Department of Physical Science

Faculty of Applied Science

University of Vavuniya

Internship Record Book

**BSc Honours in Computer Science**

CSH4226 Industrial Training

6 Credits (600 Notional Hours)

Academic Year 2021/2022

Student Name: S.Sweshthika

Registration Number: 2018/ASP/42

Index Number: A21033

Company Name: CodeLantic Private Ltd.

Field of Internship: Trainee Quality Assurance Engineer

Start Date: 18th of March 2024

Name of the Industry supervisor: Mr. Peter Mariampillai

Designation of the Industry Supervisor: Quality Assurance Lead

Email of the Industry Supervisor: peter@codelantic.com

#### Name of the Academic Supervisor: Dr. Nagulan Ratnarajah

Designation of the Academic Supervisor: Senior Lecturer

Email address of the Academic Supervisor: nagulanr@vau.ac.lk

[2024.04.01]

To: Mr. Peter Mariampillai

Subject**: Progress Report on IT Internship: Month [*01*] – [*March*] [*2024*]**

I am writing to update you on my progress during my IT internship at CodeLantic Pvt Ltd. Since the start of my internship, I have been involved in various projects and activities, and I am submitting the last month's progress report broken down into days.

|  |  |  |
| --- | --- | --- |
| Month | March |  |
| Year | 2024 |
| Week | 1 |
| Day | **Tasks Completed** | **Challenges Faced** | **Knowledge/technology or skills learnt** |
| 18/03/2024 | Introduction about Quality Assurance  Learn about Katlon R&D | **Starting from Scratch**: - Since I was new to this field and didn't know anything about Katlon Studio, it took me a while to understand everything.  **Using Outside Help**: I had to depend on the Lead to guide me and give me references because what I learned in university wasn't enough. | * Developed a practical understanding of QA principles and their application in real-world contexts within Katlon R&D. * Gained insight into the unique QA methodologies and processes specific to Katlon R&D, enhancing adaptability and flexibility in work environments. |
| 19/03/2024 |
| 20/03/2024 | Do the task In MT Agent Portal Web automation | * Struggled with understanding the intricate structure of the MT Agent Portal's web interface. * Faced difficulties in identifying and handling dynamic elements and content, such as real-time updates and pop-up notifications. * Encountered challenges in integrating automation scripts with the Katlon Studio environment due to lack of familiarity with its workflow. | * Proficiency in using Katlon Studio for web automation tasks. * Understanding of web element identification methods and strategies, such as XPath and CSS selectors. * Knowledge of handling dynamic content and elements using wait conditions and dynamic locators. * Experience with handling authentication mechanisms, such as login forms and session management. * Skills in creating robust and maintainable automation scripts for web applications. |
| 21/03/2024 | Learn about POSTMAN R&D | * Learning the basics of Postman R&D from scratch. * Understanding the functionalities and features of the Postman interface. * Navigating through Postman documentation effectively. * Managing and organizing test data efficiently within Postman. | * Familiarity with Postman interface, including requests, collections, environments, and assertions. * Understanding of API testing principles, such as request methods, status codes, headers, and response validation. * Ability to navigate Postman documentation to find relevant information. * Techniques for managing test data using variables, data files, and dynamic data generation. |
| 22/03/2024 |
| Week | 2 |  |
| Day | **Tasks Completed** | **Challenges Faced** | **Knowledge/technology or skills learnt** |
| 25/03/2024 | Learn about KatlonAPI R&D | * Struggled to grasp the concepts and functionalities of KatlonAPI due to its complexity and unfamiliarity. * Faced difficulties in understanding the documentation and resources available for KatlonAPI, hindering the learning process. * Encountered challenges in setting up and configuring KatlonAPI environment for development and testing purposes. | * Acquired understanding of API concepts and principles through learning about KatlonAPI. * Familiarized myself with the structure and functionalities of KatlonAPI, including its endpoints and parameters. * Gained proficiency in navigating KatlonAPI documentation and resources to find relevant information. * Developed skills in setting up and configuring KatlonAPI environment for development and testing purposes. * Learned techniques for integrating KatlonAPI with other systems |
| 26/03/2024 | Learn about JMeter. | **Understanding JMeter's Purpose**: - Initially finding it challenging to grasp the purpose and functionality of JMeter as a load testing tool, especially if i were unfamiliar with performance testing concepts.  **Complexity of Interface**:- Dealing with the complexity of JMeter's user interface and navigating through its various components, such as thread groups, samplers, listeners, and controllers. | **Performance Testing Concepts**:- Gaining a solid understanding of performance testing concepts such as load testing, stress testing, and scalability testing, and how they apply to real-world scenarios.   **JMeter Architecture**:- Learning about JMeter's architecture, components, and working principles, including thread groups, samplers, controllers, listeners, and assertions.  **Parameterization Techniques**: Understanding and implementing parameterization techniques in JMeter for dynamic test data generation, including CSV files, user-defined variables, and functions. |
| 27/03/2024 |
| 28/03/2024 | Learn about Test cases & SRS R&D | **Understanding Test Requirements**: - Difficulty in understanding the requirements provided for writing test cases.  **Design Complexity**:- Dealing with the complexity of designing effective test cases that cover various scenarios. | **Test Case Design Techniques**: - Acquiring knowledge of various test case design techniques such as equivalence partitioning, boundary value analysis, and decision tables to design effective test cases.  **Test Case Writing Skills**:- Improving skills in writing clear, concise, and comprehensive test cases that cover all possible scenarios and edge cases. |
| 29/03/2024 |

