“ Robotic Process Automation”

MINI PROJECT – II

SYNOPSIS

Department of Computer Science & Application

Institute of Engineering & Technology

SUBMITTED TO: -

Dr. Sumit Nagar

SUBMITTED BY: -

Aditya Arora(201500034)

Contents

Acknowledgement

It gives us immense pleasure to present the synopsis of our mini project undertaken during out III year of B.Tech. This project is an amalgamation of the hard work, knowledge and dedication put in by us and our mentor, Dr. Sumit Nagar. he helped us in every possible way to accomplish this constructive goal of ours.

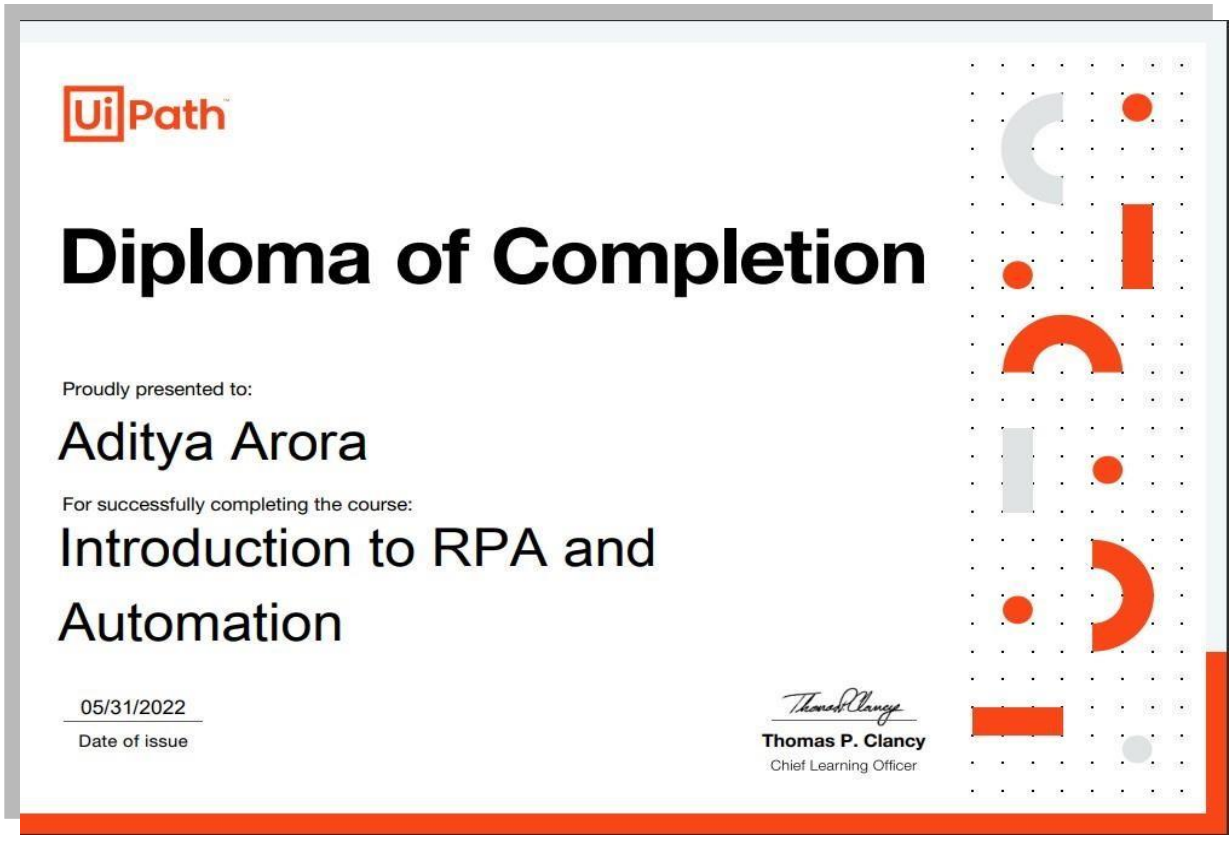
His sincerity, thoroughness and perseverance has been a constant source of inspiration for us. We believe that he will shower us with all his extensively experienced ideas and insightful comments at different stages of the project & also taught us about the latest industry-oriented technologies. We also do not like miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind guidance and cooperation.

We shall remain highly obliged to all the people who helped us in every possible way.

