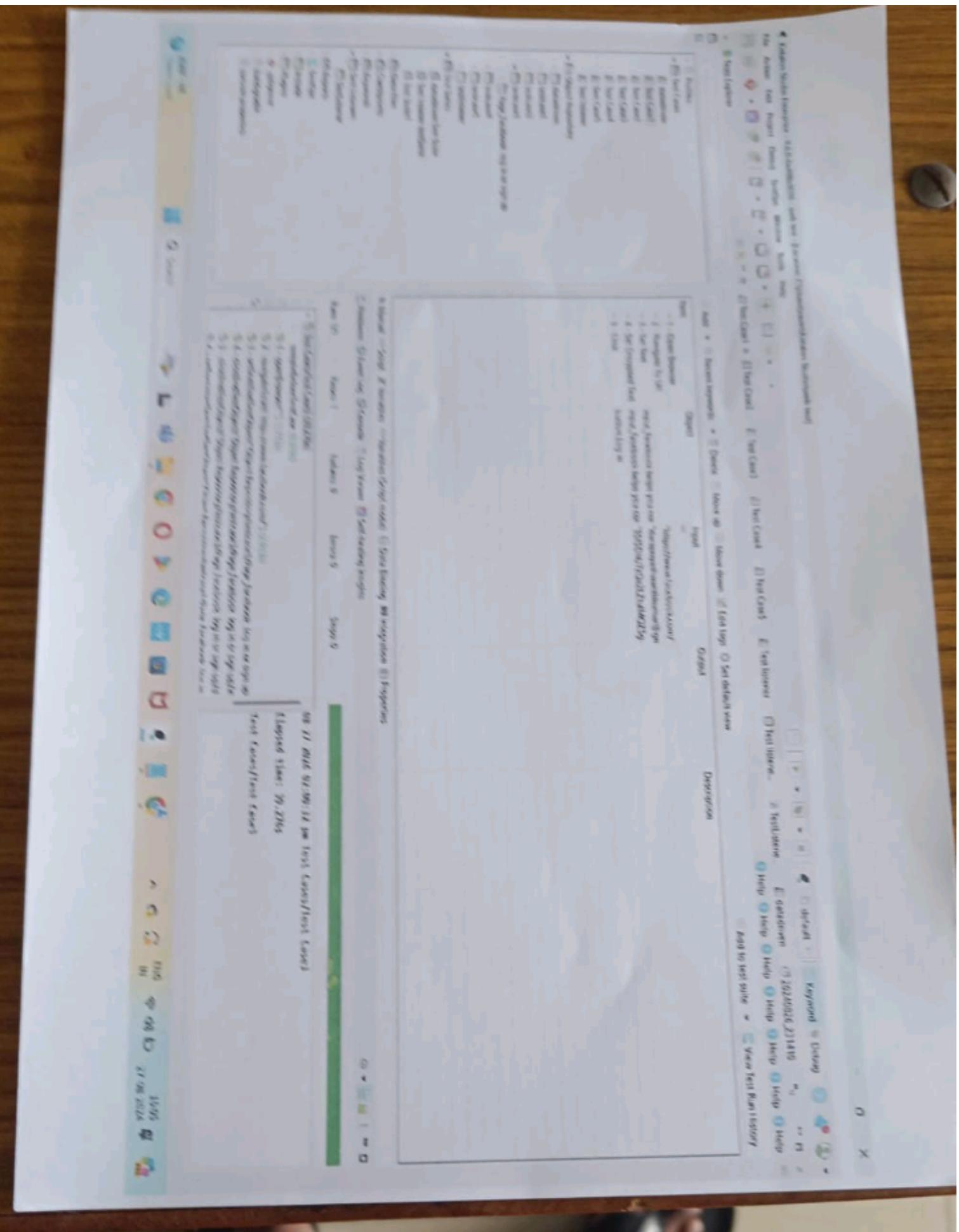
Tools have improved in simulating high load scenario and monitoring performance metrics in real time.

