

AXES Automation

A Project Report

Submitted By

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In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

In

Computer Engineering

Vishwakarma Government Engineering College, Ahmedabad-382424



Gujarat Technological University Ahmedabad-382424

April 2023



Vishwakarma Government Engineering College

Ahmedabad-382424

CERTIFICATE

This is to certify that Siddh Kanubhai Patel has successfully completed the internship along with project entitled **AXES Automation** from 23rd January 2023 to 24 April 2023 (under my supervision) in partial fulfilment for the degree of Bachelor of Engineering in Computer Engineering, at Vishwakarma Government Engineering College, 8th Semester, Gujarat Technological University, Ahmedabad during the academic year 2022-23.

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Head of Department
Associate Professor
Computer Engineering
Department

INTERNSHIP CERTIFICATE



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Date: 24 April 2023

To Whomsoever It May Concern

This is to certify that Siddh Patel is an intern in our organization since January 23, 2023 until present. He has worked on the "AXES Automation" project during his internship period in the organization.

During this period we found him punctual, hardworking and inquisitive.

This letter is issued on employee's request and the company is not responsible for any current or future liabilities.

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DECLARATION

I hereby declare that the project report submitted with the project entitled AXES Automation to Gujarat Technological University, at Vishwakarma Government Engineering College Ahmedabad, in partial fulfilment of the degree of Bachelor of Engineering in Computer Engineering, accurate record of original project work completed by me at Meditab, Ahmedabad, under the supervision of Internal Guide is Prof. Karan P. Bhatt and External Guide is Bhavik Tikudiya, and that no part of this report has been altered in any way.

Siddh Patel

(190170107111)

Name of Student

Sign of Student

ACKNOWLEDGMENT

I would sincerely like to thank **Mr. Rajesh Shah** (Automation Department Manager Meditab) for giving us this opportunity and guiding us through the entire training period. I would also like to thank **Mr. Bhavik Tikudiya** (Sr. Lead Automation Engineer | Meditab) for being a very good mentor and leader and always being so supportive and helpful. Even through their busy schedule, they have always come forward to help us.

We are highly indebted to Head of Department **Prof. Mansukh T. Savaliya** sir for his integral role in our journey of becoming capable Engineers and giving us the opportunity to work at Meditab.

We are highly indebted to **Prof. Karan P. Bhatt** sir of CE Department at Vishwakarma Government Engineering College, Ahmedabad for her support and guidance during the internship period.

I also feel a great sense of gratitude to all those who have helped me directly through the entire phase of training.

Siddh Kanubhai Patel

(190170107111)

ABSTRACT

By the development of this project, we will be able to test any website or desktop Application with the help of automated developed script by us. The script would be dynamic due to which it will be common for the entire client. From this project we will be able to perform various type of performance testing like Sanity Testing and Regression Testing

To work with technologies and tools such as TestNG, Maven, Selenium, UFT and other related concepts in order to develop automation scripts and enable thorough learning of the same.

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CHAPTER 1

OVERVIEW OF THE COMPANY

Meditab is **software solutions provider in the healthcare industry**. Our EHR platform, Intelligent Medical Software (IMS), brings together EHR, practice management, billing, and officemanagement into one, seamless system.



Figure 1.1 Company Logo

1.1 HISTORY

The Patel family founded Meditab in 1998., they were determined to create a system anda company that works with providers, instead of getting in the way.

1.2 DIFFERENT PRODUCTS

 FertilityEHR™ <small>INTELLIGENT MEDICAL SOFTWARE</small> <p>FertilityEHR provides a software solution that advances the healthcare delivery of Assisted Reproductive Technology clinics by integrating laboratory, clinical and administrative operations into a single platform.</p> <p>Learn More: fertilityehr.com</p>	 <p>DrCatalyst offers remote staffing services to medical practices and pharmacies. Their remote assistants handle front-office and back-office operations so that practices can focus on patient care.</p> <p>Learn More: drcatalyst.com</p>	 <p>MedVision addresses the business needs of payer organizations by providing QuickCap, a robust care coordination, benefit, and claim administration system that reduces workload, increases efficiency, and minimizes costs.</p> <p>Learn More: medvision-solutions.com</p>
 <p>MedSpecialized, Inc. is a software support company that provides outsourcing services to Meditab Software, Inc., MedVision, Website4MD, and CosmetiSuite.</p> <p>Learn More: medspecialized.com</p>	 <p>HonestAbeApps is a mobile application development company that builds innovative and intuitive applications for iOS, Android, IoT, and wearables.</p> <p>Learn More: honestabeapps.com</p>	 <p>DosePacker is a pharmacy technology company that manufactures the DosePacker, the first automatic, multi-dose dispensing robot in its class, designed to automate pharmacy operations and increase productivity.</p> <p>Learn More: dosepack.com Activate Windows</p>

Figure 1.2 Company Product

1.3 CAPACITY OF COMPANY

Currently our company holds over 500 to 1000 employees. But as company is growing rapidly its capacity is going higher and higher.

CHAPTER 2

INTRODUCTION

2.1 PROJECT OVERVIEW

Automation Development and Testing has made it possible to reduce the time and efforts for manual testing the specific website or application by creating an automated script and checking the performance so that for each new release we don't need to develop different script and have to spend same efforts to create and test the application and due to which customers and client can have a friendly and great experience for using the website.

2.2 PURPOSE OF PROJECT

The main objective of this project to increase the efficiency for testing the application with more depth with repetitive testing and creating a good image in front of the client by providing a user-friendly experience

2.3 SCOPE OF PROJECT

By the development of this project, we will be able to test any website or desktop Application with the help of automated developed script by us. The script would be dynamic due to which it will be common for the entire client.

From this project we will be able to perform various type of performance testing like Sanity Testing and Regression Testing

2.4 OBJECTIVE

Bad user experience and insufficient application testing are two of the most common causes of application failure. There are a number of reasons that can degrade the performance of your application in today's digital environment. If the program is not extensively tested or have not domain knowledge of testing, the worst-case scenario is a data breach!

Testing is diverse and encompasses a wide range of actions to verify that the Application under Test (AUT) works flawlessly under pressure, is secure, and can withstand the test of the market.

The aim is to develop a successful test automation plan that eliminates the errors that can occur during manual testing. A Test Automation framework allows teams to save time and money during the testing process. Most significantly, it makes the procedure reproducible, which aids in the verification of the application's functionality.

It also includes the reusability component, where the test automation framework may be utilized for any other testing project after being updated with new test cases.

2.5 TECHNOLOGY AND TOOLS

Programming language - Java

Tools - Eclipse IDE, Selenium WebDriver^[3], Maven Repositories, TestNGFramework^[4]

Java - Popular Object Oriented Language, huge community support and open source.

Eclipse IDE - IDE for easily maintaining the project structure and using its robust feature

Selenium WebDriver - Object Oriented API and is a W3C Recommendation. Used for automating the web application

Maven Repositories^[5] - For maintaining all the libraries to same version for everyone who are working on same project as a team.

TestNG^[4] - Automation Testing Framework used for creating and running test suites and you can also generate a report and have the statistics for passed and fail test suit

CHAPTER 3

PROJECT STRUCTURE AND MANAGEMENT

3.1 PROJECT PLANNING

3.1.1 Project Development approach

The different phases are

Initiation/First phase Testing Strategy

- Automation Feasibility/ Requirements gathering
- Manual Testing & Automated components
- Tools selection for automation (Like Selenium, UFT, Jenkins)

Testing Requirements for Project

- Unit Testing
- Functional Requirements
- All interfaces
- Security levels/ IT Security requirements
- Compatible platforms
- Critical transactions for performance testing^[2]
- Performance objectives
- Globalization requirements

- Estimation of efforts and price approval
- Scheduling sign off
- Organizing and developing project
- Project communication
- Workflow between Development & Testing teams

Knowledge Transfer & Test Plans Scenarios

- Demonstration of Application
- Domain Knowledge/ Training
- Shadow transfer
- Study of user and operations manuals
- Test plans and Test cases Scenarios

Environment/Platform Setup

- Hardware and Software resources set up
- Test suites creation
- Special requirements for global testing

Automation Script

- Architecture/ Designing workflow
- Automation Test workflows
- Identify reusable elements/ flow
- Create and test scripts for test plans

Performance Testing

- Critical transactions/ Worst case scenarios
- Scripting
- Environment/Platform setup
- Iterative test run/Re run

Execution/ Final Stage

- Execute test scripts or Testcases
- Logs, tracks and reports for pass and fail statement
- Improve/Update and increase automation

Continuous Improvement/ Maintenance

- Increase automation scripts
- Improve test scripts and testcases

3.1.2 Project Efforts and time, Cost estimation for project:

In this project, we will apply the COCOMO (Constructive Cost Estimation Model).

Based on the development complexity, software development projects can be divided into one of three categories: organic, semi-detached, or embedded. Application, utility, and system programs are represented by these three product categories.

Normally, Automation and Performance projects are considered to be applicationprograms.

