

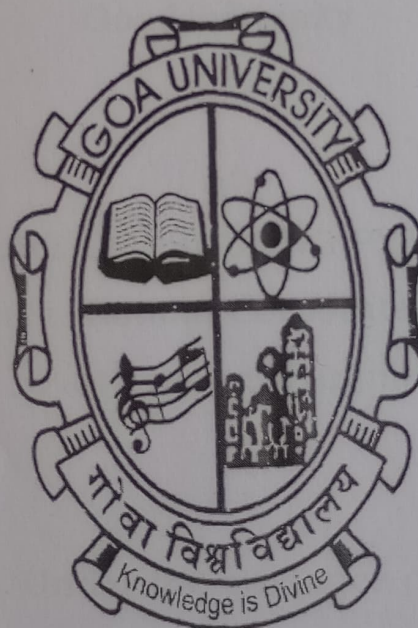


INTERNSHIP REPORT

REPORT OF INTERNSHIP DONE AT INFUSE CONSULTING

HARISH KAVLEKAR

2031



REPORT OF INTERNSHIP DONE AT INFUSE CONSULTING

Completed by
HARISH G. KAVLEKAR
2031

for the partial fulfilment of
MCA Degree for Semester **VI**
Discipline of Computer Science and Technology,
Goa Business School,
Goa University

At
INFUSE CONSULTING PVT LTD.
Suntek Kanaka Corporate Park,
Patto centre, Panjim

Under the guidance of
MR. SUBODH BORKAR
(Head of Product Development, useMango, Infuse Consulting)

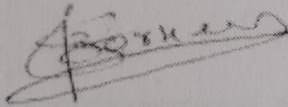
2nd June 2023

INTERNSHIP CERTIFICATE

This is to certify that **Harish G. Kavlekar**, Roll No. 2031, currently pursuing the 6th Semester of the MCA program in the Computer Science and Technology discipline at Goa Business School, Goa University, has been actively engaged as an intern with our organization since January 9th, 2023. During his internship, he has consistently displayed exemplary performance by successfully accomplishing assigned tasks and other related responsibilities.

Harish exhibits a strong sense of self-motivation and requires minimal supervision to effectively complete his assigned tasks. He has demonstrated remarkable aptitude for swiftly acquiring the required domain knowledge and mastering the necessary technologies. His rapid learning pace has greatly contributed to the overall productivity and successful delivery of the team.

Yours Sincerely,



Subodh Borkar,
Head of Product Development - useMango

GOA UNIVERSITY



GOA BUSINESS SCHOOL

CERTIFICATE OF EVALUATION

This is to certify that Mr. HARISH KAVLEKAR has been evaluated
for the project work

titled **"Report of Internship done at Infuse Consulting"** in
partial fulfilment for the

award of the degree in Master of Computer Application.

Examiner 1

Examiner 2

Place: Goa University

Date: 15 June 2023
Business School

Dean, Goa

Acknowledgement

I would like to express my sincere gratitude and appreciation to all the individuals who have made my internship experience with Infuse Consulting possible. Their guidance, support, and encouragement have been invaluable in my learning and professional development.

I am deeply thankful to Mr. Nalin Prabhu, the CEO/CTO of Infuse Consulting, for providing me with the opportunity to intern at their esteemed organization. His belief in my abilities and trust in my potential have been pivotal in shaping my career.

I would like to extend my sincerest thanks to Mr. Subodh Borkar, the Head of Product Development useMango at Infuse Consulting, for serving as my mentor throughout the internship. His insightful advice, guidance, and unwavering support have been instrumental in my growth and learning.

I am also grateful to Mr. Piyush Sharma, a Product Engineer at Infuse Consulting, for his willingness to take time out of his busy schedule to provide me with guidance and assistance. His expertise and support have been invaluable in carrying out my tasks during the internship.

