

SHORT-TERMINTERNSHIP



Dr. LANKAPALLI BULLAYYA COLLEGE VISAKHAPATNAM

PROGRAM BOOK FOR SHORT-TERM INTERNSHIP

Name of the Student : G. chandana

Name of the College : Dr Lankapalli Bullayya College, Visakhapatnam

Registration Number : 722128805462

Period of Internship : 2 months

Name & Address of Intern Organization: Smoutinteanz

Name of the University: Andhra University

Year : 2024

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An Internship Report on

Software Automation testing
Submitted in accordance with the requirement for the degree of
Bisic Blotechnology
Under the Faculty Guideship of
sireesha mam
Department of
<u>chemistry</u>
Dr Lankapalli Bullayya College: Visakhapatnam
Submitted by
G:chandana
Reg. No.
722128805462

Dr. Lankapallí Bullayya College Vísakhapatnam-13

Submitted in accordance with the requirement for the degree of B.S.C. Biotechnology Under the Faculty Guideship of Sixeesha mam Department of Chemistry Or Lankapalli Bullayya College: Visakhapatnam Submitted by G. Chandana Reg. No.

Dr. Lankapallí Bullayya College Vísakhapatnam-13

Declaration

1 Gr.chandana	_ student of <u>SOFTWARE</u> automation
Program, Reg. No. 722 128805462 of th	ne Department of Biotechnology
College do hereby declare that I have comp	
Internship Under the Faculty Guideship of	
Department of chemistry	
Visakhapatnam.	

Signature of the student

Official Certification

This is to certify that	G. chandana
Reg. No. 722128805	
3rd year	on <u>Software automation</u> Testing
Under my supervision as parthe Degree of	rt of a partial fulfillment of the requirement for Biotechnology in Department of
Dr. Lankapalli Bullayya Colle	ge, Visakhapatnam.
This is accepted for evaluati	Signature with Date and seal
Endorsements	
Faculty Guide	
Head of the Department	
Principal	

Acknowledgements

The completion of this project will be incomplete without mentioning of few names. I take this opportunity to acknowledge the efforts of the many individuals who helped me to complete this project. I want to express my hearful greatitude to sireeshafor giving me the oppornity to do my internship project et smootheams. The superivision and support that he gave toly help the progression and smoothness of the internship programm. I would like to thank the mamatha for this support and guidance throughout the project study. The co-operation is much needed apprehicular.

finally 9 would like to thank my institute faculty of software automation, LBC FET making this experience of interinship programme. The learning from this experience has been immerse and would be chesished throughout sife.

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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.

ACTIVITY LOG FOR THE FIRST WEEK

Ce.

Day & Date	Brief description of the daily activity	Learning Outcome	Person In- Charge Signature
Day - 1	Introduction to software Testing	understand the fundamentals of sofware automation	*
Day - 2	Different types of sofwore testing	understand the objectives, appro- aches for each type of testing	
Day – 3	Impositance of Software development	Analyze the sole of testing in ens- -wing software Specifications	
Day - 4	Introduction to test outomation	Evalue the ben- efits of lest au -tomation in real would scenarios	
Day - 5	Advantages and disadvantages of lest automation	Automated tests possible dollar	
Day -6	when to automate tools	Identify scenarios where award or is beneficial.	

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

	Software testing is a critical process
in softw	are development aimed at
encusing	that software applications
function	as intended and meet used
nequirer	nente. 9t involves cystematically
evaluation	ng a software product to
identify	defects of issues.
DUMPOSE	. The main goals of softunce
testing	are to verify that the interioral
Functions.	, identify bugs and ensure
that the	software meets quality standow
de am	1 uses expectations.
Defect (nangement: 9 nvolves identifying)
xecoxdic	ng and managing defects 051
6,200	the softwage. This includes
	· Call Charle and
tolacking	they one resolved.
enswine) they will be

ACTIVITY LOG FOR THE FIRST 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 & its features	
Day - 2	features of katalon studio	create & manage a centralized repository of test objects	
Day -3	Installation and Setup of Katalon Studio	pownload and install Katalon Studio on windo	
Day - 4	creating a new project in katalon studio	understand the different project templates and Types	ct
Day – 5	using katalon studi	o Integrate kate on studio with cl/cd pipelines for API Testi	th
Day -6	using katalon studio for visual lesting, Al-augmented	To enhance vision to enhance vision testing, machine learn & computer vision	ing