LOC (Line of Code) and FP (Function Point)

Function points allow the measurement of software size in standard units,

Instead of counting the lines of code that make up a system, count the number of externals(inputs, outputs, inquiries, and interfaces) that make up the system.

Parameters	Count	*	Simple	Avg.	Complex	=	Total
No.of user Input	22	*	3	4	6	=	88.5
No. of user Output	5	*	4	5	7	=	25.0

No. of Inquires	3	*	3	4	6	=	12.0
No. of Files	8	*	7	10	15	=	80.0
External Interface	2	*	5	7	10	=	14.0

TABLE 3.1 Information for COMOCO Calculation

Question	0	1	2	3	4	5
1. Does the system require reliable backup and recovery?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Are data communications required?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
3. Are there distributed processing functions?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Is performance critical?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Will the system run in an existing, heavily utilized operational environment?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
6. Does the system require on-line data entry?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
7. Does the on-line data entry require the input transaction to be built over multiple screens or operations?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
8. Are the master file updated on-line?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. Are the inputs, outputs, files, or inquiries complex?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
10. Is the internal processing complex?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
11. In the code designed to be reusable?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
12. Are conversion and installation included in the design?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
13. Is the system designed for multiple installations in different organizations?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
14. Is the application designed to facilitate change and ease of use by the user?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Total						
58.00						

Fig 3.1 Question Dependent on the Project

The Function Points is: 269.37

Fig 3.2 Function Points Calculation

Programming Language	LOC/FP (average)	Select
Assembly Language	320	<input type="radio"/>
C	128	<input type="radio"/>
COBOL	105	<input type="radio"/>
Fortran	105	<input type="radio"/>
Pascal	90	<input type="radio"/>
Ada	70	<input type="radio"/>
Object-Oriented Languages	30	<input checked="" type="radio"/>
Fourth Generation Languages (4GLs)	20	<input type="radio"/>
Code Generators	15	<input type="radio"/>
Spreadsheets	6	<input type="radio"/>
Graphical Languages (icons)	4	<input type="radio"/>

LOC/FP: 8081.10

Software Project	a _b	b _b	c _b	d _b	Select
Organic	2.4	1.05	2.5	0.38	<input type="radio"/>
Semi-detached	3.0	1.12	2.5	0.35	<input type="radio"/>
Embedded	3.6	1.20	2.5	0.32	<input checked="" type="radio"/>

Effort (E) = a_b(KLOC)^{b_b} =

Duration (D) = c_b(E)^{d_b} =

Fig 3.3 LOC/FP Calculation

3.1.3 Roles and responsibilities:

Name – Siddh Patel

Responsibility: Feasibility study and Sanity Testing

Requirements Gathering and Analysis Designing

Coding Testing Documentation

3.2. Project scheduling and representation (Gantt chart/network chart):

- It is also known as Bar chart is used exclusively for scheduling purpose. It is a way to manage a project. It is used for scheduling appointments and organizing events for the venue in particular. Budget planning and resource planning. Gantt is a bar chart with each bar representing the function. Bars are drawn against the timeline. The length of time scheduled for work.

Task	Start Date	End Date
Introduction Session	23-Jan-23	30-Jan-23
Java Training	31-Jan-23	10-Feb-23
Sql training	10-Feb-23	12-Feb-23
Selenium Training	12-Feb-23	28-Feb-23
Planing	1-Mar-23	5-Mar-23
Development	6-Mar-23	15-Apr-23
Review and Enhancemennet	16-Apr-23	24-Apr-23

Gantt Chart Representation

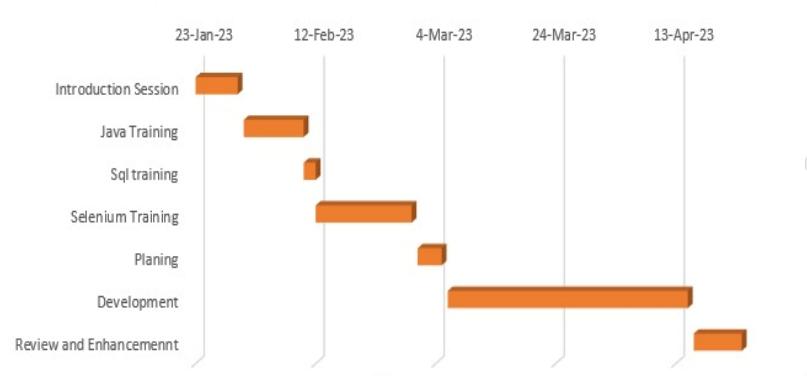


Fig 3.4 GANTT CHART

CHAPTER 4

PROJECT AND SYSTEM REQUIREMENT STUDY

4.1 USER CHARACTERISTICS

- Hardware developers: For Testing Functional Requirements of Hardware.
- Production Team: For Testing of final product.
- Sales Team: For demonstration of product to clients.
- Client: App after customization according to their requirements.

4.2 HARDWARE AND SOFTWARE REQUIREMENTS

Software Requirements:

- IDE which supports Java (Eclipse)
- JAVA
- Selenium^[3]
- TestNG Framework^[4]
- Maven Repositories^[5]

Hardware Requirements:

- RAM minimum 8 GB
- Processor frequency minimum 3.5 GHz

4.3 ASSUMPTIONS AND DEPENDENCIES FOR PROJECT

Assumptions:

- Other than the target application, no other applications are operating on the system.
- Auto lock utility is turned off on the target system

Dependencies:

- Reusable actions which are being called in main script.
- The function libraries having all the application related functions.
- Test input files for parameterization during execution.
- Result Log viewers for analysing the results.
- Configuration files for pre setup for the execution/ properties file for dynamic configuration

CHAPTER 5

SYSTEM/RESOURCE ANALYSIS

5.1 STUDY OF CURRENT SYSTEM/RESOURCE

- The tool/utility for automating the execution of performance and automation scripts is not yet ready, and the web application we're automating is still being developed.

5.2 CURRENT SYSTEM PROBLEMS AND WEAKNESS

- System is not capable of handling unexpected conditions like power cut or crashing.
- As the web application is currently under development, if something changes then it maybe possible that scenario is not handled properly
- Browser compatibility issue and web drivers issue due to session creation is possible.

5.3 REQUIREMENTS OF NEW SYSTEM

5.3.1 Functional requirements

Module 1: Better and robust recovery scenarios.

- This can help in gaining the confidence for successful execution.
- Any type of crashing or unexpected situations can be handled.
- Can continue the execution after handling such situations.
- Can reduce the failure rate.

Module 2: Better execution utility

- Can execute the scripts independently with 0 human interaction.
- Can give absolute counts of passed, failed and skipped scripts.
- Can give better options for creating the batches for execution.

- Better search filters to find the target script.

Module 3: Better logging mechanism

- Logs can be managed more precisely for analysis of execution.
- Can be able to notify about the reasons for failure.
- Logs can be stored in such a way that can be accessed from anywhere.

Module 4: Better Result Viewers

- Can be very useful for analyzing the overall execution of the scripts.
- Results can have more user-friendly GUI for easy understanding of the results.
- Can be accurate enough to analyze and find bug just from the results.

5.3.2 Non-functional requirements

- **Reliability:** The ability of a system or component to perform its needed functions for a set period of time under specified conditions.
- **Performance:** Like Response Time, Throughput, etc.
- **Scalability:** Capability of a system (horizontal, vertical scaling)
- **Usability:** Components should be totally reusable.

5.4 FEASIBILITY STUDY

5.4.1. Does the system contribute to the organization's overall goals?

- YES, system will help the organizations to reduce required human resources and generate more and more revenue by ensuring the products are working smooth in any environment.

5.4.2. Can the system be implemented using the current technology and within the given cost and schedule constraints?

- Yes, the system can be created with current technology and timeframes, however the cost is determined by the technology and manpower used to develop the target application.

5.4.3. Is it possible to integrate the system with other systems that are currently in place?

- Yes, the system can be integrated with other systems.

5.4 NEW SYSTEM FEATURES

- User can run automation or performance scripts even in the most adverse environment having a lot of crashing and unexpected situations.
- User can use the utility developed to automate the execution of the automation and performance scripts in batches.
- The system will be capable of having the logs of every situation so the user can easily study the logs and can analyze the results.
- The results will be more accurate and user friendly so the user can analyze the results more efficiently.

5.5 FUNCTIONS OF SYSTEM

- Admin can assign task to the employee for the project added by the admin. Admin can add new employee user also. Admin can see all the task assigned to the employee and see the status. Admin can update profile also.
- Employee can see the task assigned by admin or other assigned by other employee as well. Employee can update profile also. Employee can see the tasks assigned to him/her and tasks which he/she assigned to other employee and its status as well.

