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	starting the day with brief meeting to discuss yesterday progress.	
Day - 2	Wiffrent types of software testing.	checking existing test caxes fo accuracy and main tainabilty.	
Day – 3	importance of software testing in Software development	Creating automated test scripts for new features & functionalitie	
Day – 4	executing test suits	Running existing automated test suits to identify defects.	
Day – 5	Debugging and Trouble shooting.	Investigation test failures and fixing issues in the test script.	
Day – 6	maintaing test Environment	Ensuring the test Environment is set up correctly and necessary dat	

WEEKLY REPORT

WEEK – 1 (From Dt..... to Dt .....)

Objective of the Activity Done:

Detailed Report:

Quality Assurance: It helps to identify and rectify early in the development process, preventing them from reaching the end-users and causing potential issues

Risk mitigation: By covering and addressing potential problems, testing helps to reduce the risk of software failures and disruptions.

Customer Satisfaction: High-quality software that meets user expectations leads to greater Customer Satisfaction and loyalty.

Compliance: Testing can ensure that the software adheres to industry standards, regulations, and legal requirements.

Test planning: This involves defining the scope, objectives, and resources required for testing.

Second

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Test automation pyramid	It is conceptual model that suggests that automated tests.	
Day - 2	Test automation frameworks	A framework provides a structural and guidelines for creating.	
Day - 3	Test automation Tools	There are many tools available for automating different types of tes	
Day - 4	Test automation challenges	Automation test can become outdated as the software changes	
Day - 5	Test data management.	managing test data can be a challenge, especially for large.	
Day - 6	Test Environment	the hardware and software configuration required to run tests	

WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

1. Test automation pyramid:- This is a conceptual model that suggest that automated tests should be structured in a hierachal manner.

Unit test:- Test individual components or functions of the software. They are the most granular level of testing.

Integration test:- test how diffient components interact with each other.

End-to End test:- Test the entire system from the user's perspective, simulating real-world scenarios.

2. Test automation frame work:- A frame work provides a structure and guidelines for creating and executing automated tests. It often includes.

Test scripts: The actual code that executes the tests.

Test data:- the data used to drive the tests.

ACTIVITY LOG FOR THE ~~FIRST~~ third WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Increased efficiency	Automated tes-ces manual testing efforts, leading.	
Day - 2	improved Accuracy	Automated tests can help prevent human errors and ensure test.	
Day - 3	Enhanced test coverage	Katalon Studio allows you to create comprehen-sive test suites.	
Day - 4	Simplified maintenance	It provides a str-uctured approach to test case mana-gement.	
Day - 5	community support	Katalon Studio ha a large and activ community offeri-ng resources	
Day - 6	Reporting and Analytics.	Katalon studio generates detailed test reports.	

WEEKLY REPORT

WEEK – 3 (From Dt._____ to Dt _____)

Objective of the Activity Done:
Detailed Report:

Katalon studio is a comprehensive automation tool designed specifically for Web, Api, and mobile application testing It's a popular choice among testers due to its user-friendly.

- Intuitive Interface: Katalon Studio offers a simple, drag and drop interface that makes it easy for both technical and non-technical users to create and execute automated tests.
- scriptless testing: for those who prefer a more visual approach, Katalon studio provides a scriptless mode where you can create test cases using a recorder and playback features
- scripting support: for advanced users, Katalon Studio supports testing across various web browser, including Chrome, firefox, Edge, Safari, and Internet Explorer

fourth

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	open katalon studio	launch the application	
Day - 2	create a new project	Go to file > new > project	
Day - 3	Choose project type	select the appropriate project type.	
Day - 4	provide project Details	Enter a project name, choose a location and select the testing	
Day - 5	start recording	click the record button	
Day - 6	Stop recording	click the stop button.	

