

Project Name: Receipt Intelligence Key Automation (RIKA)

Team Name: Ninja-Neurals

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 to simplify the process of food/petrol bill receipt processing. Such system cannot be described by email pot alone. It gets information from the receipt and creates a Google Forms as well as provides many useful suggestions to the finance team, which drastically cuts down manual work and increases accuracy to a level that such errors are barely possible.

Abstract

At this point of business dimensions, receipt data entry in 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 till 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 amount of raw data, and settle a 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 (eg Gmail) securely along with suitable authentication steps.
- Perform filtration methods to discover the emails alone including any food or petrol bill receipts.

2. Reciept Processing:

- Download Attachments from the Emails using TruBot. It is able to 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 notification using TruBot to alert finance team once data entry is successful with correct receipt details. The alert will have particular details i.e. Amount of Rs. 9039/- and Vendor Name

5.Management of Inaccuracy and its Log:

- Incorporate strong inaccuracy management within the TruBot scripts in order 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 of them 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 learning about its accuracy on a day-to-day basis. Of course, the extraction templates in tru Cap+ 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 government control could use this RIKA to get the menial data entry operations off their back, help them save time so that finance team can operate at a higher level dealing with more tactical questions rather than only overworked and mentally ill. This project does not only increase operation efficiency but also accurate the data.

