Introduction to Robotic Process Automation

KNOW WITH ME BOT-MEDICINE AND DISEASE INFO GENERATOR

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Abstract

As we know there are different types of diseases spread across this world and there is a vast list of medicines for treating it. Many people especially elderly ones do not know about these diseases and their treatment ways. To solve this problem “KNOW WITH ME BOT” is used. In this bot the user will either choose medicine or disease as per their requirements and the necessary information will be scrapped for the input and stored in a notepad or word document. Then the saved notepad or word will be sent to the users email id. By using this bot we can gather information’s about various diseases and medicines all around this world in their own regional language and we can save and send it for future references.This bot not only useful for elderly ones but also for adults and especially homemakers as they can come to know what symptoms will be observed and which medicine to be preferred for basic diseases like common cold, fever, stomach pain etc. Not only that this bot can also be generate data in their own regional language such that it will be useful for the people who doesn’t know english.

Need for the Proposed System

- The proposed system will help the people to know about the disease and medicine all around the world.
- People able to easily access the bot as we can generate the content in our own regional language.
- With the mailing option the data can be transferred to any person for future reference.

Advantages of the Proposed System

- It helps the people to know about various diseases and medicines without referring different websites.
- The data's will be extracted based on certain parameters.
- The bot can fetch the data in their own regional language.
- It stores the data in a notepad for future reference.

