



SHORT-TERM INTERNSHIP



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Acknowledgements

I would sinerly like to thank Apsche for providing me with this short term intership which helped me to gain Practical experience and knowledge about software testing automation

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CHAPTER-1: Exculative Summary

* Learning Objectives:-

- Learn how to obtain clean IPROUN and transform automation testing.
- Learn how to appropriate test on the Katalon.
- Learned how to Perform test that explores in the Katalon studio as well as Scripts, results and code 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 sessions and project sessions.
- Selection of topic "Amazon" and gathering cleaning its related data in 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 Organization

- * "Smart internz" is a platform that offers virtual internship to the students. The platform goal is to prepare students for job and big. Establishing relations.
- * "Smart internz" is in mission to build technology communities in academic to encourage students towards innovation, they are trained of thousands of students.
- * "Smart internz" restrict access to interns, who are not restricted in APSCH. LMS. They want to maintain a respectful environment with everyone.
- * It employs many people and has a good performance in terms of market value.
- * Roles of employees are to assist and contribute to the team.
- * Smart internz main objective is to bridge existing gaps between prevailing and offers suitable skill development.
- * In a mission to build technology communities in academic to encourage students towards innovation and entrepreneurship.

CHAPTER - 3 : Internship Part.

Internship are valuable way to gain newfound knowledge. This internship is a university provided internship it is a paid internship with is structured and with a learning process. Registration / registering in APSHE Smart internz & enrolling for Smartbridge software testing automation i.e., live training sessions as per schedule. This is the main intense of the Smart & internz organization.

Skills:-

- * Automating testing and Preparation.
- * Testing results.
- * Creating visualization reports.
- * creating visualization demo.
- * web integration on Project.
- * Preparation of the final report.
- * Modifying test explores.
- * Submission of team Project.

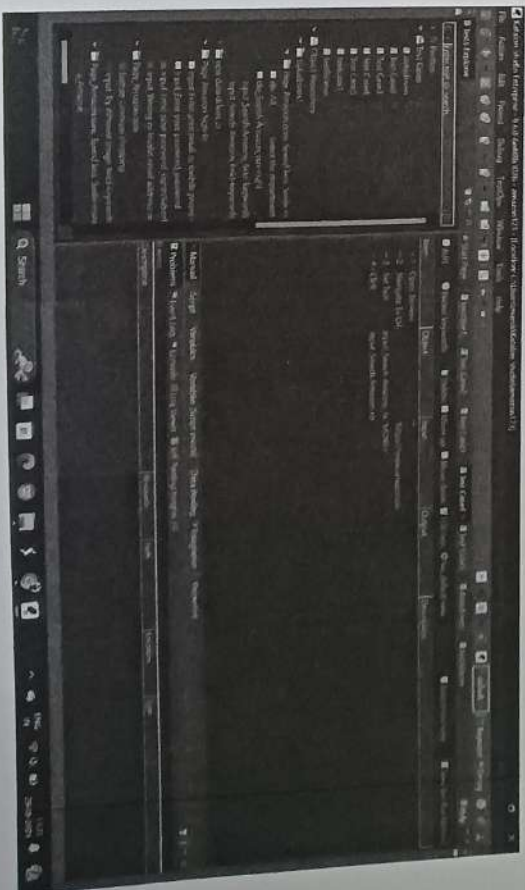
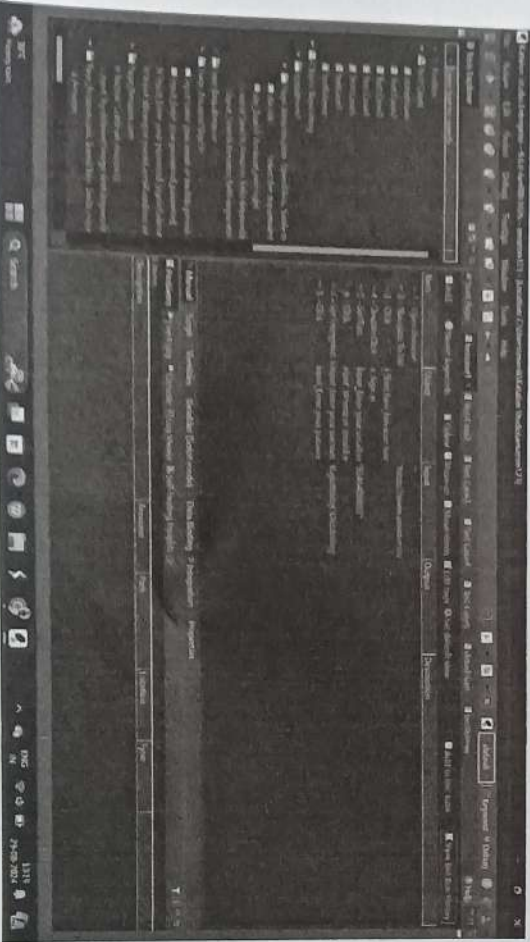
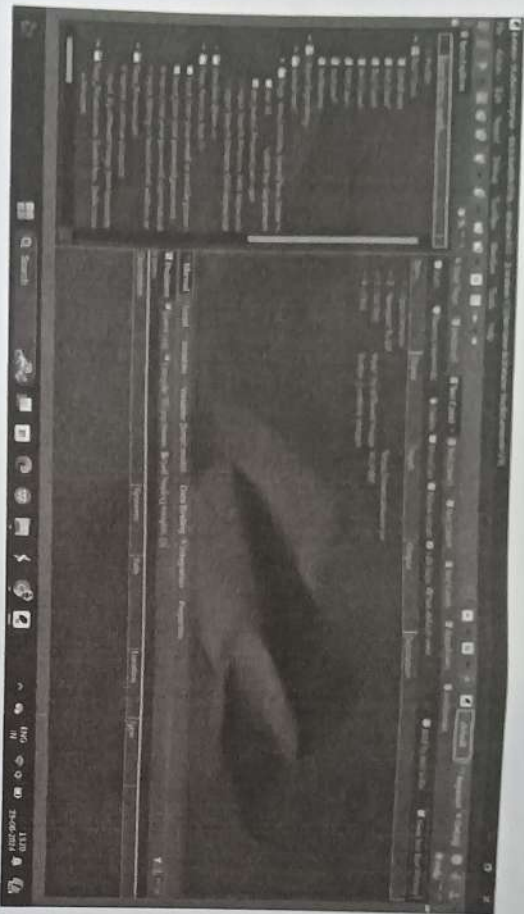
CHAPTER 6: OUTCOMES DESCRIPTION

