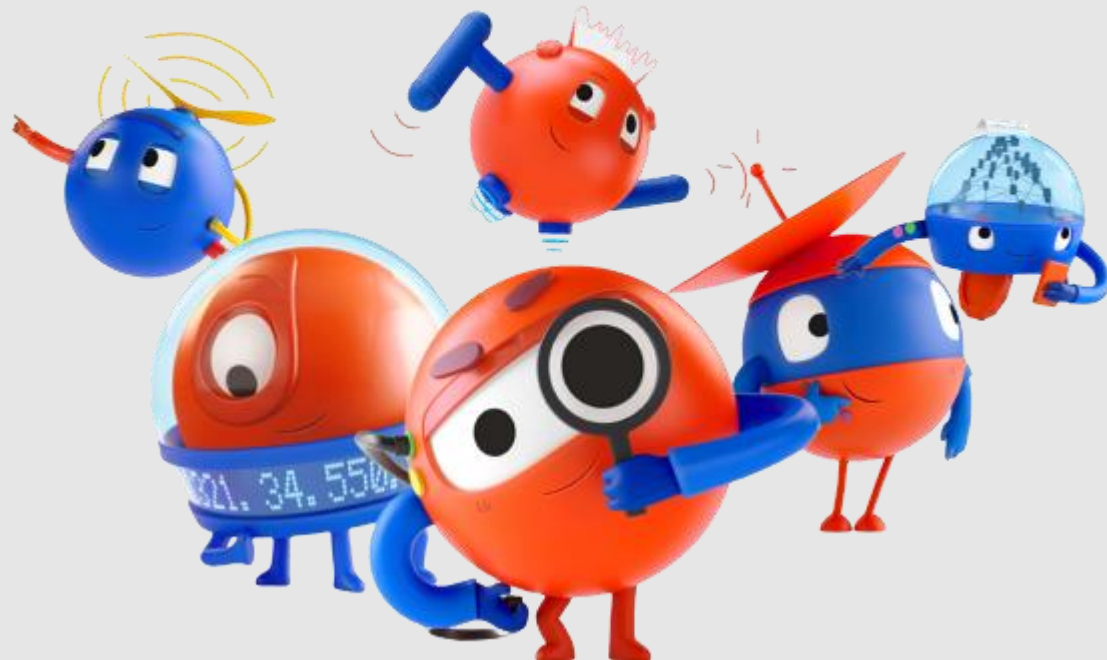


UIPATH CITIZEN DEVELOPER USE CASE COMPETITION

PROJECT SUBMISSION



STUDENT NAME: KEERTHANA J

DEPARTMENT: COMPUTER SCIENCE & ENGINEERING

COLLEGE NAME: RAJALAKSHMI ENGINEERING COLLEGE

TOTAL NO. OF BOTS BUILT: 4



A bot to extract the Handwritten text by using the UiPath's Optical Character Recognition

Introduction

- Handwritten forms are being used at various places for collecting the user's information.
- The data collected from the forms must be updated into the database manually.
- My project automates this process.
- The image of the handwritten forms will be uploaded and the data extraction will be done by the UiPath's OCR Activity.
- After data extraction, it is being stored in the database(Microsoft SQL Server).
- The important pdfs will be sent to the registered mail IDs as a part of Mail Automation.

Problem statement

- The manual entry of details from handwritten forms into digital systems poses challenges that hinder efficiency, accuracy, and resource allocation.
- This process is time-consuming, error-prone, and requires significant human effort.
- As organizations strive to modernize their data management, addressing these issues becomes crucial to streamline operations and ensure data integrity.
- Some of the problems include: **Time consumption, Human error, Resource Intensiveness, Scalability Issues and Data Security and Privacy**



BOT 1: OCR BOT

A bot to extract the Handwritten text by using the UiPath's Optical Character Recognition

Target Market

- **Healthcare:** Medical facilities, clinics, and hospitals that rely on patient intake forms, medical records, and prescriptions.
- **Education:** Schools, colleges, and universities that process admission forms, exam papers, and student records.
- **Government and Public Sector:** Government agencies dealing with various forms, applications, and permits.
- **Finance and Banking:** Financial institutions processing loan applications, account opening forms, and handwritten checks.
- Some other includes Retail, Real estates, Event management, service providers etc.

Tech Stack

- UI Automation
- OCR Automation
- Excel Automation
- Mail Automation
- File Automation
- Database Automation



Impact of the Idea

- It has a significant impact on various aspects of data processing, efficiency, and decision-making. Some Key impacts are:
 - **Increased Efficiency**
 - **Reduced Human Error**
 - **Enhanced Data Accuracy**
 - **Cost Savings**
 - **Scalability**
 - **Improved Data Accessibility**
 - **Data Integration**
 - **Flexibility with Formats**
 - **Faster Reporting and Analysis**



BOT 2: CERTIFICATE GENERATOR

A bot to generate certificates and send them via mail to the respective candidates

Introduction

- Many technical events, symposiums, and workshops are being conducted nowadays and many students are participating in the same.
- After every event, certificates must be provided to the participants.
- If the count of attendees is large, then it becomes a tedious process for us to generate and send the certificates manually.
- So here is the certificate generator bot which enables us to generate and send the certificates to a large number of attendees in a short period of time.
- The certificates are being sent via mail.