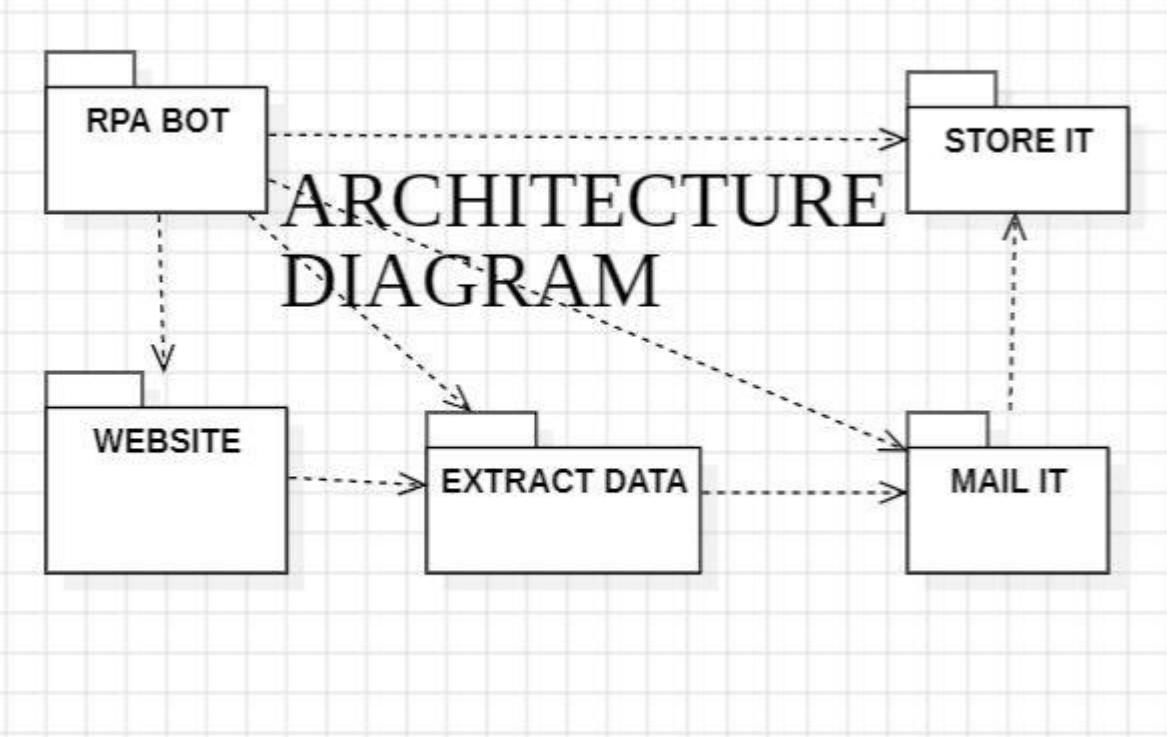
Literature Survey

The development of a medicine and disease information generator highlights a burgeoning interest in leveraging automation for healthcare data management. Existing studies underscore UiPath's potential in automating data extraction from diverse medical sources, including databases, websites, and APIs. These investigations showcase the effectiveness of UiPath's web scraping capabilities in harvesting structured medicine details (e.g., names, uses, dosages) and disease information (e.g., symptoms, treatments) from disparate sources. Moreover, the literature identifies UiPath's workflow functionalities as instrumental in streamlining the processing of extracted medical data, enabling its organization into coherent formats suitable for generating informative content. Studies emphasize the importance of UiPath's role in expediting the synthesis of comprehensive and accurate medical information, enhancing accessibility for healthcare professionals and patients alike.Furthermore, the literature review highlights the significance of UiPath's automation capabilities in revolutionizing medical data management. Researchers showcase UiPath's integration with text analysis tools as pivotal in crafting informative paragraphs or summaries elucidating medicine attributes and disease specifics.

Main Objective

- The main objectives of this Bot using UiPath encompass enhancing healthcare services, automating data retrieval, and providing accurate medical information. The bot strives to collect, analyze, and organize medical information from diverse sources, ensuring accuracy and reliability. It aims to access updated data on medications, treatments, and medical research, empowering healthcare professionals with the latest information necessary for informed decision-making.
- Secondly, the bot aims to facilitate seamless communication among healthcare professionals, patients, and caregivers by generating timely alerts, reminders, and notifications related to appointments, medication schedules, or health-related updates.Moreover, the bot aims to assist in patient education by providing accurate and easily understandable medical information. It intends to answer queries, offer guidance on general health topics, and disseminate critical information about diseases, symptoms, treatments, and preventive measures.
- Ultimately, this Bot aspires to revolutionize healthcare delivery by amalgamating technological advancements with medical expertise, improving accessibility, efficiency, and accuracy in information dissemination and patient care through UiPath automation.