I would like to acknowledge and thank the faculty and staff at the MCA, Goa University for their constant encouragement and support during my entire course of study.

My heartfelt appreciation goes out to my family and friends for their unwavering love, support, and encouragement throughout my internship. Their belief in me has been a constant source of motivation.

Lastly, I would like to express my gratitude to the entire Infuse family, particularly my seniors Delroy Martins, Imtiyaz Khan, Vinay Prabhu, Joyrel Vaz, Rochelle Martins, Minaxi Patil, Onkar Parshekar, and Preshly Fernandes. Their willingness to help and guide me has been invaluable. I would also like to thank my fellow interns for their support and collaboration, which has contributed to my learning and growth during this period.

I consider this internship opportunity as a significant milestone in my career development. I will strive to utilize the skills and



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Yours Sincerely,



Subodh Borkar,
Head of Product Development - useMango

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U74999PN2018PTC179748
www.infuse.it

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I consider this internship opportunity as a significant milestone in my career development. I will strive to utilize the skills and

knowledge I have gained in the best possible way and continue to work on their improvement.

Thank you once again to everyone who has been a part of my internship journey. Your contributions have been immensely valuable, and I am truly grateful.

- HARISH KAVLEKAR

Table of Contents

Acknowledgement	5
Introduction	8
Company Profile	9
About Infuse Consulting	9
What is useMango?	10
What are the key benefits of using useMango?.....	10
About useMango	
Product – UseMango.....	
Certifications Completed under Internship and Self Study.....	19
My Contributions	13
Tools and Technologies Used	20
Project timeline/Project diary	20
My Reflections / Experiences of Internship.....	23
References.....	24

Introduction

This report is a short description of my full-time on-site internship at Infuse.

I joined as a Team Intern at Infuse Consulting on 9th January 2023 and have been here since then. This report contains necessary information about the organization, the projects I worked on and the other tasks I completed in this internship period.

In the chapters that will follow, I will talk about the company, the work here, the culture, etc. Then, I shall elaborate on the projects I worked on, a brief information about the projects, the modules I built and the tasks I completed in those modules.

This report highlights my learning experience and my contributions to the organization as an intern. This will describe the knowledge that I gained by successfully completing the tasks that were assigned to me.

I'll also discuss the tools and technologies that were used, as well as the timeframe for my internship. Finally, I'll talk about my experience and how it has helped me grow both personally and professionally.

Company Profile



About Infuse Consulting

Infuse Consulting is an international company and leverages strategic consulting partners as well as its technology partners to deliver the best solution.

Recognized as the leading provider of Test Automation and Lifecycle Transformation Services for successful, ambitious organizations, Infuse Consulting is headquartered in the UK and since 2002 has helped more than 500 businesses get the most out of their Software Delivery Teams.

Infuse Consulting works hard in the fields of Test Automation and DevOps to reliably deliver several clear benefits for organizations seeking assistance with their Software Delivery.

Infuse is a Gold Partner of Micro Focus and Oracle, and has a partner network including CA, Microsoft, AWS and SAP.

Infuse prides itself on its ability to provide innovative solutions, especially in test automation. They have been automating mobile testing since 2003 and developed a functional scriptless test automation tool, useMango™.



What is useMango?

- Easy to use Test Automation Tool.
- Designed so non-technical individuals can build robust automation scripts.
- Flexible framework functionality that can be adapted to match your testing ability.
- Avoids the costs of engineering your own high maintenance frameworks.
- You can use useMango to create automated tests for web and packaged applications such as Oracle and SAP.

What are the key benefits of using useMango?