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

Objective of the Activity Done: 9 ntonduction 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 proce
-cs through its user-friendly interface and
making it accessible for both experienced
testers and those new to automation.
Scaliptiess Testing: Users can careate
teste without waiting code using its
Decoold- and playback feature. This feature
- gre captures user interactions with the
application and generales corresponding
lest scripts.
SUPPOSIT FOR MULTIPLE PLATFORMS: St SUPPOSTS
web, mobile and API testing. This
allows useds to test applications
across various environments and th
devices 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	Adding test cases in katalon Studio	organize test Cases in test suits and folders	
Day - 2	in katalon Studio	understand the pumpose and benefits of test suits	
Day - 3	Running tests in katalon studio	configure test execution settings and peroperties	
Day - 4	Recoording and cre -ating test cases in katalon Studio	understand and utilize katalon studids recording modes	
Day – 5	exeating and maint -aining web test obi -ects using katalon	maintain & sefe -ctil test object fill optimal Performance	S
Day –6	organizing & managi ng katalon tests for Better Testing efficient	test result ar	

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

Objective of the Activity Page (Activity Page)
Objective of the Activity Done: Adding Test cases in studio
Adding test cases anvolves
open katalon studio: Launch katalon
Studio and open your existing project
or create a new one.
Coeate a new Test case:
-> Go to the test cases tab in the test
explorer panel on the left side of the
screen.
-> Right-click on the test cases and
Select New test case from the context
menu, and select test case
Name the test case:
A dialog book will perompt you to
Enter a name for the new test case.
provide a meaningful name that
posovide a microsity ox scenario
steflects the functionality or scenario
you we testing
-> click or to create the test case.

4th
ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In- Charge Signature
Day - 1	Pata-driven testing with Katalon studio	understand the concept of data driven testing & its benefits	4
Day - 2	key word-donven testing with katalor studio	create & manager keywoord libraries and test scripts	
Day – 3	creating custom keywoods in katalon Studio	Use katalon s -dids Apl to in -ract with test objects	nte
Day – 4	using katalon strong For cross-browser testing	browser les	ting
Day – 5	katalon Studio ext -sions and integri -Hon	custom ex	elop
Day –6	Integrating kataling studio with popular test management tools	The Hall	ation

studio
Objective of the Activity Done: Data Dolven test with Katalon
Detailed Report: In Katalon Studio, data-driven
testing involves using external data
Sounces like Excel files, CSV files, OJI data
bases to obvive your test cases
-> Enquie your data is organized
with headers in the first row, and
each you contains data for test case.
-> similar to excel, ensure the data
is organized with headers.
-> Go to the test data section in
katalon studio and click on New and
select test data.
-> choose excel as the data source
type after Browse and select the
Excel file. Define the sheet and
EXCEL HIE. DEFINE THE SOLIC TO 1000
specify the range of cells to use
in the data driven testing in the
katalon Studio.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome Person In Charge Signatur
Day - 1	Integrating Katalon Studio with other Version control Systems	understand how to use version control with team members
Day - 2	using katalon studion plugins to enhance functionally	enhance test automation
Day - 3	entegrating katalog Studio with Jenking or other ci/co tools	s result of pipells) s result of pipells) s automation
Day -4	katalon studio repositing and analysis	to generate and customize report
Day - 5	Test case excutions studios	n templated
Day -6	ovstamizing test reports in kata studio	to use scripts to add logic to reports

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

5 (1.00)
Objective of the Activity Done: Integrating katalon studio
Detailed Report: Integrating Katalon Studio Will
Version control systems like Git, SVN 00
others is coucial for conaborative develop
-ment and maintaining vession history
-> Ensure you have a Git repository
Set up on a platform like Gitlab OJ
Bitbucket.
-> Go to file 7 settings (windows) or
katalon Studio 7 preferences and 610 to
team 7 Git.
> of you age stagting from an existing
Git Kepasitory, use file 7 9mpost / Bit
- maierte from Git and Enter gour
aepository URL and follow the perompt
sepository
to clone the repository changes from
-> to pull the latest changes forom
the remote repository, use team 7
Pull.
P. C.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	he daily Learning Outcome	
Day – 1	executing test aut	onderstand how to create lest cases and lest suits	
Day - 2		pemonstrate un eastanding of testing proincip	
Day – 3	what is sofware automating tools	understand the how to create and execute automated to	
Day – 4	continuous integration and continuous Deployment	Automate testing and validation	
Day - 5	Automation F87 specific technologies	how to ident & resolve problems	tify
Day -6	and mochine learning in Automation	apply AI& I algorithms real world	ML to