WEEKLY REPORT

WEEK – 4 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

Project creation

- Launch katalon studio
- Go to file > New > project
- Choose the project type (Web, mobile, or Api)
- provide a project name and location
- Object repository:-
- Store Web elements (buttons, links, text fields) for reuse.
- Right-click on object repository and select New.
- provide a name and xpath or css selector for the element.
- Right click on test cases and select New.
- Drag and drop objects from the object repository into the test case Editor.
- Add actions to interact with the Elements.

ACTIVITY LOG FOR THE fifth WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person in-Charge Signature
Day – 1	Create Test cases	in Katalon studio go to the 'Tests' folder, right click	
Day - 2	Add Test Steps	on the test case editor, add steps by clicking the "+" icon	
Day – 3	Input Test Data	Input test data by clicking on the 'data Binding'	
Day – 4	parameterize Test steps	parameterize test steps by using variables and data	
Day – 5	Organize Test Cases	Organize test cases into folders tags and suits for better management	
Day – 6	Execute Test cases	Execute test cases individually or in bulk using test suits.	

WEEKLY REPORT

WEEK – 5 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report: Here is a Sample report on test case creation and management in katalon studio:

Test case creation and management Report introduction.

This report provides an overview of test case creation and management in Katalon studio. a comprehensive test automation tool. it highlights the key features, benefits and best practice for creating and managing test cases effectively

Test Case creation

Total test cases: 50

Test case by Type

UI Testing: 30

Api Testing: 15

Mobile Testing: 5

Test case complexity

Simple: 20

Medium: 15

Complex: 15

Sixth

ACTIVITY LOG FOR THE ~~FIRST~~ WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1	Test Analytics	visualize test results with charts and graphs to identify trends and patterns	
Day - 2	Test Coverage Analytics	evaluate test coverage to ensure adequate testing of critical functionality	
Day – 3	Defect Analysis	identify and track defects, including severity, status and assignment	
Day – 4	JIRA integration	integrate test results with JIRA for seamless defect tracking and project management	
Day – 5	CI/CD integration	integrate test results with CI/CD pipelines for automated testing deployment	
Day –6	Custom Reports	Create custom reports to meet specific project requirement	

WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report: Advanced test Automation with Katalon Studio is a Comprehensive approach to automating software testing using Katalon Studio's robust features and capabilities, it involves:

- Designing and implementing scalable and maintainable test automation frameworks
- leveraging Katalon Studio's advanced features such as Cross-browser testing, mobile testing, API testing, and data-driven testing
- Creating modular and reusable test scripts using Groovy & Java
- integrating Katalon Studio with CI/CD pipelines, JIRA and other tools for seamless testing and reporting
- utilizing best practices such as page object model, test data management and continuous integration
- Achieving high test coverage, reducing testing time and improving overall testing efficiency

ACTIVITY LOG FOR THE ~~FIRST~~ Seventh WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1	Test Design	Keep test cases simple and focused avoid complex test cases	
Day - 2	Test automation	Use page object Model : implement page object model in seperate	
Day – 3	Test data management	Use data profiles Use data to manage efficiently	
Day – 4	Test Execution	Run tests in parallel : Run tests in parallel to reduce time	
Day – 5	Maintenance and updates	Regularly review and update tests to ensure relevance and effectiveness	
Day – 6	Additional tips.	Use Katalon Studio built it features: use Katalon Studio	

WEEKLY REPORT

WEEK - 7 (From Dt _____ to Dt _____)

Objective of the Activity Done:

Detailed Report: Katalon Studio best practices and tips Report

Introduction

This report provides a comprehensive guide to best practices and tips for using Katalon Studio, a powerful test automation tool. By following these guidelines, teams can maximize the benefits of Katalon Studio and ensure effective test automation. Test design Best practices

