



InvoiceAi



ACCES
GRANT

InvoiceAi App



Requirement:

Manual extraction of invoice information from PDF files is time-consuming and prone to errors, particularly with a high volume of documents. To address this challenge, our client approached us to automate the extraction process. They required a solution that could extract invoice details from attached PDF files in the emails, eliminating manual data entry. Furthermore, the client emphasized the need for seamless integration with SharePoint and automate data store in Dataverse.

Value Added:

Easy and automated invoice extraction led to substantial time savings, freeing up resources for more valuable tasks.

Elimination of manual data entry reduced the risk of human errors, ensuring accurate and reliable invoice information.

By storing the extracted data in Dataverse, our client achieved a streamlined and synchronized process, with better reporting.

Reduced maintenance costs, eliminated delays in invoice data fetching, and enhanced data visibility across the organization.

Solution Delivered:

We implemented an intelligent algorithm via the InvoiceAi App, that accurately parses PDF files from the emails and extracted essential invoice details.

We implemented a robust data mapping framework – We used Power Automate to precisely mapped the extracted invoice information to the required fields. Moreover, we used AI models for invoice processing and to extract data from 400 different invoices, providing trained AI models for each.

Starting from receiving Invoice PDFs via email and using Power App and Power Automate, we efficiently extracted the data and generated invoices within the App. The PDF file along with the URL gets saved into SharePoint for future reference.

License Required



License Required:

- Power Apps Plan
- MS Office 365 E3
- Power Automate

Technology Used:

- **User Interface:** Model Driven Power App and Canvas App
- **Application Layer:** Power Automate, Power FX, AI Models
- **Database:** Microsoft Dataverse.
- **Programming Language:** HTML.



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Overview

- **App** : InvoiceAi Canvas App and InvoiceAi Model Driven App
- **Roles**: Admin
- **Tool**: Power Automate, Power Apps, SharePoint , AI Model.

This InvoiceAi Canvas App is used to receive invoice PDFs via email, obtain email attachments, read PDF files using **AI Model** and **Power Automate** to create invoices and save their data in Dataverse with links to the SharePoint folders where the invoice PDFs are kept. We used AI models for invoice processing and to extract data from 400 different invoices, providing trained AI models for each.

Dashboard Screen



- The Dashboard screen employs various charts to effectively display data related to invoices and vendors:
- Vendor Invoices Distribution Illustrates the total number of invoices categorized by vendors, providing a clear visual representation of the distribution of invoices among different vendors.
- Vendor Selection: The "Choose Vendor" chart shows the number of invoices or PDF files in the selected vendor list that are ready for further AI processing. This chart aids in identifying vendors with pending invoice extraction.
- Invoices for Validation: The "Invoices to Validate" chart displays the number of invoices that have been processed by the AI and are pending validation by the app admin. This chart ensures that all details are verified and accurate before final approval.

Email Pdf

From

harshit.sharma@cynoteck.com

To

Cc

PDF

 LT55008.pdf
32 KB

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Thanks and regards
Harshit Sharma | Software Consultant |
Cynoteck, India (www.Cynoteck.com)

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- **Invoice Submission:** Vendors send invoice PDFs via email to the company's accountant.

Choose Vendor Screen

Vendor Id

Sender Domain
cynoteck.com

Sender
neetu.rawat@cynoteck.com

Delete Save

Invoice Details:

Quantity	Details	Unit Price	Net Amount	VAT Rate	VAT
3.00	PSI On Vehicle Lifts	60.00	180.00	20.00	36.00
1.00	Consumables and PPE	15.00	15.00	20.00	3.00
1.00	Congestion Charge	15.00	15.00	0.00	0.00

Job sheet - 10117, 11 09 21 Bala Nagar
Inspection of workshop lifts

- Automated Retrieval:**

Whenever a new email with an attached PDF invoice arrives, Power Automate retrieves the invoice attachment from the email and stores it as a PDF file in SharePoint. The invoice record is then reflected with the sender's domain and sender's ID on the Choose Vendor screen in the Canvas app.

- Vendor Selection and Display:**

Clicking on the gallery displays the selected PDF. The relevant vendor ID can then be chosen from a drop-down menu, and clicking "Save" completes the process.