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

Objective of the Activity Done: Developing and executing Lest
Detailed Report: 9t involves several key steps,
Forom designing your test cases to
sunning them and analyzing the results.
Define objectives: 9 dentify what you
need to test and why. This could include
Functional requirements, performance
expectations on other contenia.
choose Tools: select a test automation
tools that fits your needs (karalon studio
Selenion test). consider factors like
language support, integration capabiliti
es and eale of use.
coeate a test plan: outline what will
be automated, how it will be execut
-ed, and the resources required.
Define the scope, objectives and
contection for success.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity			
Day – 1	What is test automation frame Work design	Develop data- driven & keywow driven testing foame works		
Day - 2	Automation integral tion with ci/co Pipelines	understand the benefits & impli- otance in sof- cuare development	0	
Day – 3	-ch and Development-nt	maintain au		
Day – 4	About Scripting. Languages in soful -re automation	integrate sca ang language with cilco	ripti	
Day – 5	what is automate metrics and reporting	collect and metrics day	to L	
Day -6	Automation script Refoctoring	- understand optimize sc to improve performan	<u> </u>	

WEEK - \$ (From Dt...... to Dt.....)

objective of the Activity Done: Test automation, Frame work
Detailed Report: A Lest automation frame work
Jegin is a stouctured approach to
organizing and managing automated
lest scripts of parovides a systematic
may to execute, manage and maintain
tests, ensuring efficiency and consistency.
-> Test scripte are conitten in a linear,
Sequential manney, and simple to
implement and understand. Difficult to
maintain and scale as teste become
more compred.
-> Breaks tests into smaller, reusable
modules or components Encourages
Sieuse and easier maintanance. Require
Sieuse and easier francisco como mente.
correful design or resultie components.
you can built a stobust and
efficient automation framework of
your automated tests.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In- Charge Signature
Day - 1	What is Regression lesting	leasn how to identify the scope & object -ves	
Day - 2	Automation for specific technologies		i
Day - 3	Automation integration with other tools	for automati	on
Day – 4	What is Automated file management	to create form	es)
Day - 5	Automated mobile	now to iden and resolve problems	tify
Day -6	Automation of user registration	n vegrestation vegrestation vegrestation	m

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

Detailed Report: Regression testing is a type of the Activity Done: About regression testing is a type of Detailed Report: Regression testing is a type of that ensures that
Detailed Report: Regression as encugies that
that ensures that
trage have
contraces the changes man
new code enhances the changes have not adversely affected the existing not adversely affected the existing
not adversely the software of involv
not adversely affected the software of involve functionality of the software of the software of the software
es re-running the software
Leas to verify that the software upda still performs as expected after upda
Still performs as expected schancements,
101000000
to detect uninterliced the recent
gt is caucial to have a comprehen
91-15 Coucies to caver different
-sive suite of leste to cover different
of the software, appr
remains stable and functional.

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.)

- -> fast-paced and constantly evolving
- -> cologs Functional teams working together
- -) open communication and feedback encouraged.
- -> continuous learning and professional development.
- -> encouragement to experiment and innovate.
- -> emphasis on acheiving automation goals and metalcs.
- → supposit for coosk-life balance and well being.
- -> Diverse and inclusive teams.

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

software automation professionals to design, develop and maintain automated testing and deployment process.

- I) posoficiency in languages like python, Java, Java scenipt, Ruby.
- 2) expertise in frame works like selenium, Appium, test complete or katalon.
- 3) understanding of ApI testing tools like postman, soapul and Rest Assured.
- 4) knowledge of network priotocois and anchietecture.
- 5) Ability to work effectily with teams.
- e) willingness to leasin new tools and the technologies.
- Thantable scoupts
- e) experience with jenkins, Travisci, choclecion Gitlab 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.

- -> Ability to develop and implement automation strategies aligned with business goals.
- -> Leadership and management of automation teams, including resource autocation and task assignment.
- -> effective communication with stakeholders, team members and customers.
- -> 3 dentification and mitigation of risks associated with automation.
- -> management of automation budgets and costs.
- and workflows.
- -> managing changes and ensuring smooth toansitions.
- -> Allocating mesources effectively for the automation projects.

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 athers, 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 imposove communication skills in software automation.