5.6 ACTIVITY DIAGRAM

Automation Testing:

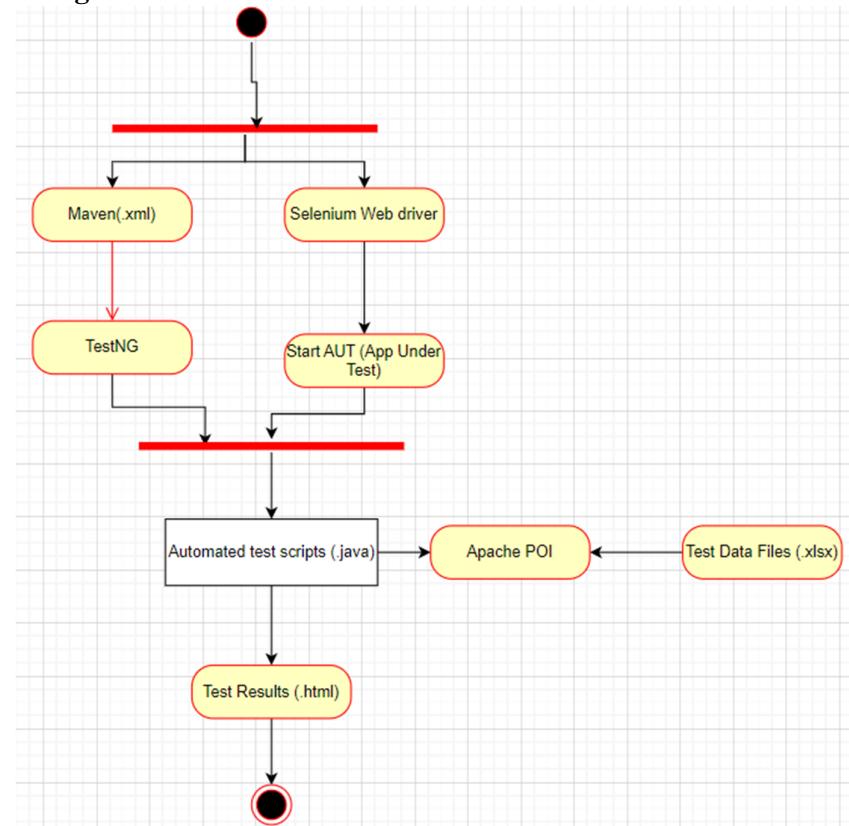


Fig. 5.1 Activity Diagram for Automation Testing

5.7 USE CASE DIAGRAM

AXES Portal:

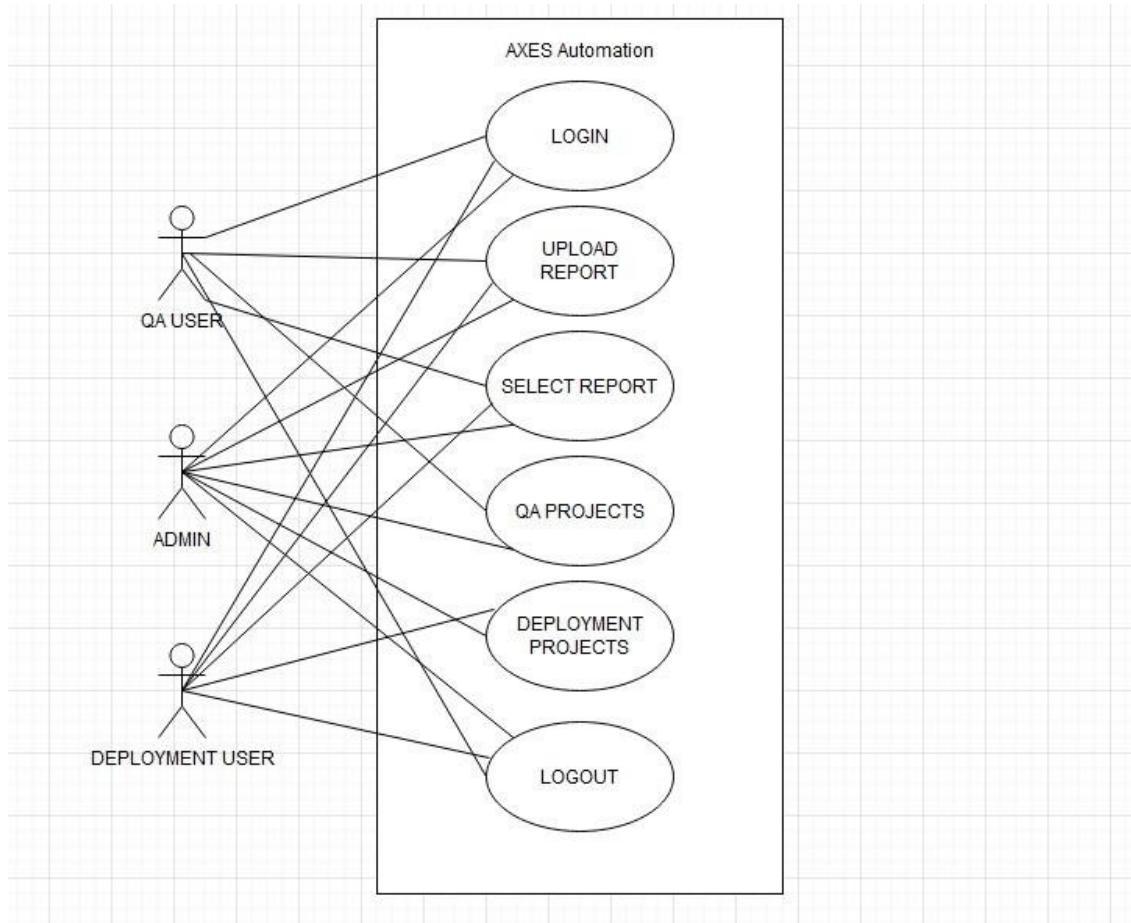


Fig. 5.2 Use Case Diagram for AXES Automation Portal

Framework for Automation Testing:-

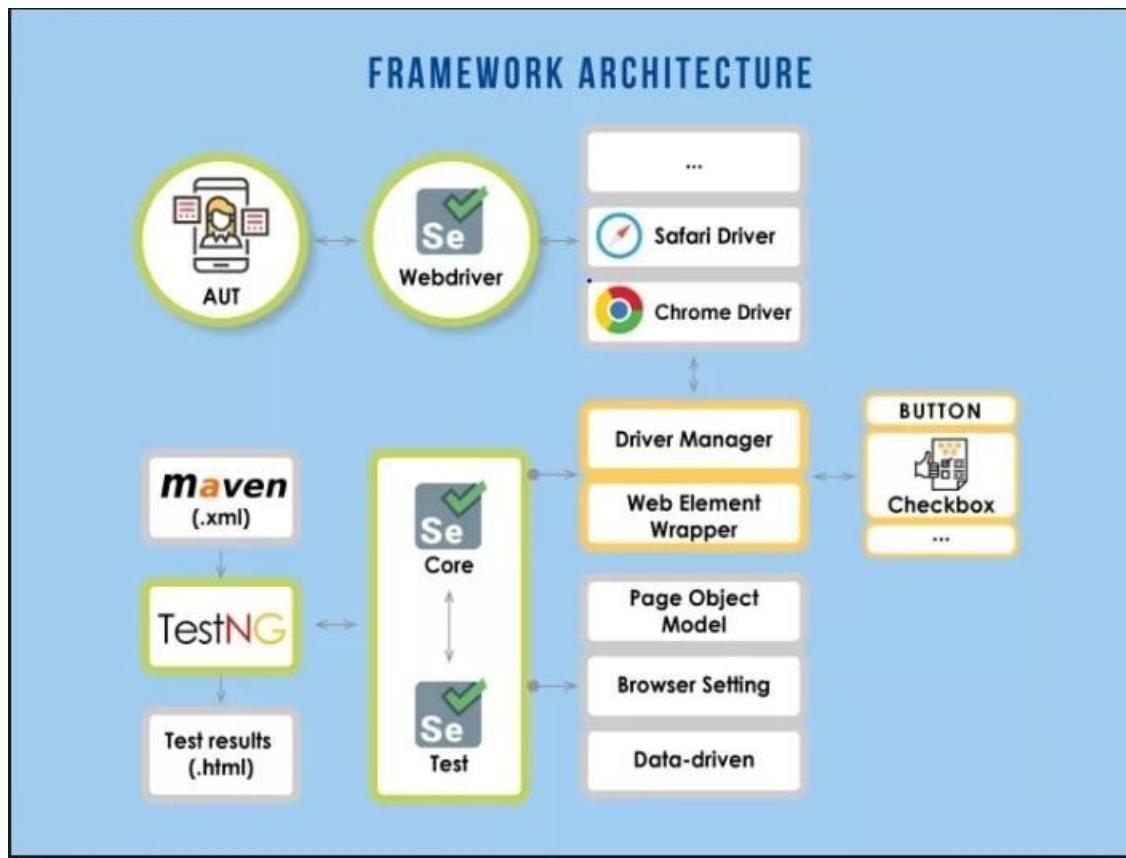


Fig. 5.3 Framework for Automation Testing^[6]

5.8 SEQUENCE DIAGRAM

Automation Testing:

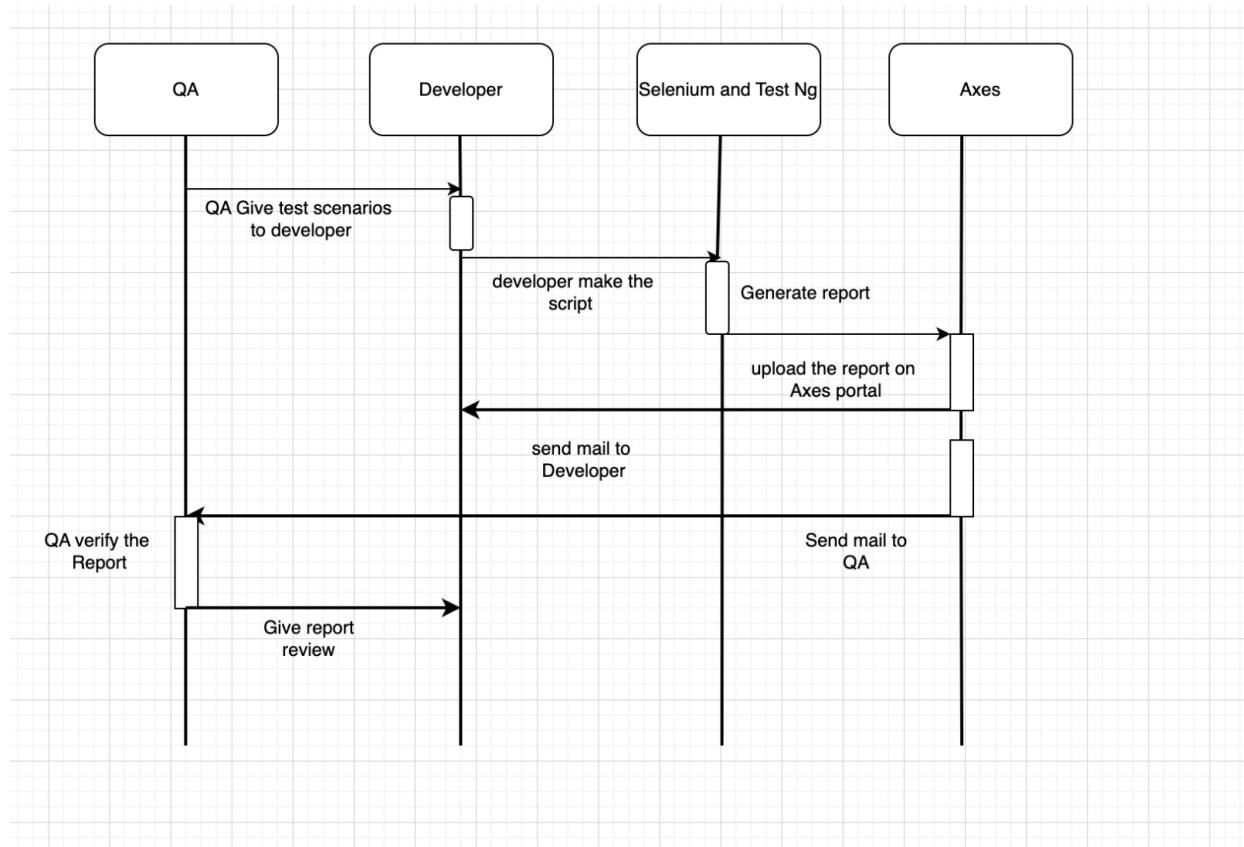


Fig. 5.4 Sequence Diagram for Automation Testing

CHAPTER 6

AXES DESIGN

6.1 LOGIN PAGE AND INTERFACE DESIGN

6.1.1 SAMPLES OF LOGIN PAGE, REPORTS AND INTERFACE OF AXES PORTAL

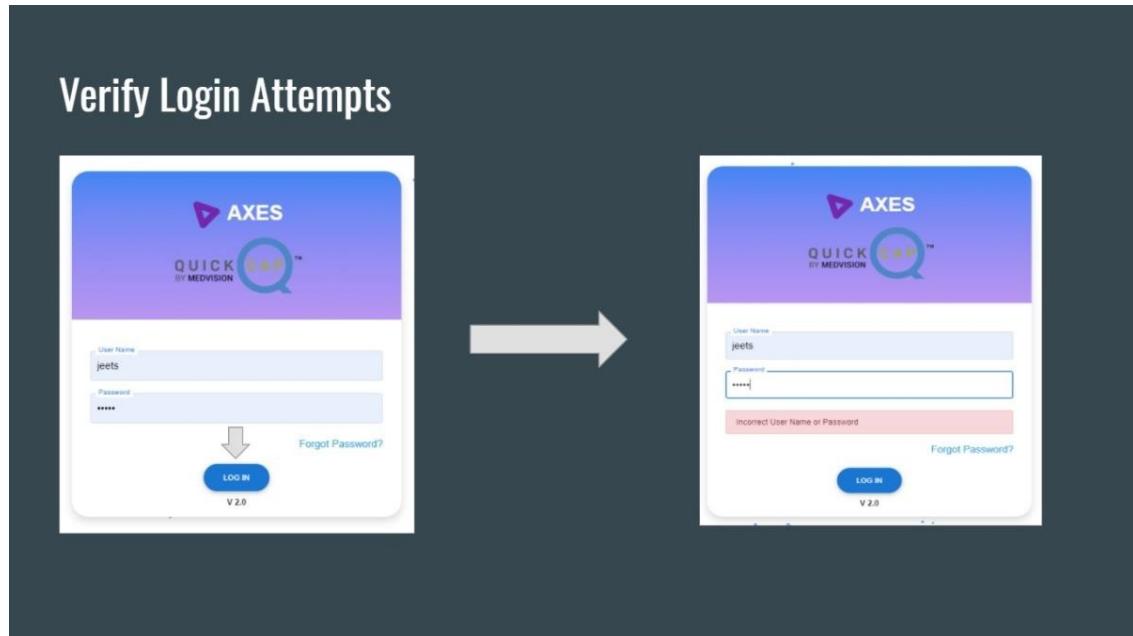


Fig 6.1 Login Attempts

Add user name and wrong password and click on login and verify user is able to login or not.