ABSTRACT

The goal of this project was to evaluate the implementation of RPA and lean principles in order to improve and automate webpages worldwide. Its processes and infrastructure, described later in the report, were assessed to determine which specific process would be analyzed for RPA implementation. In the current processes, by considering implementing RPA aim to increase efficiency and reduce costs. This includes an in depth analysis of the project's feasibility as well as a projected timeline for what the project's implementation would look like. There were three main objectives in order to achieve the overarching goal. These included evaluating and assessing current systems and processes, developing an action plan and timeline for what RPA implementation would look like and what changes would be necessary. Additionally, we included recommendations and next steps for the company.

Certification



UiPath

Diploma of Completion

Proudly presented to:

Aditya Arora

For successfully completing the course:

Introduction to RPA and Automation

05/31/2022

Date of issue

Thomas P. Clancy

Chief Learning Officer

INTRODUCTION

Robotic Process Automation can be easily confused with physical robots; however, this does not hold true. RPA is a variety of software's that has the ability to interact with multiple applications in a computer. It can be programmed to complete basic tasks typically performed by an employee. RPA is considered a type of robot, used to automate repetitive tasks. It can automate activities as simple as generating an automatic response for specific emails, to performing financial tasks such as performing bank statement reconciliations**. RPA tools perform logic [if, then, else] statements on structured data (data in a predetermined format, such as a configured excel sheet),** following an established set of steps. By doing so, it can interact with different computer applications and accomplish activities such as extracting data from a browser and inputting it in a desktop app, clicking or typing where and when indicated.

Here ex. ***BOT checks the previous history of the product on any shopping site and tells the lowest ever price and maximum ever price so that you can buy fair product.***

RPA is ideal for processes, in which employees take inputs from a particular system, such as an email or an Enterprise resource planning (ERP) system. Those inputs can then be modified to follow specific rules and can be recoded as outputs into another system and can be replicated to be performed by BOT to reduce manual labour and increase Efficirency.

SOFTWARE AND HARDWARE REQUIREMENTS

- UI-path studio
- VS code
- Web Extensions
- Task capture
- Jira, Ingest
- Adobe Experience Manager
- Test System
- PDD

PROJECT DESCRIPTION

Typically, the first step on the RPA development phase is to write a document that describes the process from beginning to end. In this document, all the needed requirements for automation are clearly specified. The document should also include a detailed description of every step of the process, such as **explaining how the process is currently done manually and describing the logic of every step**, as shown in the as-is model. **As a result, the RPA developer understands the process thoroughly in order to program the robot to accomplish it.**

In order to show the steps of the manual process (As-Is Model), as well as the different steps of the process after RPA implementation (To-Be Model). Besides showing the order of steps, these models will also describe the involvement of the different actors in the process, whether it's the secretary, the engineer, or even the RPA. Once these models are done, to get their confirmation that the models are accurate. Once the client signs off the document, he/she is confirming that the models are accurate, and that the process is ready for the development phase.
As previously mentioned, the it rely on UiPath's RPA Timeline when developing this RPA project . In order to do so, I completed the UiPath Automatin course, which is offered in the UiPath Academy website. In this course, the different steps of an RPA project are described thoroughly, and recommendations are given on how to approach different types of projects.

WORKING Technical Feasibility

The technical feasibility allows us to answer the question “Can we build it?”. The analysis is based on the capability of the company to support the technology necessary for the implementation of the project. With that said, It is considered a partially computerized company.

It can be problem in the future due to updates. Despite that, the company has the equipment necessary for the implementation of the project; however, they do not utilize the technology in its full capacity. The reason behind it is difficult to train employees to accomplish the tasks digitally; therefore, they prefer that the employees manually complete the process. This suggests that the company’s employees may have less familiarity with systems and computers. It might take a small period of time for the employees to adapt to both application and technology. On the other hand, the only system that has to be integrated with the RPA, making the compatibility of the new system with the old essential. Low familiarity means no basic knowledge, medium familiarity somewhat knowledge and high familiarity good knowledge.

REFERENCES;

Websites:

- www.google.com www.geeksforgeeks.com
- www.w3schools.com
- www.github.com
- www.betalabs.com

Faculty Guidelines:

Dr. Sumit Nagar

GitHub Repository link:

https://Aditya.arora13.github.io/Mini-Project2/