Project Name: Receipt Intelligence Key Automation (RIKA)

Team Name: Team Kirin

Team Members:

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Project Overview

The Receipt Intelligence Key Automation (RIKA) - A completely new automation solution based on Datamatics TruBot and TruCap+ meant simplifying food/petrol bill receipt processing. Such a system cannot be described by email pot alone. It gets information from the receipt, creates Google Forms, and provides many useful suggestions to the finance team, drastically cutting down manual work and increasing accuracy so that such errors are barely possible.

Abstract

At this point in business dimensions, receipt data entry in a particular field has become a very tedious and untrustworthy exercise, whereas the intent of RIKA, as apparent from its name, is to automate the entire process starting from email sorting to the data entry and notification.

Features of the key innovations in RIKA:

• **Customized learning**: Increases accuracy by adopting the improvements of the finance team and decreasing error committing.

• **Advanced Data Capture:** Has the capability of supporting different image types scans receipts in JPG or PDF and others as well with an advanced TruCap+ identification feature.

• **Integrative Evaluation**: Delivers valuable and analytical information about processing durations, their accuracies, and expenditures on these activities through a combined control system available in the embedded dashboard.

Objective

The only purpose of Receipt Intelligence Key Automation (RIKA) is to find a fully automated solution using Datamatics TruBot and TruCap+ that processes food and petrol bill receipts from emails, extracts large amounts of raw data, and settles Google Forms while informing the finance team.

Detailed Roadmap

1. **Establishing Email Connection:**
- Proper steps should be followed to integrate TruBot with the email server (e.g. Gmail) securely along with suitable authentication steps.
- Perform filtration methods to discover the emails alone including any food or petrol bill receipts.

2. **Receipt Processing:**
- Download Attachments from the Emails using TruBot. It can compress text and images as well as some other formats.
- Configured TruCap+ to capture the important details from the receipts (For example receipt date, receipt number, vendor names, total amounts, and items gets purchased i.e. Food Bill).

3. **Data Entry Automation:**
- Create a Google Forms that will at least need to store the data that is extracted through OCR.
- Use TruBot to automate Google Forms Settlement, where all data fields are extracted and filled correctly without any error.

4. **Notification System:**
- Automate email notifications using TruBot to alert the finance team once data entry is successful with the correct receipt details. The alert will have particular details i.e. For example amount of Rs. 9039/- and Vendor Name

5. **Management of Inaccuracy and its Log:**
- Incorporate strong inaccuracy management within the TruBot scripts to cover such exceptions as download failures or errors in extraction and work out a strategy to resolve them.
- Keep records of all receipts processed and problems faced to be enhanced in the next phases.

6. **Testing and Setup:**
- control the automation's end-to-end testing in a containment area to make sure it is accurate and dependable.
- Schedule the deployment of the exact right solution through phases where initiation of the solution starts with a guide stage aimed at obtaining feedback hence making any modification before total deployment.

Step by Step Instructions on How to run the project:

1. **Environmental Setup:**

Check the system after installing Datamatics TruBot and TruCap+, in the system install the software via relevant installation guides. Email account access and Google Forms access details are for adding the service email in Google Forms.

2. **Deployment:**

Deploy TruBot scripts and TruCap+ Settings in the field. Bots must be set to run at intervals (a minimum of once an hour) or need to be triggered after someone submits an email address as opposed to collecting the data only.

3. **Assessment and Maintenance:**

Based on system performance and accuracy, diligently watch how the system is doing and learn about its accuracy on a day-to-day basis. Of course, the extraction templates in TruCap+ will depend on purpose as receipts change, new ones will be added and if possible, on time go through them and can be updated.

Outcomes:

Businesses and governments use RIKA to get the menial data entry operations off their back and help them save time so that the finance team can operate at a higher level dealing with more tactical questions rather than only being overworked and mentally ill. This project does not only increase operation efficiency but also the accuracy of the data.