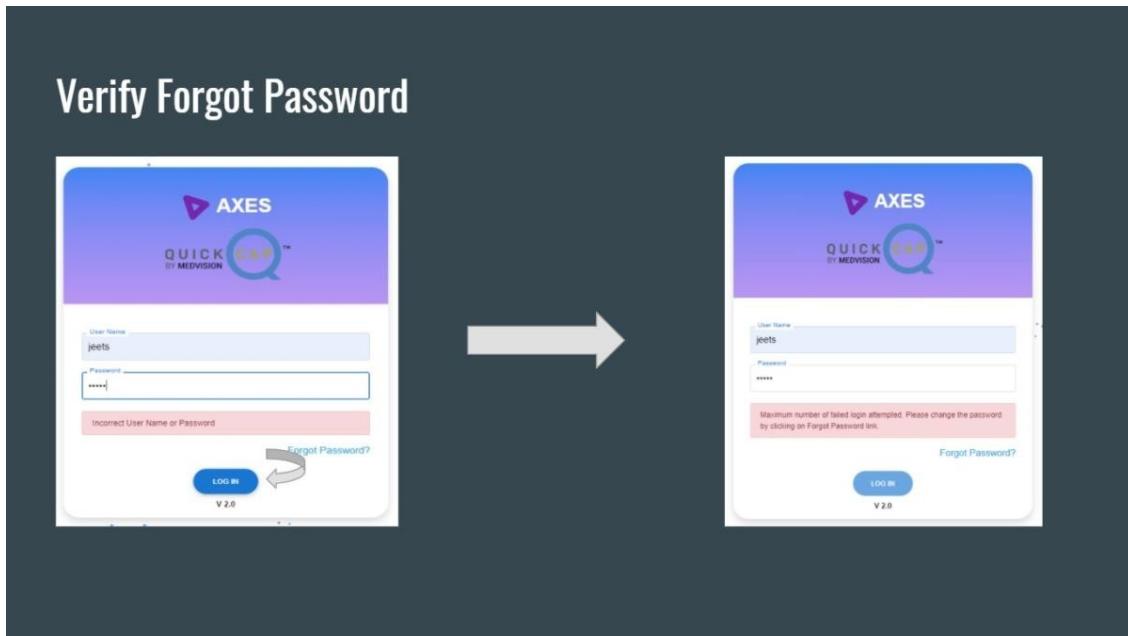


Fig 6.2 Verify Forgot Password

Enter wrong password for three time and wait for forgot password is shown or not

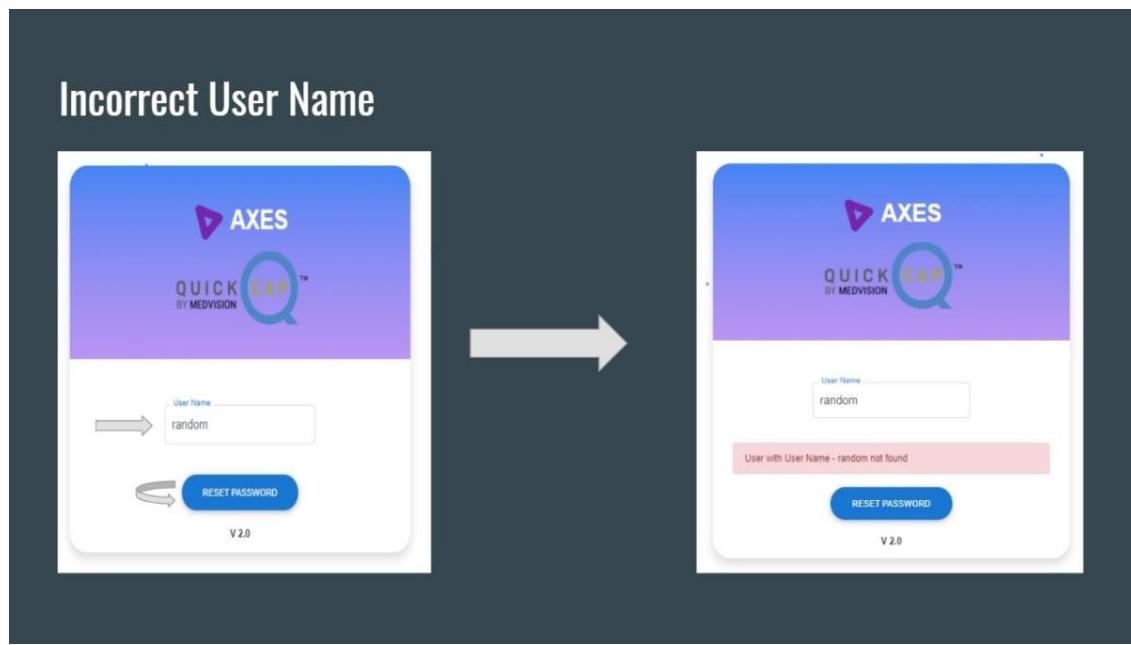


Fig 6.3 Verify incorrect credentials

Click on forgot password and enter wrong user name and verify user authentication.

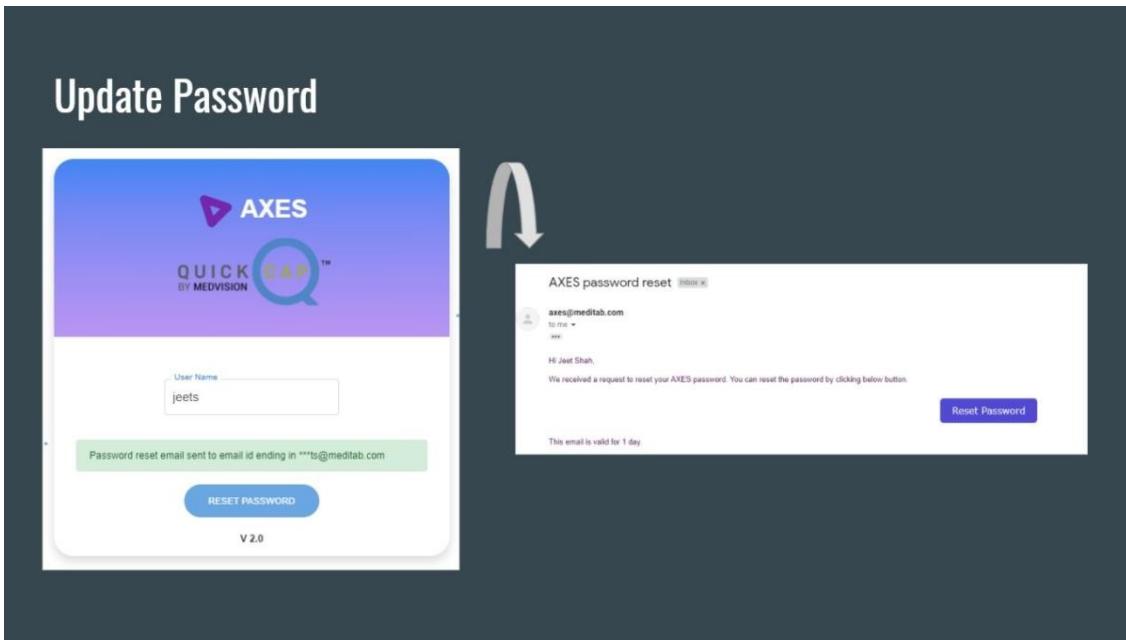


Fig 6.4 Update Password

Enter correct username and click on reset password and verify the pop up displayed or not.

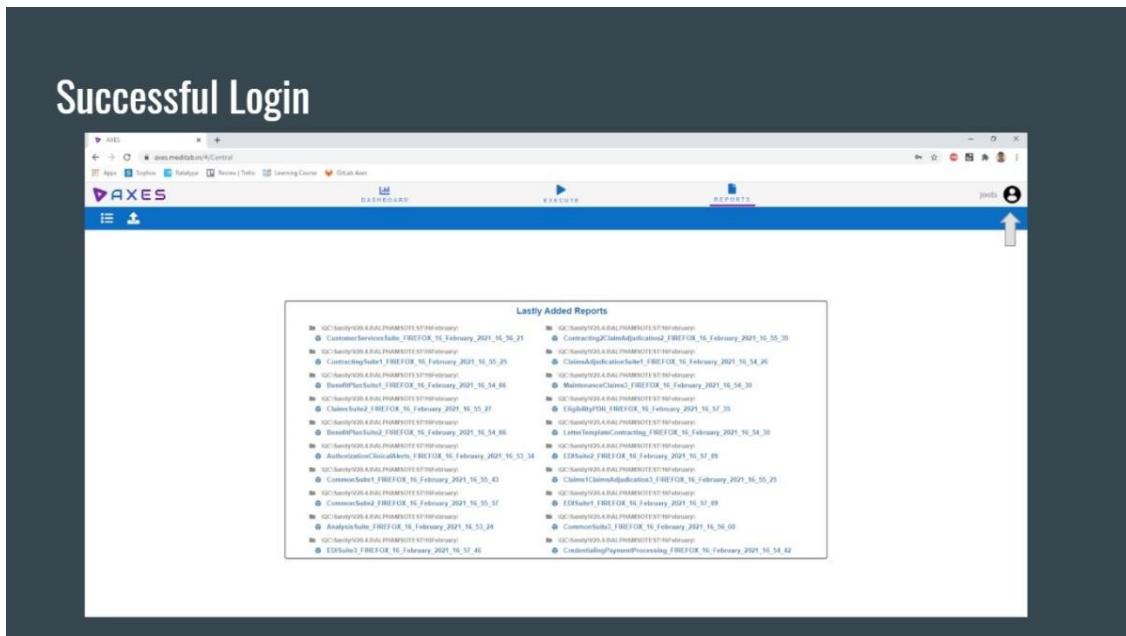


Fig 6.5 Home Page on successful login

Enter correct username and password then click on login button and verify home screen is displayed or not.

CHAPTER 7

IMPLEMENTATION PLANNING

7.1 IMPLEMENTATION ENVIRONMENT

❖ For Automation Testing

- Automation Testing an Utility GUI is needed which is actually automated on the automation script testing due to which multiple script can be run together and avoid wasting of time
- Depending on the Database size of the client we need to setup the environment due to which we can replicate client scenarios
- Also for automation we need to have at least a system which contains a high configuration RAM, Size , Processor as the Browsers may consume more memory
- Also whenever the execution of the system is going on we cannot use that machine so to avoid time waste we need to have an extra machine for Script Development

7.2 PROGRAM/MODULES SPECIFICATION

❖ For Automation Testing

- In this project I have created Automation script on majority of modules of the portal

7.3 CODING STANDARDS

- Use the Naming Convention like Camel Case
- Keep functions small
- Write code only for the current requirements
- Use function as much as possible

CHAPTER 8

TESTING

8.1 TESTING PLAN

For Automation Testing: -

- Automation tools required
- Framework and its characteristics
- Automation that are both in-scope and out-of-scope
- Preparation of an automation test suite
- Scripting and execution schedules and timelines
- Automation Testing Deliverables

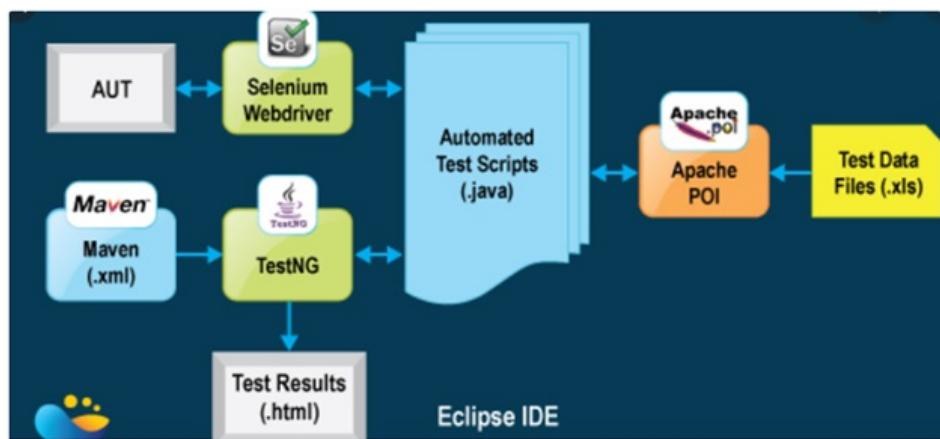


Figure 8.1 Automation testing flow chart^[6]

For Performance Testing^[1]: -

- When 1000 users access the website at the same time, make sure the response time is less than 4 seconds.
- When network connectivity is slow, verify that the Application Under Load's response time is within an acceptable range.
- Before the application crashes, check the maximum number of users it can manage.
- Verify database execution time when 500 records are read/written simultaneously.