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 :-

The internship at Smartbridge has been a transformative experience, equipping me with practical skills in the software automation and deep understanding of the Project on Amazon. The hands on experience and exposure to real world projects has not only sharpened my technical skills and project management skills. The work environment fostered a collaborative atmosphere with well defined protocols and structured procedures. The facilities were equipped with necessary tools for software automation testing. Team members exhibited mutual support and teamwork, contributing to a harmonious relationship. Overall the internship provided a comprehensive experience in software automation testing within a well-organised and supportive work environment.

PHOTOS & VIDEO LINKS



ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Creation of the story Report on student performance	Created katalon story on amazon.	
Day - 2	Assigned the process about the suits and listeners.	test suits and test listeners in the file.	
Day - 3	Discussed the video demonstration on the project.	Created video demonstration on the project	
Day - 4	Project report writing	Drafting the final report	
Day - 5	Discussed the uploading of the project in the get hub	Created the gethub links	
Day - 6	Project report finalization and conclusion.	Conclusion and submission of final report.	

WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report: Software development life cycle describes that the requirements, analysis and design. This is done in the black box and white box testing. They have described about maintenance which means after development the software enters the maintenance phase where it is updating and modifying to fix bug improves performance or add new features as required. Level of testing: unit testing, Integration testing, system testing, acceptance testing. These levels of testing says about individual components or function of the software isolation. This phase tests the interactions between integrated modules or components.

System test completes the integrated software system to verify that it meets the specified requirements. Conducted to determine if the software meets the business and about user. Acceptance testing. It follows systematically and improve the equality, reliability and effectiveness.

2nd
ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Explanation on the sanity testing	we have learned about the sanity testing	
Day - 2	Explained about formal testing	we have learned the multiple formal testing	
Day - 3	Steps for formal testing	we have learned about steps on formal testing	
Day - 4	Explained on software testing life cycle	we have learned STLC process	
Day - 5	Explained the test planning and activities	we learned the test planning and deliverable.	
Day - 6	Describe about the test plan IEEE format	we have learned the test plan format.	

WEEKLY REPORT

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

Objective of the Activity Done: Introduction on the formal testing

Detailed Report: Formal testing have multiple process and different activities. In this software testing life cycle which is a series of phases that guide the testing process, ensuring the delivery of high quality. This software testing life cycle have requirement analysis, test planning, test design, test execution, defect reporting. purpose on software testing life cycle which ensure a structured and systematic approach of testing.