Problem statement

- The manual process of creating certificates for various events, achievements, and qualifications can be time-consuming, error-prone, and resource-intensive.
- Organizations and individuals often struggle with designing, customizing, and distributing certificates efficiently, leading to frustration, delays, and subpar outcomes.
- Addressing these challenges is essential to enhance the quality and effectiveness of certificate issuance.
- Some of the problems include: **Time Consumption, Design Consistency, Data Entry Errors, Customization Complexity, Scalability Issues**



BOT 2: CERTIFICATE GENERATOR

A bot to generate certificates and send them via mail to the respective candidates

Target Market

- **Education Institutions:** Schools, colleges, and universities that issue certificates for academic achievements, graduation, workshops, and seminars.
- **Corporate Sector:** Corporations organize employee training, workshops, and recognition events that require certificates.
- **Event Management:** Event organizers of conferences, seminars, workshops, and exhibitions who need to provide certificates to attendees and participants.
- **Online Learning Platforms:** E-learning platforms need certificates for course completions and achievements.

Tech Stack

- Mail Automation
- Ppt Automation
- UI Automation
- File Automation
- Excel Automation



Impact of the Idea

- It has a positive impact on various aspects of certificate issuance and recognition processes.
- **Efficiency and Time Savings:** Faster Certificate Generation , Bulk Generation
- **Accuracy and Consistency:** Error Reduction , Uniform Design
- **Customization and Personalization:** Tailored Certificates, Diverse Templates
- **Resource Optimization:** Resource Reallocation, Reduced Workload
- **Scalability:** Smooth Scaling, High Volume Handling
- **Enhanced User Experience:** User-Friendly Interface, Immediate Access
- **Data Security and Management:** Data Protection, Secure Storage



BOT 3: HIRING STATUS INTIMATION BOT

A bot to intimate the recruitment status
of the candidates

Introduction

- The candidates are not been updates regarding their recruitment status after the interview.
- The Hiring status intimation bot will keep the candidates updated regarding their hiring status.
- In the project, the candidates are informed via mail regarding the status and for the hired candidates the onboarding letter is being sent.
- Calendar invite are being sent to the recruited candidates.



Problem statement

- In the world of recruitment, candidates often face frustration and uncertainty due to the lack of transparent and timely updates on their application status.
- This absence of effective communication during the hiring process not only creates anxiety for candidates but also reflects poorly on an organization's commitment to candidate experience and professionalism.
- Some of the problems include: **Uncertainty and Anxiety, Information Gap, Negative Candidate Experience, Delayed Process, Inconsistent Messaging**



BOT 3: HIRING STATUS INTIMATION BOT

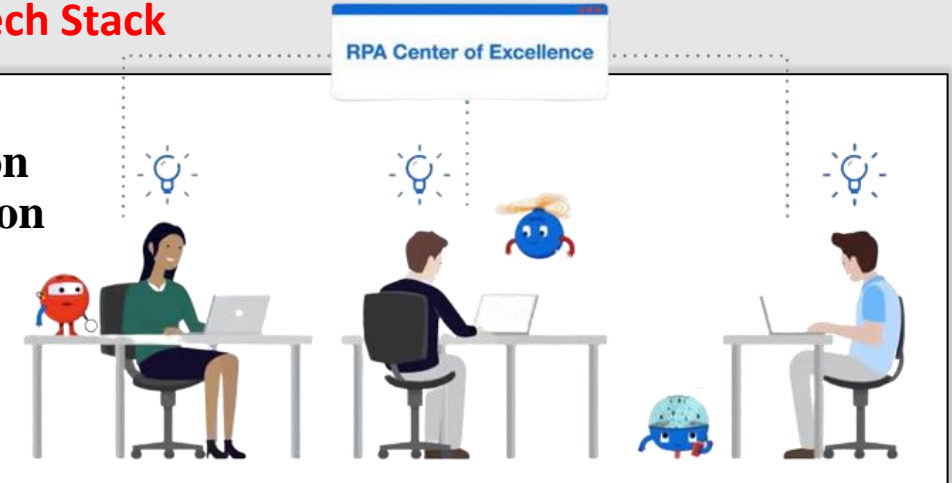
A bot to intimate the recruitment status of the candidates

Target Market

- **Corporate Sector:** Companies of all sizes regularly hire employees for various roles, including entry-level to executive positions.
- **Technology and IT Industry:** Tech companies conduct technical interviews, coding assessments, and skill-based evaluations.
- **Financial Services:** Banks, insurance companies, and investment firms recruit finance professionals, analysts, and auditors.
- **Education Institutions:** Schools, colleges, and universities hiring teaching staff, administrators, and support personnel.
- **Startups:** Emerging startups with limited HR resources that aim to provide a streamlined and efficient candidate experience.