- Verify CPU utilization and memory usage of the application and the database server under peak load conditions for performance
- Check the application's reaction time under low, medium, moderate, and heavy load circumstances

8.2 TESTING STRATEGY

For Automation Testing:-

- Tests that are repeated for numerous builds.
- Tests that are prone/cause to human error.
- Tests that are requires for multiple data sets.
- This is a frequently used feature that introduces high-risk situations.
- Tests that are impossible to perform manually by testing.
- Tests that are performed on a variety of hardware and software platforms and configurations.
- When manual testing, tests that involve a lot of time and effort.

CHAPTER 9

CONCLUSION

9.1 PROBLEM ENCOUNTERED AND POSSIBLE SOLUTIONS

For Performance testing^[1]: -

While Generating the Result of the application we have observed that due to use of long and sub query in the development of the product the performance of the systems gets harm and decrease and make it to negligible amount we have suggested the developer team that this query of database is affecting to the system make it simple using join operation.

For Automation Testing: -

We have observed that while developing the script we have observed that some functionality of system remains for all module or sub module So we were writing the repetitive code for all module instead of that we have suggested that why don't we create the function for these and avoid the repetitive use of the code and call thisfunction at that place

Also, another problem is that for execution of entire module we don't have any mechanism to execute the script so we have suggested to the .net Developer to develop and utility which can help the automation team as well as QA Team to have a such functionality that can import all the script and execute all the script and store the result at one place

9.2 SUMMARY OF PROJECT WORK

Through the medium of performance testing project, we arrive at the conclusion that to develop the good website/application we have to maintain satisfy benchmark standards. We have to check how the application works under more no. of users for long duration without maintaining website. If suddenly more no of users come than how it reacts. Because it affects company value in market.

Because of handling more no of user in single time and fast results Google ruled on market. If we want our place in market than we have to maintain this all things. Because of performance testing most probably company doesn't have complaints about slowness issue. Performance built company's market value.

Through the medium of automation project, we arrive at the conclusion that to if your application is complex and have quick enhancement in short time, then before launching in market you have to check old functionality also. There may be bug occurs in old functionality Because of new enhancement. We cannot check whole functionality in short time, if we can then also it may be possible that human errors there.

We can use automation to overcome this problem. Because it Reduce cost, increase time economy, large coverage of testing, increase productivity, eliminating human errors, reduce repetition .

CHAPTER 10

LIMITATIONS AND FUTURE ENHANCEMENT

10.1 LIMITATIONS

- Many people who has less understanding of automation attempt to automate everything. However, due to time and financial constraints, it is not possible to do so.
- Wherever there is a change in the user interface, most scripts require code updates, which needs ongoing maintenance.
- Testing software does not have the same level of intelligence as humans. They only have extremely little programmed intelligence.

10.2 FUTURE ENHANCEMENT

- We are developing our utility that can generate testing automation scripts automatically. We only must develop components. QA Enters the flow of test case and it will create script.

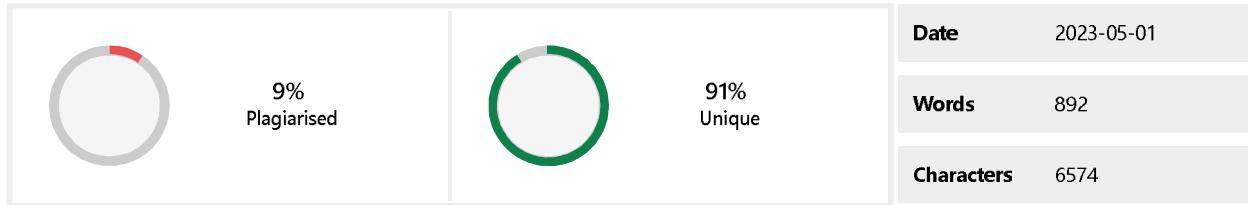
CHAPTER 11

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<https://mvnrepository.com/>
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PLAGIARISM SCAN REPORT



Content Checked For Plagiarism

Automation Development and Testing has made it possible to reduce the time and efforts for manual testing the specific website or application by creating an automated script and checking the performance so that for each new release we don't need to develop different script and have to spend same efforts to create and test the application and due to which customers and client can have a friendly and great experience for using the website.

The

main objective of this project to increase the efficiency for testing the application with more depth with repetitive testing and creating a good image in front of the client by providing a user-friendly experience

By the

development of this project, we will be able to test any website or desktop Application with the help of automated developed script by us. The script would be dynamic due to which it will be common for the entire client.

From

this project we will be able to perform various type of performance testing like Sanity Testing and Regression Testing

Bad user experience and

insufficient application testing are two of the most common causes of application failure. There are a number of reasons that can degrade the performance of your application in today's digital environment. If the programme is not extensively tested or have not domain knowledge of testing, the worst-case scenario is a data breach! Testing is diverse and encompasses a wide range of actions to verify that the Application under Test (AUT) works flawlessly under pressure, is secure, and can withstand the rigours of the market.

The aim is to develop a successful test automation plan that eliminates the errors that can occur during manual testing. A Test Automation framework allows teams to save time and money during the testing process. Most significantly, it makes the procedure reproducible, which aids in the verification of the application's functionality.

It also includes

the reusability component, where the test automation framework may be utilized for any other testing project after being updated with new test cases.

In this project, we will apply the COCOMO (Constructive Cost Estimation Model).

Based on the development complexity, software development



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Annexure 1

Enrollment no:
190170107111

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: PATEL SIDDH KANUBHAI

DIARY OF THE WEEK: Dt: 23-01-2023 TO 29-01-2023

DEPARTMENT: COMPUTER ENGINEERING SEM: 8

NAME OF THE ORGANISATION: MEDITAB SOFTWARE PVT. LTD.

NAME OF THE PLANT/SECTION/DEPARTMENT: AUTOMATION TEAM

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: BHAVIK TIKUDIYA

DESCRIPTION OF THE WORK DONE IN BRIEF

- This week, the Company gave introduction.
- In this, they gave us all details about the company like the company's portal, security policies, product about US healthcare system, touch typing, etc.
- After these days my training started with basic SQL and I completed an assignment related to that.
- Basic SQL:
 - Schema,
 - Clauses,
 - Constraints,
 - Joins,
 - Functional and procedures, etc.



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TOTAL HOURS: ----- 38 -----

GKPJel
SIGNATURE OF STUDENT

- ⦿ The above entries are correct and the grading of work done by Trainee is
EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

(Signature)
Signature of Faculty Mentor

(Signature)
Signature of officer-in-charge
of Dept. / Section / Plant

Date: 30-01-2023

Date: 30-01-2023

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his Punctuality, Regularity, Sincerity, Interest taken, Work done etc.



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Annexure 1

Enrollment no:
190170107111

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: PATEL SIDDH KANUBHAI

DIARY OF THE WEEK: Dt: 30-01-2023 TO 05-02-2023

DEPARTMENT: COMPUTER ENGINEERING SEM: 8

NAME OF THE ORGANISATION: MEDITAB SOFTWARE PVT. LTD.

NAME OF THE PLANT/SECTION/DEPARTMENT: AUTOMATION TEAM

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: BHAVIK TIKUDIYA

DESCRIPTION OF THE WORK DONE IN BRIEF

- This week, my java training was completed with assignments. And the IDE used is Eclipse.
- Topics that are related to java that I learned in this training:

- | | |
|-------------------|---------------------|
| ○ Datatype | ○ Arrays |
| ○ Loop | ○ Strings |
| ○ keywords | ○ Function |
| ○ Operators | ○ Searching |
| ○ Decision making | ○ Sorting |
| ○ Debugging | ○ Inbuilt functions |

- Object-oriented programming concepts:

- | | |
|-----------------------|-----------------|
| ○ Class | ○ Encapsulation |
| ○ Objects | ○ Inheritance |
| ○ Constructor | ○ Super |
| ○ Static | ○ Polymorphism |
| ○ Final | ○ Abstraction |
| ○ This | ○ Interface |
| ○ Error and Exception | |

Introduction to collection API



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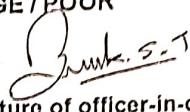
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TOTAL HOURS: 58

Skipper
SIGNATURE OF STUDENT

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EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR


Signature of Faculty Mentor


Signature of officer-in-charge
of Dept. / Section / Plant

Date: 06-02-2023

Date: 06-02-2023

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his Punctuality, Regularity, Sincerity, Interest taken, Work done etc.