- -) practice writing clear, consider and preadable documentation, test cases and steports.
- Lead on positicipale in meetings with clear agendas, active listening.
- an oppurationity to leasin and grow.
- non-technical stakeholders.
- -> parovide regular updates on automation parogress, milestones and changes.
- -> Be approachable and available for questions, concerns and discussions.
- -> Avoid using technical jargon when communicating with non holders.

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

to enhance the abilities in softwoode automation teams

- -> pay attention to others ideas and opinions.
- -> express thoughts and ideas cleanly and concisely.
- → engage in respectively and constructive dialogue.
- with team members.
- -> Be adaptable and willing to adjust to changing pollowities.
- -> contribute to process improvements and suggestions.
- -> participate in testing and prioride the constructive feedback.
- -> Address conflicts in a constructive and respectful manners.

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 software automation, key technological developments include.

- -> At and ML we being used to improve automation testing, and self-healing tests.
- -> cloud-based platforms one being used to provide scalable environments for automation testing.
- -> Robotics posocess Automation tools one being used to automate repetitive tasks and posocesses.
- -> Big para and Analytics are being used to improve test automation decision-making and optimization.
- -) Al-powered testing took one being used to improve test automation efficiency and effectiveness.

Student Self Evaluation of the Short-Term Internship

Student Name: G.chandana

Registration No: 722128505462

Term of Internship:

From: July 3 To: 8 weeks

Date of Evaluation:

Organization Name & Address: Dr. Lankapalli Bullayya college

Please rate your performance in the following areas:

Rating Scale:

Letter grade of CGPA calculation to be provided

		1	2	3	4	5
1	Oral communication	1	2	3	4	5
2	Written communication	1	2	3	4	5
3	Proactiveness	1	2	3	4	5
4	Interaction ability with community		2	3	4	5
5	Positive Attitude	1	2	3	4	5
6	Self-confidence	1	2	3	4	5
7	Ability to learn	T T	2	3	4	5
8	Work Plan and organization	1	2	3	4	5
9	Professionalism	1	2	3	4	5
10	Creativity	1	2	3	4	5
11	Quality of work done			3	4	5
12	Time Management	1	2	NAME OF TAXABLE PARTY.	4	5
	Understanding the Community	1	2	3		5
13	Achievement of Desired Outcomes	1	2	3	4	-
14	OVERALL PERFORMANCE	1	2	3	4	5
15	OVERALLICITION					

Date:

Gichandana Signature of the Student

Evaluation by the Supervisor of the Intern Organization

Student Name: Grehandana

Registration No: 722 128805462

Term of Internship:

From:

To: 8 WEEKS

Date of Evaluation: Organization Name & Address: Dr. Lankapalli Bullayya college

Name & Address of the Supervisor

with Mobile Number

Please rate the student's performance in the following areas:

Please note that your evaluation shall be done independent of the Student's self- evaluation

Rating Scale: 1 is lowest and 5 is highest rank

Rati	ng Scale: 1 is lowest and 3 is the	1	2	3	4	5
1	Oral communication	1	2	3	4	5
2	Written communication	1	2	3	4	5
3	Proactiveness	1	2	3	4	5
4	Interaction ability with community	1	2	3	4	5
5	Positive Attitude	1	2	3	4	5
6	Self-confidence	1	2	3	4	5
7	Ability to learn	1	2	3	4	5
8	Work Plan and organization	1	2	3	4	5
9	Professionalism	1	2	3	4	5
10	Creativity	1	2	3	4	5
11	Quality of work done	1	2	3	4	5
12	Time Management	1	2	3	4	5
13	Understanding the Community	1	2	3	4	5
14	Achievement of Desired Outcomes	1	2	3	4	5
15	OVERALL PERFORMANCE	1	4			

Date:

Signature of the Supervisor

MARKS STATEMENT (To be used by the Examiners) ASSESSMENT STATEMENT

Name of the Student: G. chandana Programme of Study: Software automating testing

Year of Study: 2024

Group: BISC Blotechnology Register No/H.T. No: 722128805462

Name of the College: Dr. Lankapalli Bullayya college

university: Andhra university.

Universi	Evaluation Criterion	Maximum Marks	Marks Awarded
SI.No		10	
1.	Activity Log	30	
2.	Internship Evaluation	10	
3.	Oral Presentation	50	
	GRAND TOTAL		

Date:

Signature of the Faculty Guide