Report on Internship

At

Cochin Shipyard Limited



Master of Computer Applications

(2023-2025)

Submitted by

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**ABSTRACT**

Cochin Shipyard Limited is one of the largest shipbuilding and maintenance facilities in India. Located in Kochi, Kerala, it was established in the year 1972 as a government-owned company under the Ministry of Shipping, Government of India. Initially, it was primarily focused on ship repair and gradually expanded into shipbuilding. Cochin Shipyard is known for its commitment to quality and safety standards. It follows international best practices in shipbuilding and repair, ensuring reliable and durable vessels. The shipyard also focuses on training and skill development programs for its employees and offers training to marine engineering students through its training institute.

During my internship at Cochin Shipyard Limited's Information Systems Department (ISD), I had the opportunity to work on two significant automation projects using leading robotic process automation (RPA) platforms. The first project involved leveraging OpenRPA to develop a task bot that automated the processing of Excel invoices. This bot efficiently extracted data, generated daily reports, and seamlessly emailed them to the respective manager, streamlining the invoicing process and enhancing reporting accuracy.

In the second project, I utilized UiPath's capabilities to design an intelligent bot focused on automating the conversion of PDF invoices into Excel format. This intelligent bot incorporated advanced data extraction techniques, allowing for precise and error-free invoice processing. The automation of PDF-to-Excel conversions significantly reduced manual effort and improved workflow efficiency within the organization.

Alongside project work, I gained invaluable insights into the functioning of ISD departments, their various web applications, intranet, servers, and data centers. I witnessed firsthand how ISD collaborates with departments across the organization to streamline processes, improve efficiency, and enhance overall business operations.

My internship at ISD was a transformative experience that not only allowed me to apply cutting-edge RPA technologies but also provided me with insights into the seamless integration of IT solutions across departments within a dynamic organization like Cochin Shipyard Limited.

**TABLE OF CONTENTS**

[CHAPTER-1 INTRODUCTION 1](#_Toc161270175)

[**1.1 INTRODUCTION** 1](#_Toc161270176)

[**1.2 ORGANIZATION PROFILE** 1](#_Toc161270177)

[CHAPTER-2 METHODS AND DISCUSSION 4](#_Toc161270188)

[**2.1 WORK 1 - LeftWord** 4](#_Toc161270189)

[**2.1.1 METHODOLOGY** 4](#_Toc161270190)

[**2.1.2 DESIGN AND DEVELOPMENT** 4](#_Toc161270191)

[**2.1.3 FINDINGS AND RESULT** 7](#_Toc161270192)

[**2.1.4 OBJECTIVES ACHIEVED** 9](#_Toc161270193)

[**2.2 WORK 2 – Al Khateeb** 10](#_Toc161270194)

[**2.2.1 METHODOLOGY** 10](#_Toc161270195)

[**2.2.2 DESIGN AND DEVELOPMENT** 10](#_Toc161270196)

[**2.2.3 FINDINGS AND RESULT** 12](#_Toc161270197)

[**2.2.4 OBJECTIVES ACHIEVED** 15](#_Toc161270198)

[CHAPTER-3 SUMMARY 15](#_Toc161270199)

[**3.1 CHALLENGES** 15](#_Toc161270200)

[**3.2 SCOPE FOR FUTURE ENHANCEMENTS** 15](#_Toc161270201)

[**3.3 CONCLUSIONS** 16](#_Toc161270202)

[BIBLIOGRAPHY 17](#_Toc161270203)

[WEEKLY OVERVIEW 18](#_Toc161270204)

**Chapter-1**

**Introduction**

**WEEKLY OVERVIEW**

|  |  |  |  |
| --- | --- | --- | --- |
| **WEEK** | **DAY** | **DATE** | **DESCRIPTION OF WORK** |
| Week 1 | 1 | 22/04/2024 | Introduction to the organization, Introduction to METI, Safety Class |
| Week 1 | 2 | 23/04/2024 | Introduction to ISD, its structure and working |
| Week 1 | 3 | 24/04/2024 | Introduction and a session on Robotic Process Automation and OpenRPA.  Installation of OpenRPA. |
| Week 1 | 4 | 25/04/2024 | Project 1 assigned. Read data from a excel file and assign to another excel file. Started with basics of OpenRPA and read data from excel file and displayed to output console. Creation and usage of variables.  READ EXCEL, READ CELL, READ RANGE, WRITE LINE |
| Week 2 | 5 | 29/04/2024 | Successfully extracted the data from input excel invoices and write into output excel.  FOR EACH, READ CELL, WRITE CELL, SELECT FOLDER, SELECT FILE |
| Week 2 | 6 | 30/04/2024 | Creation of new Workflow, implementation of features like saving and closing all the opened excel files, saving the output file(report file) with current date.  Calculated the total amount and total tax amount and SL no in the output excel  ASSIGN, INVOKE CODE (PowerShell for saving file with current date), CLOSE WORKBOOK |
| Week 2 | 7 | 02/05/2024 | Added extra feature to save and close the output excel and display a prompt saying the file saved at “path”. Give OK/CANCEL to open the saved excel.  SHOW NOTIFICATION, INVOKE CODE (PowerShell) |
| Week 2 | 8 | 03/05/2024 | Work 2 assigned. Introduction to UiPAth. Installation of UiPath. |
| Week 2 | 9 | 04/05/2024 | Creation of new custom print format.  Editing of print format.  Addition of custom HTML in the format. |
| Week 3 | 10 | 06/05/2024 | Exporting of reports in various formats.  Creation of report using Report Builder, Query Report, Script Report. |
| Week 3 | 11 | 07/05/2024 | Creation of new Web Forms.  Integrating each web forms with corresponding DocTypes.  Publishing of webforms.  Addition of client-side scripting in the web forms. |
| Week 3 | 12 | 08/05/2024 | Started development of a new Demo Project (Electronics repair shop).  Creation of all necessary DocTypes.  Establishment of connection between these DoctTypes.  Population of DocTypes with corresponding data.  Creation of 2 new users and set their roles. |
| Week 3 | 13 | 09/05/2024 | Setting up workflow of request doctype.  Workflow of request doctype’s all users were set.  Definition of each state and transitional rules. |
| Week 3 | 14 | 10/05/2024 | Creation of new page and implementation of client-side scripting in the page.  Rendering HTML templates to a page, customizing and addition of custom CSS. |
| Week 3 | 15 | 11/05/2024 | Creation of new web page, customization by adding new sections like Hero section, Slideshow section, etc.  Setting that web page as homepage. |