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Annexure I

Enrollment no:
190170107111

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: PATEL SIDDHI KANUBHAI

DIARY OF THE WEEK: Dt: 06-02-2023 TO 12-02-2023

DEPARTMENT: COMPUTER ENGINEERING SEM: 8

NAME OF THE ORGANISATION: MEDITAB SOFTWARE PVT LTD.

NAME OF THE PLANT/SECTION/DEPARTMENT: AUTOMATION TEAM

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: BHAVIK TIKUDIYA

DESCRIPTION OF THE WORK DONE IN BRIEF

- This week, On the first day, the session is based on git, which covers basic commands related to git like
 - git clone
 - git commit
 - git push
 - git pull
 - git add
 - git status
 - git checkout
 - git reset
- On the second day, the session is based on markdown and regular expression.
- Markdown is a lightweight markup language that converts plaintext to HTML language.
- On the third day, the session is based on HTML, CSS, and JavaScript DOM.
- And the next part is all about Selenium tool suits. It automates the browser. Selenium IDE is based on the chrome extension. It executes the selenium commands to automate the browser. To identify the element in browser, locators are used which is most important part of the selenium.
- I completed assignments based on that.



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TOTAL HOURS: ----- 48 -----

GK Patel
SIGNATURE OF STUDENT

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Signature of Faculty Mentor

Signature of officer-in-charge
of Dept. / Section / Plant

Date: 13 - 02 - 2023

Date: 13-02-2023

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Annexure 1

Enrollment no:
190170107111

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: PATEL SIDDH KANUBHAI

DIARY OF THE WEEK: Dt: 13-02-2023 TO 19-02-2023

DEPARTMENT: COMPUTER ENGINEERING SEM: 8

NAME OF THE ORGANISATION: MEDITAB SOFTWARE PVT. LTD.

NAME OF THE PLANT/SECTION/DEPARTMENT: AUTOMATION TEAM

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: BHAVIK TIKUDIYA

DESCRIPTION OF THE WORK DONE IN BRIEF

- This week, selenium web driver training started which is based on java concepts and coding.
- For that first, we need to set up the chrome driver to launch chrome.
- After that selenium web driver concepts:
 - Different strategies for locators
 - Automating textboxes, text areas, buttons, dropdown, radio buttons, checkboxes
 - Checking element states
 - API for mouse and keyboard events
 - capturing screenshots
 - maximize the browser window
 - Types of waits
 - Handle different window
- The next part was TestNG (Test Next Generation) framework to handle multiple flows at one time. Difference annotations are used for that.
- Another build tool is Maven which is a project management tool.
- I completed assignments based on that.



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TOTAL HOURS: 50

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SIGNATURE OF STUDENT

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Signature of Faculty Mentor

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Signature of officer-in-charge
of Dept. / Section / Plant

Date: ૨૦ - ૦૨ - ૨૦૨૩

Date: 20-02-2023

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Annexure I

Enrollment no:
190170107111

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: PATEL SIDDHI KANUBHAI

DIARY OF THE WEEK: Dt: 20-02-2023 TO 26-02-2023

DEPARTMENT: COMPUTER ENGINEERING SEM: 8

NAME OF THE ORGANISATION: MEDITAB SOFTWARE PVT. LTD.

NAME OF THE PLANT/SECTION/DEPARTMENT: AUTOMATION TEAM

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: BHAVIK TIKUDIYA

DESCRIPTION OF THE WORK DONE IN BRIEF

- This week, the training is on the Selenium framework.
- The concepts:
 - Framework Architecture
 - Page Object Model
 - Reporting
 - Logs
 - Data Management
 - Common Actions
- I completed assignments based on that.
- And finally, on 23-02-2023, my project started. In this project, I have to create four flows.



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TOTAL HOURS: 52

SK Patel
SIGNATURE OF STUDENT

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EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

Signature of Faculty Mentor

Signature of officer-in-charge
of Dept. / Section / Plant

Date: ૨૭ - ૦૨ - ૨૦૨૩

Date: 27-02-2023

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Annexure 1

Enrollment no:
190170107111

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: **PATEL SIDDHI KANUBHAI**

DIARY OF THE WEEK: Dt: **27-02-2023** TO **5-03-2023**

DEPARTMENT: **COMPUTER ENGINEERING** SEM: **8**

NAME OF THE ORGANISATION: **MEDITAB SOFTWARE PVT. LTD.**

NAME OF THE PLANT/SECTION/DEPARTMENT: **AUTOMATION TEAM**

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: **BHAVIK TIKUDIYA**

DESCRIPTION OF THE WORK DONE IN BRIEF

This week, I did one scenario based on refer candidate module.
I have written a script to pass all the test scenarios given to me for the automated
refer
candidate module.

Scenarios:

- o Check login module
- o Navigate to the refer candidate module
- o Check add-referral module
- o Check validation of empty fields
- o Check already referred candidates
- o Search candidates
- o Check pagination
- o Check logout module



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TOTAL HOURS: 50

SIGNATURE OF STUDENT

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EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

Signature of Faculty Mentor

Signature of officer-in-charge
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Date: 06 - 03 - 2023

Date: 06-03-2023

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Annexure 1

Enrollment no:
190170107111

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: PATEL SIDDH KANUBHAI

DIARY OF THE WEEK: Dt: 06-03-2023 TO 12-03-2023

DEPARTMENT: COMPUTER ENGINEERING SEM: 8

NAME OF THE ORGANISATION: MEDITAB SOFTWARE PVT. LTD.

NAME OF THE PLANT/SECTION/DEPARTMENT: AUTOMATION TEAM

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: BHAVIK TIKUDIYA

DESCRIPTION OF THE WORK DONE IN BRIEF

- ☒ This week, I did one scenario based on bug dashboard module.
- ☒ In I wrote a script to pass all the test scenarios given to me for the automated bug dashboard module.

Scenarios:

- Check login module
- Navigate to the bug dashboard screen
- Verify total count of bugs
- Add bugs
- Add task for that bug
- Verify bug added or not
- Check validation of empty fields
- Verify different filters and based on that total count of bugs
- Check logout module



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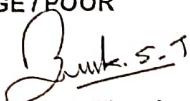
ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી
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TOTAL HOURS: ----- 50

SKPCTD
SIGNATURE OF STUDENT

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EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR


Signature of Faculty Mentor


Signature of officer-in-charge
of Dept. / Section / Plant

Date: 13 - 03 - 2023

Date: 13-03-2023

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Annexure 1

Enrollment no:
190170107111

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: PATEL SIDDH KANUBHAI

DIARY OF THE WEEK: Dt: 13-03-2023 TO 19-03-2023

DEPARTMENT: COMPUTER ENGINEERING SEM: 8

NAME OF THE ORGANISATION: MEDITAB SOFTWARE PVT. LTD.

NAME OF THE PLANT/SECTION/DEPARTMENT: AUTOMATION TEAM

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: BHAVIK TIKUDIYA

DESCRIPTION OF THE WORK DONE IN BRIEF

- This week, I have done one scenario based on the bug dashboard module.
- I have written a script to pass all the test scenarios given to me for the automated bug dashboard module.

Scenarios:

- Check login module
- Navigate to the bug dashboard screen
- Verify the total count of bugs
- Add bugs
- Add a task for that bug
- Verify bug added or not
- Check validation of empty fields
- Verify different filters and based on that total count of bugs
- Check logout module



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52

TOTAL HOURS: -----

GKPde
SIGNATURE OF STUDENT

- The above entries are correct and the grading of work done by Trainee is
EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

P
Signature of Faculty Mentor

Dwark S-1
Signature of officer-in-charge
of Dept. / Section / Plant

Date: ૨૦ - ૦૩ - ૨૦૨૩

Date: 20-03-2023

- ★ Grading of Work, for trainee may be given depending upon your judgement about
his Punctuality, Regularity, Sincerity, Interest taken, Work done etc.



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Annexure 1

Enrollment no:
190170107111

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: PATEL SIDDH KANUBHAI

DIARY OF THE WEEK: Dt: 20-03-2023 TO 26-03-2023

DEPARTMENT: COMPUTER ENGINEERING **SEM:** 8

NAME OF THE ORGANISATION: MEDITAB SOFTWARE PVT. LTD.

NAME OF THE PLANT/SECTION/DEPARTMENT: AUTOMATION TEAM

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: BHAVIK TIKUDIYA

DESCRIPTION OF THE WORK DONE IN BRIEF

- This week, I have done one scenario based on the bug dashboard module which is continued for past week
- I have written script to pass all the test scenarios given to me for the automated bug dashboard module.