→ Helps in identifying defects early in the development cycle. Provides a clear methodology for managing the testing process and improves and software quality. A test plan is detailed document that outlines the strategy, scope, resources, schedule and activities for testing.

Test criteria which have the software to be acceptable. This structure ensures that test plan is comprehensive and covers all necessary accepts.

3rd

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Explained about the Informal testing	we have learned about informal testing	
Day - 2	Describe about different types of Informal testing	we have learned different types	
Day - 3	Explained the types of performance testing	we have learned about performance testing	
Day - 4	Explained how to use Performance testing	we have learned about activity on performance testing	
Day - 5	explained about the spike and endurance testing	we have learned about the spike and endurance testing	
Day - 6	Discussed the question and answer on the Informal testing	we have learned about question and answers	

WEEKLY REPORT

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

Objective of the Activity Done:

About the Informal testing.

Detailed Report:

Informal testing refers to the testing activities that do not follow a structured formal testing process & gives the quick feedback and quickly identifies the software systems.

Performance testing is a critical aspects of software quality assurance that focus on evaluating how an application performs under various conditions. Load testing which assesses the application performance under expected load conditions. Gradually increase the load until the system fails or performance degrades significantly. Spike testing, which tests the applications reaction to sudden, extreme increases in load.

Performance testing is essential for ensuring that application can be handle expected and unexpected loads efficiently, maintaining user satisfaction and operational stability and accurate simulation of real world load conditions can be challenging.

4th.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Explained about user interface and non-functional testing	we have learned about non functional testing	
Day - 2	explained about monkey testing	we have learned about monkey testing	
Day - 3	Explained about the user test screen	we have learned about user screen testing	
Day - 4	Explained about the usability testing	we have learned about usability testing	
Day - 5	Explained about non functional testing	we have learned about functional testing	
Day - 6	Explained about the compatibility testing	we have learned the compatibility testing.	

WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

Our fourth week was about the concept of the non functional testing in software testing automation.

Day 1 review of non functional testing, keys and non functional aspects and their scalability and compatibility. Day 2 on the concept of the monkey testing which means the random approach to software testing by inputting random data or performing unpredictable actions. Day 3 about the concept of user screen testing also known as user interface this intended across various devices and scenarios. Day 4 we have learned the usability testing concepts which evaluate a product by testing it with representative users. Day 5 we have learnt that how functional testing user in software testing and validates where the application performs its functions as intended based on requirements. Day 6 we have learnt that compatibility testing and their uses and explained the queries.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Explained the introduction on the software testing and tools	We have learnt about the software and tools	
Day - 2	Explained the Globalizing & Localization testing	We have learnt about the globalizing testing	
Day - 3	Described about the Recovery testing	We have learnt about the globalizing testing	
Day - 4	Explained on the topic of test analysis	We have learned on the test analysis	
Day - 5	Explained about the graphical user interface tools	We have learnt about the GUI tools	
Day - 6	Explained about the SRS/FRS test design.	We have learnt the SRS/FRS	

WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

Our fifth week has discussed on the software testing and its tools and their uses.

Day 1: testing tools are designed to automate and facilitate various aspects of software testing. They have automation tools like selenium, appium etc.

Day 2: have discussed the globalizing and localization of testing which describes users to give culture or local and detects potential problems.

Day 3: recovery testing which assesses how well an application can recover from crashes or unexpected errors. It involves failures & interruption.

Day 4: discuss about the test analysis we learnt that identifying test analysis cases and ensuring that align with software specifications.

Day 5: GUI which is visual part of an application allows to interact through graphics elements like buttons icons ---

Day 6: we have learned that the test design involves creating test cases based on documented and functional criteria ---

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Explained about the Requirement & traceability matrix	We have learnt the RTM	
Day - 2	Discussed about the Software automation Project.	we have learnt about the Project	
Day - 3	Explained how to Create the test Cases.	We have started the test Cases	
Day - 4	Explained about the both test cases / Scenarios	we have learnt On the Scenarios	
Day - 5	Explained about the automation testing advantages & disadvantages	we have learnt on the advantages & disadvantages	
Day - 6	Brief explanation on the test execution.	We have learnt about Software test execution	

WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

Our sixth week they have discussed the requirements traceability matrix and detail about the Project.

Day 1: A requirement traceability matrix tracks each requirement through the testing process, ensuring all req are covered in it.

Day 2: They have discussed the software automation Project.

Day 3: They have discussed the test cases in the Katalon and explained the test scenarios in the excel sheet.