- Component based test building removes the need for technical developers.
- Reduce months of manual testing into minutes.
- Fast ROI, allowing you to focus on business-critical issues.
- Increase confidence in your continuous delivery output with automated end to end testing.
- Enable Continuous Delivery by adding automated end-to-end testing of your build pipelines

About useMango

With useMango tests are quicker and more efficient, saving businesses time and money. With useMango you can build a test by selecting from 200+ pre-built components, just add data and it is ready to run. If you have problems with forms, or complicated pages useMango provides an easy solution, you can activate the useMango scanner to scan your application, with a single click, this will identify all the testable objects on any UI and create a new component. If you need to create a custom component, useMango provides you the means to do so. A software tester can complement the useMango generated scripts with custom code, using in-built frameworks made with Ruby, VBScript, Python etc.

Other Key Features

- Works on modern web & desktop applications.
- Codeless test tool & framework.
- Extended to support Package Applications SAP (GUI and Web Variants), Oracle E-Business, Oracle Fusion.
- Ensure application quality with fast and frequent testing.
- Test processes from end-to-end across multiple platforms and technologies.
- Business users and manual testers can automate tests without coding.
- Easily keep hundreds of tests up to date as your application changes overtime.
- Expand the scope of your testing with data-driven tests.
- Meet exceptional automation requirements with simple scripted components.
- A scalable cloud-based test service which meets your growing needs.
- Get automated test outcomes directly in your continuous integration pipelines.
- Integrates with your modern continuous integration tooling.

Product – UseMango

Overview

UseMango is a windows application which has several different architectural structures, from the server to website and common libraries that contain shared code. UseMango is maintained and developed by the Infuse team and has customers worldwide.

Certifications Completed under Internship and Self Study



My Contributions

The early stage of the internship was about learning about the useMango product, various technologies used in the company and getting accustomed to the domain of the product. The first few weeks were a training period, where we had to learn about various topics. During my training period, I gained valuable knowledge and experience in various programming languages, tools, and technologies. Here is a brief overview of my training experience and the skills I acquired:

1. Introduction to Programming With Ruby:

I received an introduction to the Ruby programming language, learning its syntax, data structures, and object-oriented concepts. Through a series of exercises, I honed my skills in writing Ruby programs and solving programming challenges.

2. Introduction to HTML, CSS, JS & DOM:

I explored the fundamentals of web development, including HTML for creating web content, CSS for styling, JavaScript for interactivity, and the Document Object Model (DOM) for manipulating web page elements. Through practical exercises, I gained hands-on experience in building and enhancing web pages.

3. Introduction to Automation and Selenium:

I delved into the world of automation, understanding the importance of automating repetitive tasks and the basics of Selenium, a popular automation framework. I learned how to write automated tests using Selenium WebDriver and executed exercises to practice automating web interactions.

4. Introduction to Git & Source Code Management:

I familiarized myself with Git, a distributed version control system, and its role in managing source code. I learned essential Git commands, such as cloning repositories, creating branches, committing changes, and merging code. Through exercises, I mastered the basics of collaborating with others using Git.

5. Introduction to Containerization and Docker:

I gained an understanding of containerization and its benefits, with a specific focus on Docker. I learned how to create, manage, and deploy containerized applications using Docker. Through hands-on exercises, I practiced building and running containers, managing images, and deploying containerized applications.

6. CI/CD Pipelines and Jenkins:

I learned about continuous integration and continuous deployment (CI/CD) pipelines, essential for automating the software development process. I explored Jenkins, a popular CI/CD tool, and its features for building, testing, and deploying applications. Through exercises and workshops, I gained practical experience in setting up CI/CD pipelines.

7. Programming in Python:

I received an introduction to the Python programming language, its syntax, data structures, and key concepts. I practiced writing Python programs and solving programming challenges to strengthen my Python skills.

8. Introduction to Webservice Architecture and Testing:

I learned about web service architectures and frameworks, with a focus on building web services using Python. I gained practical experience in developing web services and testing them using unit testing and API testing techniques.

9. Introduction to AWS Services and Infrastructure as Code:

I explored various Amazon Web Services (AWS) and their functionalities, understanding the basics of cloud computing. I learned about Infrastructure as Code (IaC) and practiced deploying projects on AWS using IaC principles.