Architecture



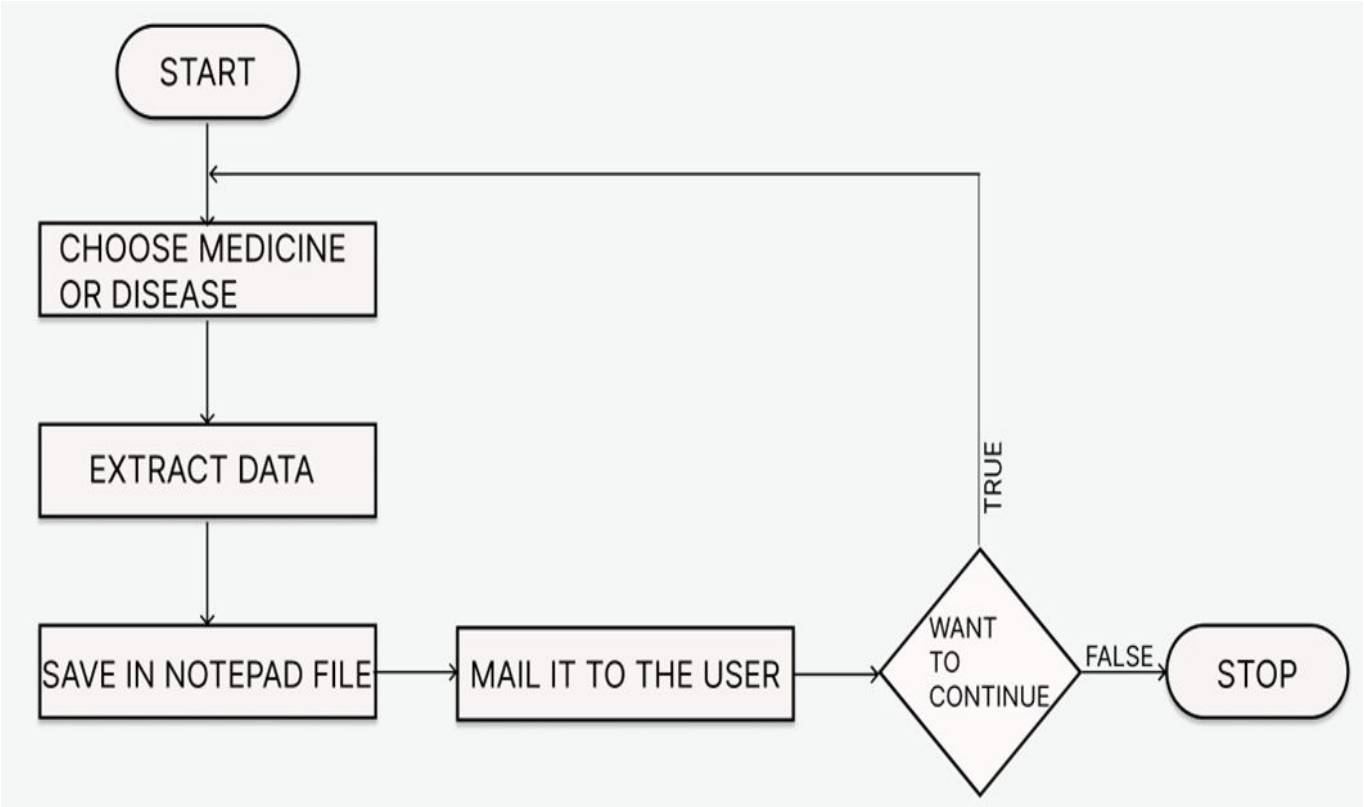
System Requirements

- Hardware
  - Processor – Intel Core i3
  - RAM – 4 GB RAM
  - Hard Disk – 256 GB
- Software
  - UiPath Studio
  - Notepad
  - Search Engine