Tech Stack

- **UI Automation**
- **Mail Automation**
- **Excel Automation**



Impact of the Idea

- This bot can have a significant positive impact on various aspects of the recruitment process and the overall candidate experience.
- **Enhanced Candidate Experience:** Transparency, Engagement
- **Efficient Communication:** Automated Notifications, Time Savings
- **Improved HR Efficiency:** Reduced Workload, Focus on Strategy
- **Streamlined Recruitment Process:** Faster Updates, Efficient Interviews
- **Data-Driven Insights:** Candidate Analytics, Process Improvement
- **Cost Savings:** Reduced Communication Costs, Faster Recruitment



BOT 4: GFORM DATA ENTRY BOT

A bot to fill the gform repetitively by extracting the data from excel

Introduction

- Google form allows users to create custom online forms and surveys quickly and easily.
- Google Forms plays a vital role in simplifying data collection, enhancing collaboration, and enabling efficient analysis.
- It is more convenient to use and it has a high stability.
- When we are having a large number of records to be filled in the Google forms, using automation will be quite easier rather than filling all the fields manually.
- So in my project, I am going to extract the data from Excel and update it in the Google form repetitively.

Problem statement

- Many individuals, organizations, researchers and educational institutions struggle with inefficient data collection and management processes due to the absence of a streamlined tool like Google Forms.
- Traditional methods of data collection and analysis involve manual processes that are time-consuming, error-prone, and lack the capabilities for real-time collaboration and analysis.
- The updation of Google forms manually will be a difficult process when more datas are to be processed.
- So an automation is required to save time, accuracy and inefficiency of data.



BOT 4: GFORM DATA ENTRY BOT

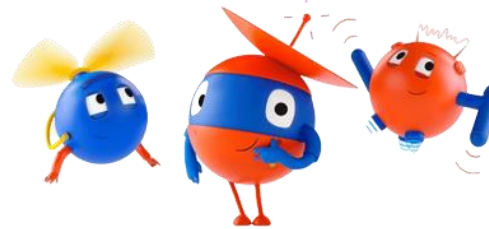
A bot to fill the gform repetitively by extracting the data from excel

Target Market

- **Small and Medium Enterprises:** SMEs often lack dedicated resources for complex data collection and analysis. An automated solution would cater to their need for streamlined processes.
- **Large Corporations:** Large corporations can benefit from centralized data collection and real-time collaboration across departments, improving efficiency and decision-making.
- **Educational Institutions:** Schools, colleges, and universities require efficient survey tools for student feedback, course evaluations, and research data collection.
- **Government Agencies:** Government bodies can use automated forms for citizen engagement, data collection, and public opinion surveys.

Tech Stack

- **Web Automation**
- **Excel Automation**
- **UI Automation**



Impact of the Idea

- The key impacts are:
- **Efficiency and Time Savings:** Automated Data Entry, Quick Response
- **Data Accuracy and Reliability:** Minimized Errors, Consistent Formatting
- **Streamlined Workflows:** Centralized Data, Seamless Integration
- **Real-time Collaboration:** Team Collaboration, Instant Updates
- **Improved Data Analysis:** Automated Reporting, Informed Decisions
- **Scalability and Adaptability:** Scalable Solution, Flexible Configuration



IMPORTANT LINKS

➤ BOT 1 : OCR BOT

- .xaml file: <https://drive.google.com/drive/folders/1aTQiFD2fnN-oz9UluqB-jmd8R9pBo4ih?usp=sharing>
- Video Demo: <https://drive.google.com/file/d/137aCA16MlynNEYF6cx-Ck-2oOPX0pDLY/view?usp=sharing>

➤ BOT 2 : CERTIFICATE GENERATOR

- .xaml file: <https://drive.google.com/drive/folders/1pavvc9RFS-oWE-Gm4ReDdWj2bsJ0x3cy?usp=sharing>
- Video Demo: https://drive.google.com/file/d/17cDXwHIIPSTD5bMC3BSt0w_KkqvEa5-e/view?usp=sharing

➤ BOT 3 : HIRING STATUS INTIMATION BOT

- .xaml file: <https://drive.google.com/drive/folders/12-hQoZQ11RFvroiT-whEHmodKG34Fw5j?usp=sharing>
- Video Demo: <https://drive.google.com/file/d/11kLEAGgYVbo1fzMq11zk4r-TwWVSOvC7/view?usp=sharing>

➤ BOT 4 : GFORM DATA ENTRY BOT

- .xaml file: <https://drive.google.com/drive/folders/1L21YX-102Gz9nqybIwPsA2N0Px0UoVZ3?usp=sharing>
- Video Demo: <https://drive.google.com/file/d/1D7wriLgOzFJbu3w4wUypTKhgHtlUBlj9/view?usp=sharing>