10. Workshop Projects and Demonstrations:

During the training, I participated in workshops projects where I applied the skills I learned. These workshops involved designing, developing, and testing solutions for real-world problems. I received guidance from mentors and had the opportunity to present my work to the team.

Overall, my training experience provided me with a strong foundation in programming, web development, automation, source code management, containerization, CI/CD pipelines, and cloud computing. I developed practical skills through hands-on exercises and workshops, preparing me for real-world software development projects.

Task was assigned to explore the useMango app, to explore its features, write tests, execute the tests, view the results and a review session wherein all that was learnt was shared among other interns and feedback was given by the mentor.

After useMango was explained, the next objective was to find bugs and make recommendations for enhancements. In order to do this, the platform has to be actively explored, its features tested, and any problems noted. I carefully examined various functionalities, processes, and user interfaces to look for any potential flaws, mistakes, or places that may be improved. I scrupulously

recorded each defect along the way, including how to reproduce it and any pertinent information.

I also concentrated on making helpful recommendations to enhance useMango. I came up with suggestions for improving the platform's usability, functionality, and overall user experience based on my knowledge of it and my experience using it. These recommendations covered topics like strengthening the platform's performance and stability, optimizing operations, adding new capabilities, and improving the user experience. After the initial tasks of exploring the useMango app, identifying bugs, and providing suggestions for improvement, I underwent training on Jira, a powerful project management tool. With my newly acquired knowledge of Jira, I incorporated its usage into my workflow for tracking tasks related to useMango.

I leveraged Jira to create and manage tasks specific to useMango, allowing me to organize and prioritize my work effectively. I utilized Jira's task assignment feature to assign tasks to myself and other team members, ensuring clear responsibilities and accountability.

Next, I had the opportunity to solve a bug related to the sorting of scripted components. The bug caused the components to be displayed without any specific order, neither by date nor by name. This made it challenging for users to find and work with the components efficiently.

After fixing the bug, the next task assigned was to perform a Ruby upgrade for existing components within the system. This task involved updating the Ruby programming language to its latest version while ensuring compatibility with the existing components and dependencies.

To accomplish this task, I first conducted a thorough analysis of the current system's components and their dependencies. I identified the specific components that required an upgrade and assessed any potential compatibility issues or breaking changes associated with the Ruby upgrade.

Careful testing was conducted after the upgrade to ensure the components continued to function as expected. I executed comprehensive test cases and performed regression testing to identify and resolve any issues that may have arisen due to the Ruby upgrade.

Throughout the process, I maintained effective communication with the development team and stakeholders, providing regular updates on the progress and any challenges encountered. Collaboration and coordination were essential to ensure a smooth transition and minimize any disruptions to the system's functionality.

By successfully upgrading the existing components to the latest Ruby version, I contributed to maintaining a secure and up-to-date system while taking

advantage of the latest features and performance improvements offered by the Ruby programming language.

After the completion of the Ruby upgrade task, I assigned task to solve bug where Web-SelectSingle component does not work when select is done by index and value. To address the issue, I thoroughly investigated the codebase and identified the specific section responsible for the selection logic. After careful analysis, I made the necessary modifications to fix the bug.

Next bug that I was assigned to solve was related to the Web-WaitForElement component. The bug occurred when no timeout value was passed while using the component with the New Ruby version.

Next, I was assigned to solve a bug related to the screenshot functionality in the test execution report. The bug involved zooming in on the screenshots captured when a test step failed, with new Ruby upgrade. I made the necessary code modifications to ensure that the screenshots accurately represented the entire browser window without any zooming or cropping.

I had the opportunity to contribute to the testing process in two significant ways. Firstly, I was able to write test cases for bug fixes, and secondly, I participated in testing bug fixes implemented by other developers using Jira Testing. This experience provided valuable insights into the collaborative nature of bug tracking and the importance of thorough testing.