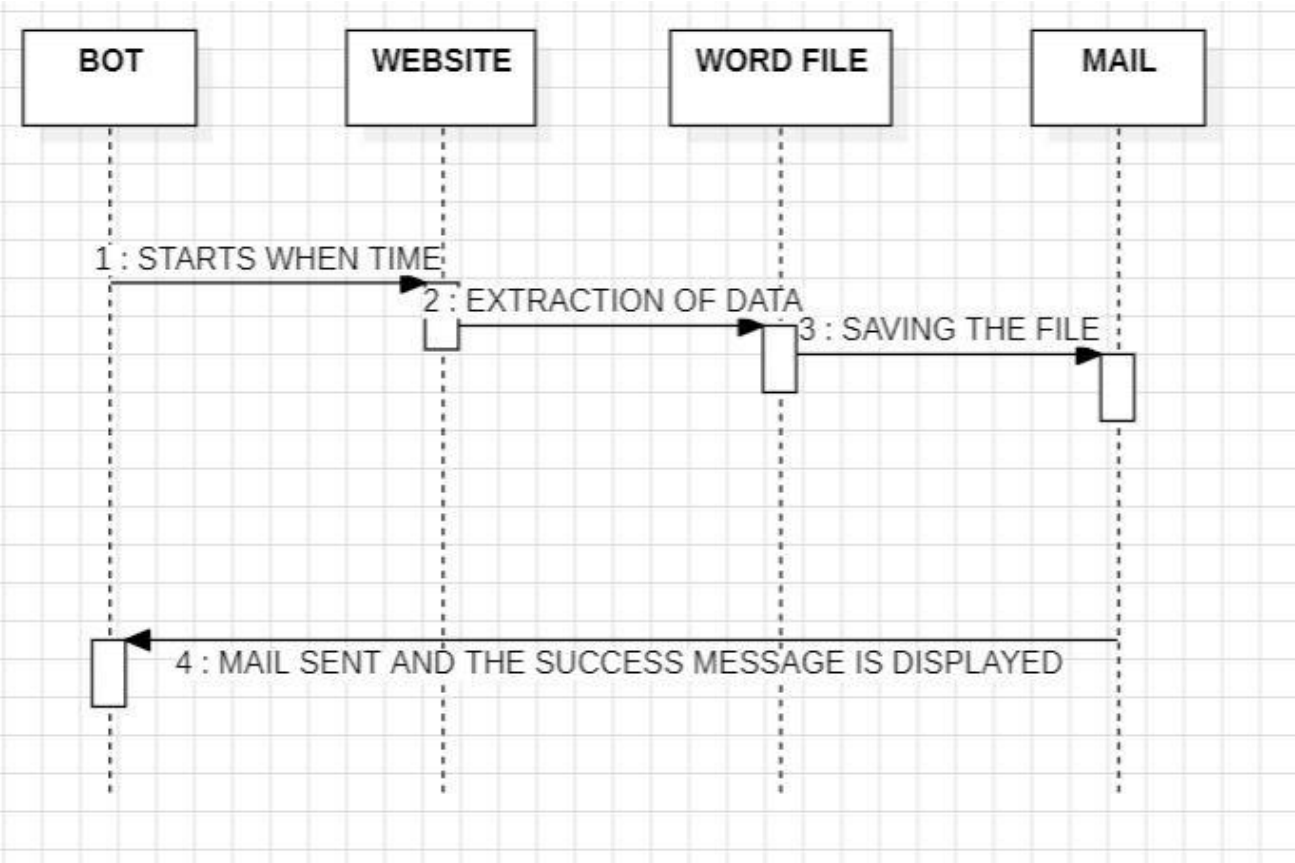
Functional Description

The Know with me bot which is a disease and medicine information bot first collect the input from the user- whether the user want to know about a medicine or disease. Once select the user need to enter the language preferred in which the data's being extracted. Then based on the input, certain parameters will be collected for extracting the data. Once the parameters are collected the data are extracted for the input based on the parameters in the language they prefer. Once all the data's are collected they are stored in a notepad file in a readable and understandable format. Then the notepad will be saved in the name of the input (either medicine or disease). Then the bot will collect the mail id from the user to which the notepad need to be send.Offering comprehensive medical information, the bot responds to inquiries, educates patients on various health topics, and provides guidance on diseases, symptoms, treatments, and preventive measures.With its ability to support decision-making by presenting the latest data and insights, this UiPath-driven bot optimizes workflows, integrates seamlessly with existing systems, and enhances overall operational efficiency, marking a significant leap forward in healthcare accessibility and information dissemination for professionals and patients alike.