Day 4: The test cases and test scenarios are run in the Katalon they have verified the test cases id.

Day 5: We have learned the automation testing which increases test efficiency provide results supports extensive and donot have high initial setup cost, requires maintaince of test script

Day 6: They have discussed the test execution of the test cases and test scenarios in the Katalon.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Discussed on the Preparing test data	We have learnt the test data	
Day - 2	Discussed about the test description	We have learnt test description	
Day - 3	Explained the running of the test cases	We have seen the test cases	
Day - 4	Explained the Process of information of team members	Selection of team leads and team members	
Day - 5	Explained the different topics in the Project.	We understand about the topic of amazon	
Day - 6	Explained the concept of the total project	We have learnt the Project.	

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

Objective of the Activity Done:

Detailed Report:

The seventh week commenced with the formation and team leads and team members. We have learnt the test description outlines the objectives, scope and specifics of test case, including what will be tested the test conditions. The way we have run the test case and test case id. and they have formed a team and selection of topic by the team members and we have learnt total project on the topic which have explained in the Katalon. We have done the total processing of distributing the responsibilities of the project and assigning roles and tasks to every person in the team based on the individual strength, interest skills in software Automation testing on the amazon. The description have been created in the excel sheet and completed that preparing of excel sheets.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Fundamentals of software testing	we have learned about the SDLC	
Day - 2	Requirements of the software development life cycle	we have learned the requirements	
Day - 3	Levels of testing	we learned the level of testing	
Day - 4	System and acceptance testing	we have learned about the system testing	
Day - 5	About smoke testing and sanity testing	we have learned about smoke and sanity testing	
Day - 6	Explanation on the acceptance testing	we have learned about acceptance testing	

WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report: In the final week of our short-term internship program, we began working on the project on topic student. Each team member contributed and completed their assigned tasks. Ensuring the video that power point presentation and voiceover we have created github and created their own team collaborated in the github repository along with the google links for the videodemo in the both github and APSHE smart internz. video demonstration with voice giving insight into the project tasks / deliverable accomplished and computed successfully. Therefore ensuring the successful completion of the repository and created that the clone project in the katalon and have to upload in the github repository which illustrates the correlation between students academic performance. Finally we have concluded that the project and prepared the final report with our mentor for verification and submission.

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.,)

In software automation, Key technological developments include.

- AI and ML are being used to improve automation testing, and self-healing tests.
- Cloud-based Platforms are being used to provide scalable environments for automation testing.
- Robotics process Automation tools are being used to automate repetitive tasks and processes.
- Big data and Analytics are being used to improve test automation decision making and optimization.
- AI-Powered testing tools are being used to improve test automation efficiency and effectiveness.

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

Software automation Professionals to design, develop and maintain automated testing and deployment Process.

- 1) Proficiency in languages like Selenium, Appium, Test complete or Katalon
- 2) Expertise in frameworks like Selenium, Appium, Test complete or Katalon.
- 3) Understanding of API testing tools like Postman SoapUI and Rest Assured.
- 4) Knowledge of network protocols and architecture.
- 5) Ability to work effectively with teams.
- 6) Willingness to learn new tools and the technologies.
- 7) Ability to write efficient, readable and maintain scripts.
- 8) Experience with Jenkins, Travis CI, CircleCI or Github CI/CD.

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.

To improve communication skills in software automation.

- Practice writing clear, concise and readable documentation, test cases and reports.
- Lead or Participate in meetings with clear agendas, active listening
- Give and receive feedback, Using it as an opportunity to learn and grow.
- Learn to explain technical concepts to non-technical stakeholders
- Provide regular updates on automation Program, milestones and changes.
- Be approachable and available for questions, concerns and discussions
- Avoid using technical jargon when communicating with non holders.

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

- Ability to develop and implement automation strategies aligned with business goals.
- Leadership and management of automation teams, including resource allocation and task assignment.
- Effective communication with stakeholders, team members and customers.
- Identification and mitigation of risks associated with automation.
- Management of automation budgets, budgets and costs.
- Continuously improving automation process and workflow.
- Managing changes and ensuring smooth transitions.
- Allocating resources effectively for the automation projects.

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

To enhance the abilities in software automation teams.

- Pay attention to others ideas and opinions
- Express thoughts and ideas clearly and concisely.
- Engage in respectfully and constructive dialogue
- Communicate clearly and transparently with team members.
- Be adaptable and willing to adjust to changing Priorities
- Contribute to process improvements and suggestions
- Participate in testing and provide the constructive feedback.
- Address conflicts in a constructive and respectful manner.