1. Simple and focused test cases: Keep test cases simple and focused to ensure easy maintenance and execution.

2. Clear and descriptive names: Use clear and descriptive names for test cases, test suits, and test objects.

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

Core technical skills

- programming language
  python: A popular choice due to its readabi
  extensive libraries and versatality.
- Java :- Another widely used language especia
  in enterprise environments offering robust
  object - oriented features.
- Javascript: Essential for web automation
  testing using tools like selenium webdriver
  and puppeteer.
- Testing Automation frameworks:
- selenium webdriver: A popular open-source
  for automating web browsers across diffr
  platforms.
- Appium:- for automating mobile applicat
  on ios and Android.
- cypress:- A modern javascript framework
  for its simplicity and easy of use.
- playwright:- A relatively new framework t

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.)*

-Typical Work Environment:

- Collaborative: Automation testers often work closely with developers, manual testers, and others team members to ensure the quality of the Software.
- Technical: the Environment is typically technical, requiring a strong understanding of programming language, automation framework and testing methodologies.
- Fast-paced: the software development life is often rapid. and automation testers need to be able to adapt to changing requirements and deadlines.

problem-Solving:: A significant portion of t work involves identifying and resolving issues requiring strong analytical and problem so skills.

Detail-Oriented: Automation testers need to be meticulous in their work to ensure the tests are accurate and comprehensive

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. Stategic planning and vision:
- Defining test objectives and stategies:
Aligning automation efforts with overall proje
goals and ensuring they contribute to produ
quality.
- Creating and managing test plan:
Developing comprehensive test plans that outline t
scope, resource, and timelines.

2. Team leadership and management
- Building and motivating teams:
Assembling and leading high-perforing au
-mation test teams by providing guidance, m
ship, and fostering a collobrative environmen
- Assigning tasks and managing workload:-
Effectively distributing tasks among team mem
ased on their skills and ensuring efficien
workload management.

Technical Expertise.

understanding of automation tools and framewk

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.,)*

1. clear and concise Reporting :

- Structural Reports :- Organise test results into clear, well- structured reports . use headings, bullet points, and tables to Enhance readability.
- Highlight key findings :- Emphasize significant defects, test failures, and areas of concern.
- Use Visuals :- incorporate screenshots, diagrams & videos to illustrate issues and provide context.

2. Effective Stakeholder communication :-

- Regular updates : provide regular updates on test progress, including key milestones and challengers.
- Tailored communication :- customize your communication Style to Suit the audiance. Adjust technical jargon based on the listener's understanding.
- Active listening :- pay close attention to feedback and questions from Skateholders . Demon -strate understanding and address concerns promptly.

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

1. Active listening and effective communications:

- practise attentive listening: pay close attention to what others are saying, avoid interrupting and ask clarifying questions.
- communicate clearly and concisely:- Express my thoughts and ideas in a way that is easy to understand and avoids ambiguity.
- use appropriate language and terminology:- Tailor my communication style to the audience and use technical terms when necessary, but avoid jargon that might confuse others.
- provide constructive feedback:- offer helpful suggestions and criticisms in a respectful and supportive manner.

2. Team collobration and cooperation:-

- Build trust and rapport:- foster positive relationships with team members by being reliable honest, and supportive.
- Contribute actively and meaningfully:- Share my knowledge and expertise and participate fully in team discussions and decision making.

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. Artificial intelligence and machine learning:
   - Intelligent Test case Generation:- AI can analyze code and requirements to automatically generate test cases, reducing manual effort and improving test coverage.
   - Self-Healing Tests:- ML algorithms can identify and automatically fix test failures, minimizing maintanance overhead.
   - predictive Analytics:- AI can predict potential defects based on historical data, enabling proa-ctive testing and risk mitigation.
2. Low-code and Non-code Automation tools:-
   - Accessibility for Non-Technical users:- these tools allow testers with limited programming skills to create and execute automated tests.
   - Rapid test development:- they offer pre-built components and visual interfaces, accelerating test creation.
3. Reduced maintenence:- changes to the appli-cation can often be reflected in the test automation scripts automatically.