In addition to the tasks and projects assigned to me, I have also been actively involved in team meetings, discussions, and training sessions. I have also taken the initiative to learn about new technologies and tools that are relevant to my role.

Kindly certify the monthly report by filling in the attached form.

Thank you for your time and consideration.

Sincerely,

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[S.Sweshthika]

[2018/ASP/42]

[A21033]

**Internship Supervisor's Certification of Monthly Report**

**Certifying Month:** March **Year:** 2024

**Student Name:**  Ms. Swesthika Sureshkumar

**Student Registration Number:** 2018/ASP/42

**Student Index Number:** A21033

**Field of internship:** Trainee Quality Assurance Engineer

**Company Name:** CodeLantic Private Ltd.

**Industry Supervisor Name:** Mr. Peter Mariampillai

**Industry Supervisor Designation:** Quality Assurance Lead

**Industry Supervisor email:** peter@codelantic.com

**Date:** 2024.04.01

I certify that I have reviewed the above progress report and [confirm/deny] that the information provided by the intern/trainee is accurate and reflects/does not reflect their performance during their IT internship. I am [satisfied/not satisfied] with their progress, and below are the marks given for their performance of the reporting month.

1. **Technical skills:** ability to perform technical tasks related to their field of study or area of expertise. This may include programming, design, data analysis, or any other relevant technical skills. **[ /10]**
2. **Communication skills:** effectively communicating with team members, managers, and clients. This includes both written and verbal communication skills. **[ /10]**
3. **Time management:** the ability to manage their time efficiently, prioritize tasks, and meet deadlines. **[ /10]**
4. **Professionalism:** the ability to act professionally, dress appropriately, and adhere to workplace policies and procedures. **[ /10]**
5. **Initiative:** the ability to take the initiative, work independently, and suggest ideas for improving processes or projects. **[ /10]**
6. **Problem-solving skills:** ability to identify and solve problems, troubleshoot technical issues, and think critically. **[ /10]**
7. **Adaptability:** the ability to adapt to changes in project scope or work requirements and to work well in a team environment. **[ /10]**
8. **Attitude:** overall attitude towards their work, willingness to learn and take feedback, and enthusiasm for their role and the company. **[ /10]**

Remarks:

Overall Performance Marks in %:

Industry Supervisor’s Signature

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[Mr. Peter Mariampillai]

Department of Physical Science

Faculty of Applied Science

University of Vavuniya

[Date]

To: Head. Department of Physical Science

Subject**: Internship Performance Report for [2018/ASP/42]**

I am writing to provide you with a report on the internship performance of Ms. Sweshthika Sureshkumar, an undergraduate student in our department who has recently completed their internship at CodeLantic Private Ltd.

As the academic Supervisor for Ms.Sweshthika Sureshkumar, I have been in contact with them throughout their internship and have received regular updates on their progress. Based on my observations and the industry supervisor’s feedback, I am pleased to report that Ms. Sweshthika Sureshkumar has [performed/not performed] well during their internship.

Tasks Completed:

* [Insert task 1 and the outcome achieved]
* …………….
* [Insert task n and the outcome achieved]

Challenges Faced:

* [Insert challenge 1 and how it was overcome]
* ……………
* [Insert challenge n and how it was overcome]

Learnings:

* [Insert learning 1 and how it will help the student in their future studies or career]
* ……………
* [Insert learning n and how it will help the student in their future studies or career]

[Student Name] [has/has not] demonstrated technical skills, particularly in [insert relevant skills], and has been able to apply these skills to the tasks assigned to them

[Student Name] [has/has not] shown a positive attitude towards their work. I am [confident/not confident] that the skills and experience they have gained through this internship will benefit their future studies and career.

Overall Mark for the internship:

Sincerely,

Academic Supervisor's Signature

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[Dr. Nagulan Ratnarajah]