Functional Description



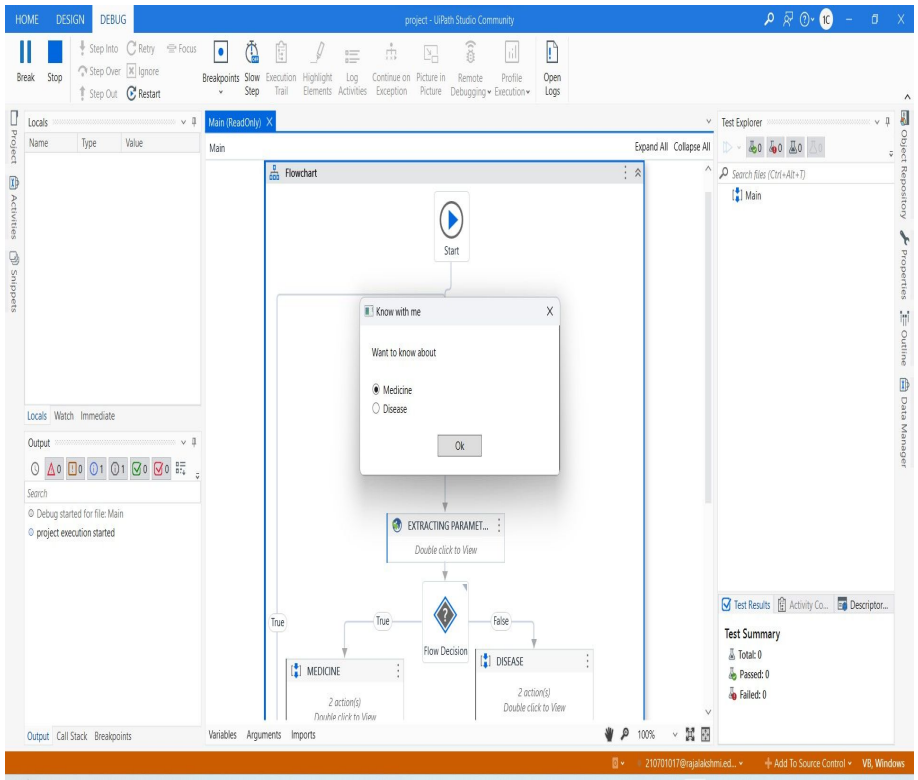
Process Design

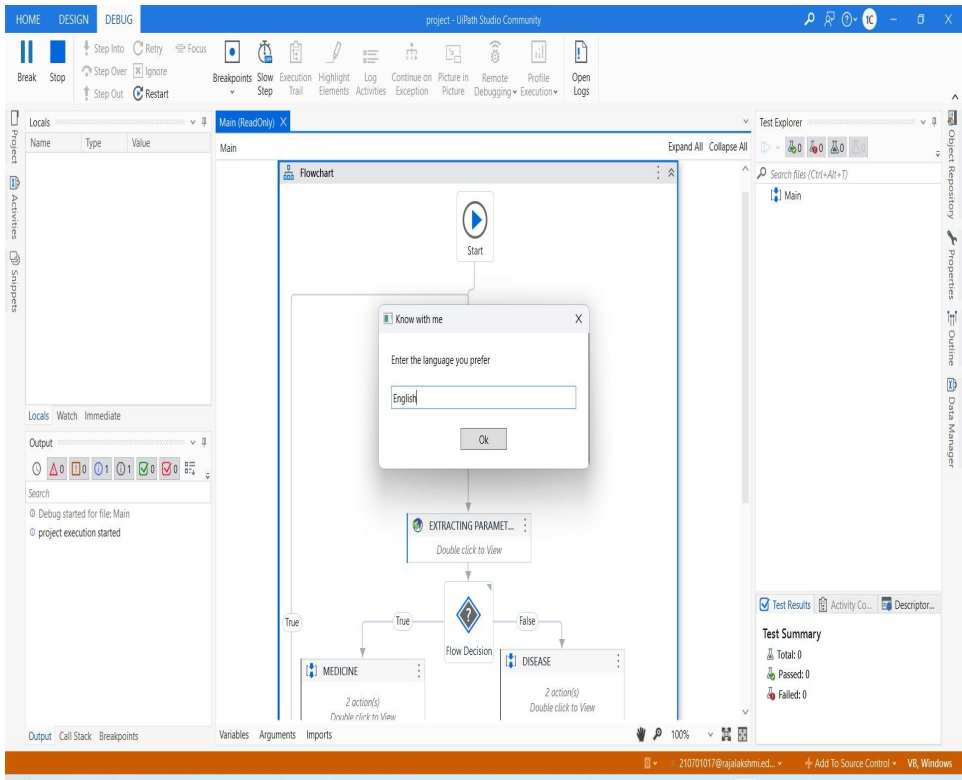


Implementation Module 1

It first collect the input from the user- either medicine or disease.

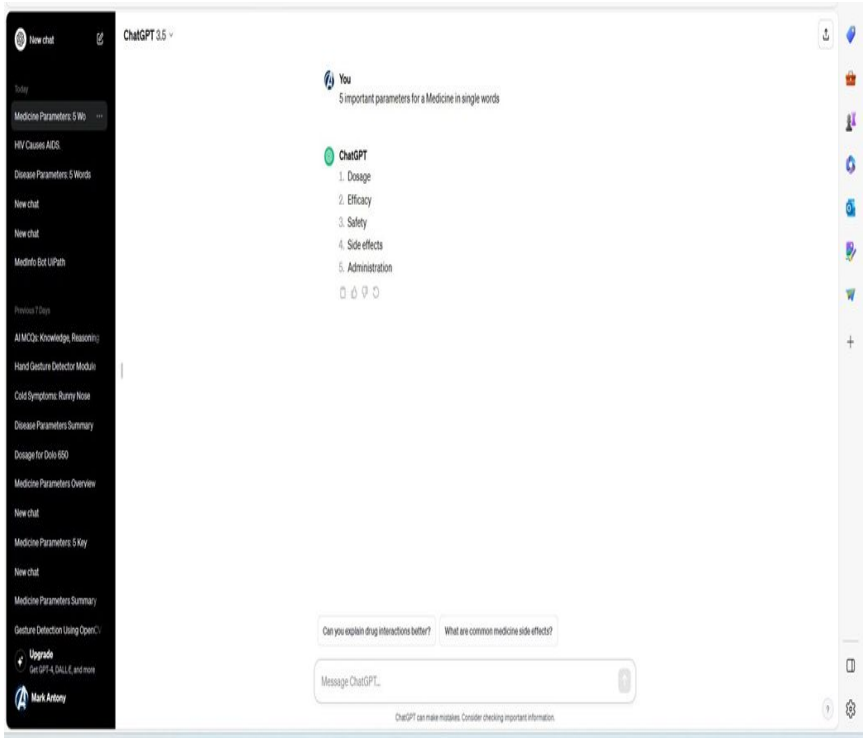
It will also collect the language the user prefer.