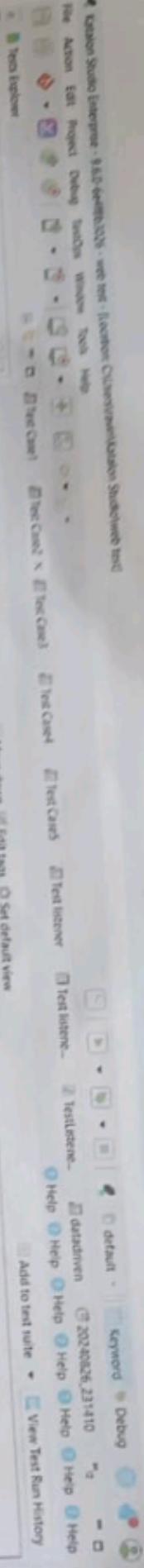
8. Visual Testing:

Automated visual testing tools have advanced to check UI elements for consistency and correctness, identifying visual defects that may be missed functional test.

PHOTOS & VIDEO 1000

Page No





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<input checked="" type="checkbox"/>	Test Case2	X	Test Case5
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			Test Listener...
			Test Listener
			Add to test suite
			View Test Run History
			default
			Keyword
			Debug

Add	Recent keyword	Delete	Move up	Move down	Edit tags	Set default view

Name	Object	Input	Output	Description
→ 1 - Open Browser		~	"https://www.facebook.com/".	
→ 2 - Navigate To URL			"https://www.facebook.com/tanayognatharimb123456789"	
→ 3 - Set Text			myselfFacebook helps you co "yNQ4z+4tGCoQ"	
→ 4 - Set Encrypted Text			myselfFacebook helps you co "SSO3Dn7QaLZh1mQ2Zgj"	
→ 5 - Right Click			myselfFacebook helps you co	
→ 6 - Click			myselfFacebook helps you co	
→ 7 - Double Click			myselfFacebook helps you co	
→ 8 - Set Encrypted Text			myselfFacebook helps you co	
→ 9 - Click			myselfFacebook helps you co	
→ 10 - Click			button Log in	

Ran: 1/1	Passes: 1	Failures: 0	Errors: 0	Skipped: 0

Run ID: 00000000-0000-0000-0000-000000000000

N Manual → Script X Variables □ Variables (Script mode) □ Data Binding □ Integration □ Properties

Problems Event Log Console Log Viewer Self-healing insights

08-27-2024 04:09:08 pm Test Cases/Test Case3

Elapsed time: 39.247s

Test Cases/Test Case3

- 1 - OpenBrowser("https://www.facebook.com")
- 2 - NavigateToURL("https://www.facebook.com/tanayognatharimb123456789")
- 3 - SetText("myselfFacebook helps you co "yNQ4z+4tGCoQ")
- 4 - SetEncryptedText("SSO3Dn7QaLZh1mQ2Zgj")
- 5 - RightClick("myselfFacebook helps you co")
- 6 - Click("myselfFacebook helps you co")
- 7 - DoubleClick("myselfFacebook helps you co")
- 8 - SetEncryptedText("myselfFacebook helps you co")
- 9 - Click("myselfFacebook helps you co")
- 10 - Click("button Log in")



Kulsion Studio [Interprete: 9.8.0-SNAPSHOT - mit test [location: C:\Users\zeyn\Kulsion Studio\src\test]]

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Test Explorer

Actions	Recent Test Cases	Test Case 1	Test Case 2	Test Case 3	Test Cases	Test Suites
Add Recent Test Cases Delete Move up Move down Edit tags Set default view						

Add Recent Test Cases • Delete Move up Move down Edit tags Set default view

Item	Object	Input	Output	Description
-> 1- Open Browser				"https://www.facebook.com"
-> 2- Navigate To Url				"https://www.facebook.com/akashyashwanikumar99"
-> 3- Set Host				"input.facebook helps you to 'akashyashwanikumar99'"
-> 4- Set Encoded Text				"SSQDmJfDAAJ2hM02S9j"
-> 5- Click				"facebook help you com button Log in"
-> 6- Click				"facebook help you com button Log in or sign up"
-> 7- Click				"facebook help you com button Log in or sign up"
-> 8- Click				"facebook help you com button Log in or sign up"
-> 9- Click				"facebook help you com button Log in or sign up"
-> 10- Click				"facebook help you com button Log in or sign up"

Test Case 1

Test Case 2

Test Case 3

Test Cases

Test Suites

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Run

Search



8/27/2024 8:49:08 pm Test Cases/Test Case3

Screenshot tool

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Select here to mark