Scenarios:

- Check login module
- Navigate to the bug dashboard screen
- Verify the total count of bugs
- Add bugs
- Add a task for that bug
- Verify bug added or not
- Check validation of empty fields
- Verify different filters and based on that total count of bugs
- Check logout module



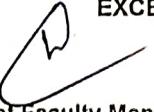
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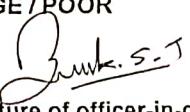
ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી
(ગુજરાત અધિનિયમ ક્રમાંક: ૨૦/૨૦૦૭ દ્વારા સ્થાપિત)

TOTAL HOURS: 53

S.K.Patel
SIGNATURE OF STUDENT

- ⦿ The above entries are correct and the grading of work done by Trainee is
EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR


Signature of Faculty Mentor


Signature of officer-in-charge
of Dept. / Section / Plant

Date: 27 - 03 - 2023

Date: 27-03-2023

- ⦿ Grading of Work, for trainee may be given depending upon your judgement about
his Punctuality, Regularity, Sincerity, Interest taken, Work done etc.



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Annexure 1

Enrollment no:
190170107111

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: **PATEL SIDDH KANUBHAI**

DIARY OF THE WEEK: Dt: **27-03-2023** TO **02-04-2023**

DEPARTMENT: **COMPUTER ENGINEERING** SEM: **8**

NAME OF THE ORGANISATION: **MEDITAB SOFTWARE PVT. LTD.**

NAME OF THE PLANT/SECTION/DEPARTMENT: **AUTOMATION TEAM**

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: **BHAVIK TIKUDIYA**

DESCRIPTION OF THE WORK DONE IN BRIEF

- This week, I have done one scenario based on the task review module.
- I have written script to pass all the test scenarios given to me for the automated task review module.

Scenarios:

- Check login module
- Navigate to the task review screen
- Add review
- Verify empty fields
- Add review parameters
- Add verification points
- Verify review added or not
- Open view details popup
- Verify notes, ratings, attachments, and verification points
- Check logout module



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TOTAL HOURS: - - - - - 48

Expected

SIGNATURE OF STUDENT

- ⦿ The above entries are correct and the grading of work done by Trainee is
EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

[Signature]
Signature of Faculty Mentor

[Signature]
Signature of officer-in-charge
of Dept. / Section / Plant

Date: 03 - 04 - 2023

Date: 03-04-2023

- ⦿ Grading of Work, for trainee may be given depending upon your judgement about
his Punctuality, Regularity, Sincerity, Interest taken, Work done etc.



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Annexure 1

Enrollment no:
190170107111

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: PATEL SIDDH KANUBHAI

DIARY OF THE WEEK: Dt: 03-04-2023 TO 09-04-2023

DEPARTMENT: COMPUTER ENGINEERING SEM: 8

NAME OF THE ORGANISATION: MEDITAB SOFTWARE PVT. LTD.

NAME OF THE PLANT/SECTION/DEPARTMENT: AUTOMATION TEAM

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: BHAVIK TIKUDIYA

DESCRIPTION OF THE WORK DONE IN BRIEF

- This week, I have done one scenario based on the task review module which is continued for past week.
- I have written script to pass all the test scenarios given to me for the automated task review module.

Scenarios:

- Check login module
- Navigate to the task review screen
- Add review
- Verify empty fields
- Add review parameters
- Add verification points
- Verify review added or not
- Open view details popup
- Verify notes, ratings, attachments, and verification points
- Check logout module



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TOTAL HOURS: 48

SK Patel
SIGNATURE OF STUDENT

- The above entries are correct and the grading of work done by Trainee is
EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

Signature of Faculty Mentor

Dinesh S. T

Signature of officer-in-charge
of Dept. / Section / Plant

Date: 10 - 04 - 2023

Date: 10-04-2023

- Grading of Work, for trainee may be given depending upon your judgement about
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Anneature 1

Enrollment no:
190170107111

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: PATEL SIDDH KANUBHAI

DIARY OF THE WEEK: Dt: 10-04-2023 TO 16-04-2023

DEPARTMENT: COMPUTER ENGINEERING SEM: 8

NAME OF THE ORGANISATION: MEDITAB SOFTWARE PVT. LTD.

NAME OF THE PLANT/SECTION/DEPARTMENT: AUTOMATION TEAM

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: BHAVIK TIKUDIYA

DESCRIPTION OF THE WORK DONE IN BRIEF

- > This week, I have completed the review points which are given to me for the enhancement of the project.
> All scenario has review points to improve the coding standard up to the industry level.
> Reusability and readability are the main goals to achieve coding standards.
> For example,
- If some steps are dependent on one step, then we should check whether this element is present or not before performing any operation on that. So, if an element is not present then other steps should not perform.
 - If a new window opened after clicking any element, then we should check new window opened or not before performing any operation.
 - We have to mention the result statement for every operation, so the user can see the report and verify which operation is performed successfully and which failed.



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TOTAL HOURS: ----- 52 -----

Gkpdej
SIGNATURE OF STUDENT

- ⦿ The above entries are correct and the grading of work done by Trainee is
EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

P
Signature of Faculty Mentor

Bunk. S-T
Signature of officer-in-charge
of Dept. / Section / Plant

Date: 17 - 04 - 2023

Date: 17 - 04 - 2023

- ★ Grading of Work, for trainee may be given depending upon your judgement about
his Punctuality, Regularity, Sincerity, Interest taken, Work done etc.

Monthly Attendance sheet for Internship/ Project

Name of student: Patel Siddh K.

Enrolment Number: 190170107111

Department Name: Computer Engineering

Internship/Project commencement date: 23/01/2023

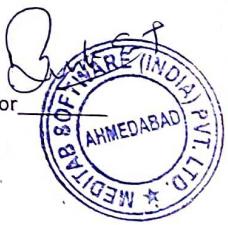
Name of Industry mentor/ Faculty Mentor: Bhavik Tikudiy

Name and Address of Company /Organisation: 219/1A, Kalusager mall, sahulchur cross road, ghatlodiya, Ahmedabad

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
																						P	P	P	P	P		P	P		
JAN																															

Remarks (if any)by Industry mentor/ Faculty mentor _____

Sign of Industry mentor/Faculty mentor _____



Monthly Attendance sheet for Internship/ Project

Name of student: Patel Siddh K.

Enrolment Number: 190170 107111

Department Name: Computer Engineering

Internship/Project commencement date: 23/01/2023

Name of Industry mentor/ Faculty Mentor: Bhavik Tikadiya

Name and Address of Company /Organisation: 219/A, Kuljasagar Mall, Sutudhar cross road, ghatlodiya, Ahmedabad

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	P	P	P		P	P	P	P	P	P		P	P	P	P	P		P	P	P	P	P	P	P	P	P	P				

Remarks (if any)by Industry mentor/ Faculty mentor _____

Sign of Industry mentor/Faculty mentor



Monthly Attendance sheet for Internship/ Project

Name of student: Patel Siddh K.

Enrolment Number: 190170107111

Department Name: Computer Engineering

Internship/Project commencement date: 23/01/2023

Name of Industry mentor/ Faculty Mentor: Bhavik Tikudiyia

Name and Address of Company /Organisation: 219/10, kulusagar mill, sattoda cross road, ghatlodia, Ahmedabad

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
MAR	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		

Remarks (if any) by Industry mentor/ Faculty mentor _____

Sign of Industry mentor/Faculty mentor _____



Monthly Attendance sheet for Internship/ Project

Name of student: Patel Siddh K.

Enrolment Number: 19017010711

Department Name: Computer Engineering

Internship/Project commencement date: 23/01/2023

Name of Industry mentor/ Faculty Mentor: Bhuvik Tikudiyia

Name and Address of Company /Organisation: 214/1A, Kalasagar null, Ghatlandhar cross Road, Ghatlandhar, Ahmedabad.

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
APR			P	P	P	P	P			P	P	P	P	P																	
Total Present Days= <u>10</u>																															

Remarks (if any)by Industry mentor/ Faculty mentor _____

Sign of Industry mentor/Faculty mentor _____





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Annexure 2

Feedback Form by Industry expert

Student Name: Patel Siddh Kunubhai

Date: 24/04/2023

Work Supervisor: Bhavik Tikadiya

Title: Web Automation Team

Company/Organization: Meditab Software Inc.

Enrollment No: 190170107111

Internship Address: ૧૧/૧, Kalasagar Mall, Shastriji Cross Road Ghatlodia, Ahmedabad,
380061

Dates of Internship: From 23/01/2023 To: 23/04/2023

Please evaluate your intern by indicating the frequency with which you observed the following behaviors:

Parameters	Needs improvement	Satisfactory	Good	Excellent
Shows interest in work and his/her initiatives				✓
Produces high quality work and accepts responsibility				✓
Uses technical knowledge and expertise				✓
Analyzes problems effectively				✓
Communicates well and writes effectively				✓

Overall performance of student intern: (Needs improvement/ Satisfactory/Good/Excellent):

Additional comments, if any:



Signature of Industry person with name and stamp:

Signature of the Faculty Mentor