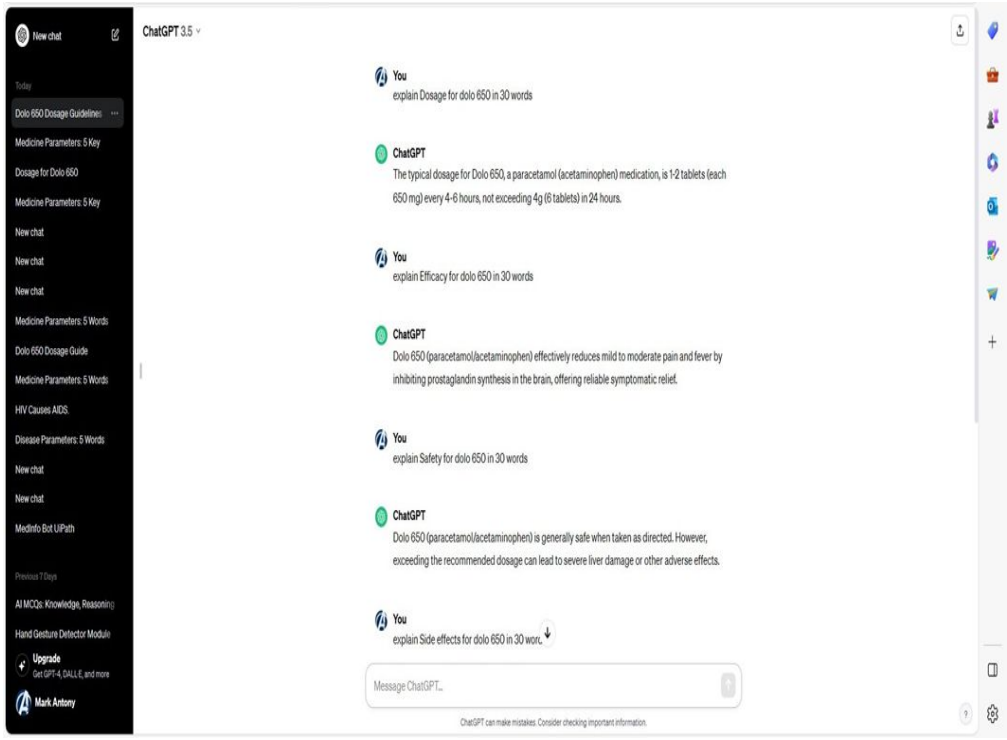




Implementation Module 2

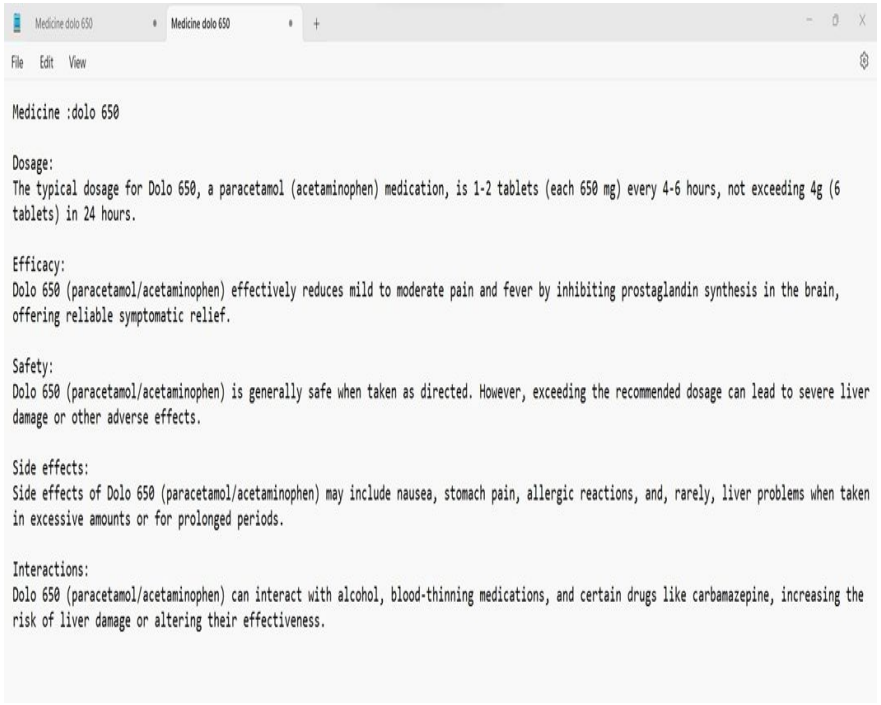
Then it collects the parameters and corresponding data's for it.