The next bug I was assigned to solve during my internship involved the inability to delete unused scripted components in the user interface (UI). Specifically, the references indicating the usage of scripted components were not being properly reflected, causing difficulties in identifying and deleting components that were no longer in use. I made the necessary modifications to the code to ensure accurate tracking of scripted component usage. I updated the logic responsible for monitoring and reflecting the references in the UI. This involved implementing proper checks and updating mechanisms to accurately capture and display component usage information.

Next, I was assigned the task of checking the compatibility of all SAP components with an upgraded Ruby version. To accomplish this, I analyzed the impact of the Ruby upgrade on the SAP components and set up a suitable testing environment. I then executed a series of test cases designed to evaluate the functionality of each SAP component and recorded the test results.

Throughout the testing process, I actively collaborated with the development team, reporting any compatibility issues and assisting in troubleshooting efforts. This task provided me with a deeper understanding of the SAP components, their dependencies, and their interactions with the upgraded Ruby version.

Tools and Technologies

C#



C# is a general-purpose, modern and object-oriented programming language. It was developed by Microsoft led by Anders Hejlsberg and his team within the .Net initiative.

.NET framework



The .NET Framework is a software framework developed by Microsoft that runs primarily on Microsoft Windows. It includes a large class library called Framework Class Library and provides language interoperability across several programming languages.

Ruby



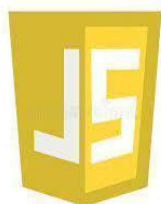
Ruby is an interpreted, high-level, general-purpose programming language. It was designed and developed in the mid-1990s by Yukihiro "Matz" Matsumoto in Japan.

Python

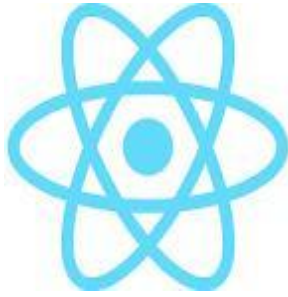


Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its built-in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting language.

JavaScript



JavaScript is a lightweight, interpreted, object-oriented language with first-class functions, and is best known as the scripting language for Web pages, but it's used in many non-browser environments as well.



React JS

React is a free and open-source front-end JavaScript library for building user interfaces based on UI components. It is maintained by Meta (formerly Facebook). Although React is a library, it is widely used in web development. React makes it painless to create interactive UIs.



AWS

Amazon Web Services is a subsidiary of Amazon providing on-demand cloud computing platforms and APIs to individuals, companies, and governments, on a metered pay-as-you-go basis.



Postman

Postman is an API platform for building and using APIs. Postman simplifies each step of the API lifecycle and streamlines collaboration so you can create better APIs—faster



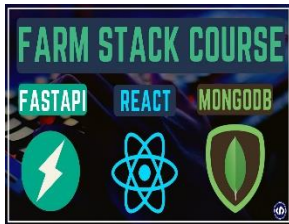
Git

Git is a distributed version-control system for tracking changes in source code during software development. It is designed for coordinating work among programmers, but it can be used to track changes in any set of files.



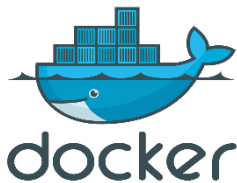
MongoDB

MongoDB is a non-relational document database that provides support for JSON-like storage. The MongoDB database has a flexible data model that enables you to store unstructured data.



Farm Stack

The FARM stack is FastAPI, React, and MongoDB. It is a simpler form of the MERN stack that can make developing apps even faster.



Docker

Docker is a software platform that allows you to build, test, and deploy applications quickly. Docker packages software into standardized units called containers that have everything the software needs to run including libraries, system tools, code, and runtime.



Selenium

Primarily it is for automating web applications for testing purposes, but is certainly not limited to just that. Boring web-based administration tasks can (and should) also be automated as well.