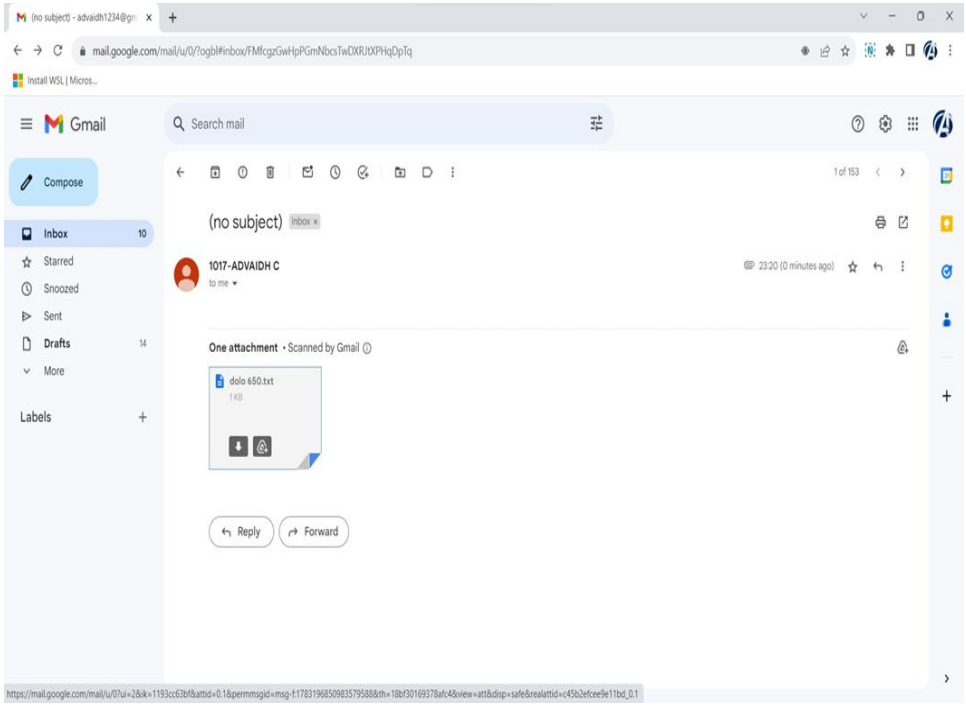




Implementation Module 3

Now the collected data is saved in a notepad and send through the mail.





Conclusions

In conclusion, the literature on medicine and disease information generators for RPA bots reflects a comprehensive understanding of the challenges inherent in the dynamic landscape of robotic process automation. The research illuminates the significance of creating problem generators that authentically replicate the intricacies of real-world scenarios, encompassing issues ranging from data inconsistencies to the adaptability required in dynamic environments. The collective insights emphasize the pivotal role of these generators as indispensable tools for testing, training, and refining RPA solutions. As organizations strive for increased efficiency and reliability in their automation endeavors, the literature review underscores the evolving nature of RPA and the need for problem generators that evolve in tandem. The synthesis of knowledge from diverse sources provides a roadmap for the development of sophisticated problem generators, contributing to the maturation of RPA technologies. Ultimately, the literature on medicine and disease information generators for RPA bots serves as a catalyst for innovation, guiding practitioners and researchers toward solutions that can navigate the complex and ever-changing landscape of programming language processes.

Future Enhancement

- In future not only textual informations but also images and videos related to the disease or medicine will be transferred along with the data
- In future the data will be transferred in various format and through various modes.
- It will be enhanced has the pure mundane process.

References

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- https://chat.openai.com/
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- www.cloud.uipath.com
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Queries

Demonstration

Thank You