Jenkins

Jenkins

Jenkins is an open source continuous integration/continuous delivery and deployment (CI/CD) automation software DevOps tool written in the Java programming language. It is used to implement CI/CD workflows, called pipelines.

Project timeline/Project diary

January 2023

- Week 1
 - Formal Orientation and onboarding process.
 - Introduction to useMango.
 - Exploring features of useMango.
 - Automated a test using the product.
 - Environment and tools set up for development.
- Week 2
 - Introduction to Programming With Ruby
 - Ruby Program Exercises
 - Introduction to HTML, CSS, JS & DOM
 - Exercises
 - Introduction to Automation
 - Introduction to Selenium
 - Selenium Exercise
 - Introduction to Git & source code management
 - Exercises
 - Introduction to Containerization and Docker
 - Exercises
- Week 3
 - Workshop introduction + Sample solution
 - Workshop: Build a basic containerized testing framework for a practice website
 - Demo of work shop
 - CI & CD pipelines (with Jenkins)
 - Exercises
 - Workshop: CI & CD
 - Programming in Python
 - Exercises

February 2023

- Week 4
 - Introduction to Webservice architecture
 - Python Webservice Framework
 - Exercises
 - Workshop: Build WebService
 - Workshop: WebService Unit Testing + API Testing

Week 5

- Workshop:
Involves the use of entire set of skills learned so far. For a given a problem statement expected to design, develop and test solution. This was under the guidance of team mentors.
- Workshop review + fixes
- Week 6
 - Introduction to AWS Services
- Week 7
 - Workshop project manual deployment to AWS
 - Infrastructure as Code
 - Workshop project automated deployment on AWS

MARCH 2023

- Week 8
 - Teams demo project To Head of Training
- Week 9
 - Preparation for ISTQB Certification Exam
 - ISTQB Certification Exam
- Week 10
 - Self-learning about C# , WPF
- Week 11
 - Change Test cases for client project

APRIL 2023

- Week 12 – 13
 - Bug fix in useMango app: The scripted components are neither sorted by date nor by name
- Week 14-15
 - Ruby upgrade testing
 - Change test cases for client project to test with upgraded ruby

MAY 2023

- Week 16
 - Bug fix in useMango app: Web-SelectSingle component does not work when select is done by index and value
 - Tested bug fixed by other developers
- Week 17
 - Bug fix in useMango app: Web-WaitForElement fails if no timeout value is passed with New Ruby
- Week 18
 - Bug fix in useMango app: Screenshots in the test execution report that are taken when a step fails are zoomed in

- Week 19
 - Bug fix in useMango app: Unable to delete scripted components that not used

June 2023

- Week 20
 - Testing all standard SAP components with ruby 3.0.4
- Week 21
 - Training on consultancy skill and Project management

My Reflections / Experiences of Internship

My internship at Infuse Consulting has been an amazing experience, I had the opportunity to face new challenges and grow both personally and professionally. The company's culture of continuous learning and development provided an enriching experience.

One aspect that stood out during my internship was the supportive environment. I never felt alone, as I had access to a network of colleagues who were always willing to help and guide me. This created an atmosphere where I could freely ask questions, seek advice, and collaborate with others. The team's willingness to support me greatly contributed to my learning and growth.

Working on product development exposed me to various aspects of software development, including clean code architecture and improving coding skills. This hands-on experience allowed me to deepen my understanding of software development principles and refine my coding abilities.

Each day at Infuse Consulting was filled with excitement and learning opportunities. I embraced the chance to try new things, expand my knowledge, and contribute to the company's projects. The dynamic nature of the work kept me engaged and motivated throughout my internship.

In conclusion, I am grateful for the incredible experience I had during my internship at Infuse Consulting. The knowledge I gained, the skills I developed, and the supportive environment all contributed to my personal and professional growth. I extend my sincere appreciation to the entire team for their guidance and support throughout this journey.

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