Validate Invoices Screen

Discount	Amount GBP
0.00%	2,750.00
Subtotal	2,750.00
TOTAL VAT 20%	550.00
TOTAL GBP	3,300.00

Due Date: 30 Dec 2022
Payment can be made by BACIS to
Account Number: 7084141
Sort Code: 91-61-11
Account Name: Orion Resource Management Solutions Ltd
Bank: Natwest

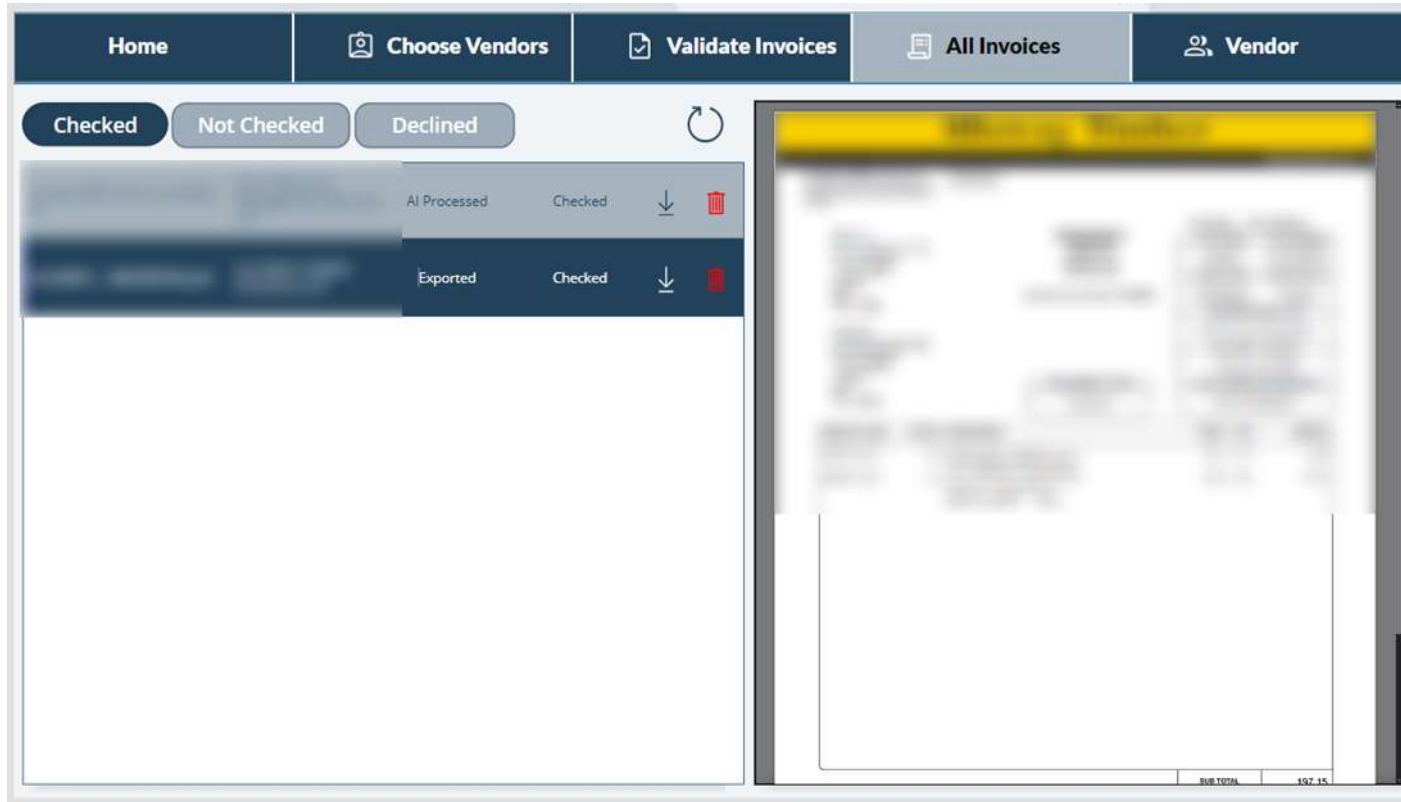
- AI Processing:**

The saved PDF appears on the screen for validating invoices. An AI model, with the help of Power Automate, reads all relevant data from the PDF and auto-populates it into the fields. It then validates all necessary details and marks the status as "Checked" or "Unchecked."

- Data Storage:**

Once validated, the data is saved and stored in Dataverse.

All Invoices Screen



- Status Display:**

The status of each invoice, whether it is checked, unchecked, or declined, is displayed in the gallery of the All Invoices Screen. The checked list includes all invoices that have undergone AI processing and have been exported. The not checked list includes invoices that the app administrator has not reviewed and have not been AI processed.

- Additional Functionalities:**

Users can download or remove selected PDFs from the list in the gallery.

Vendors Screen

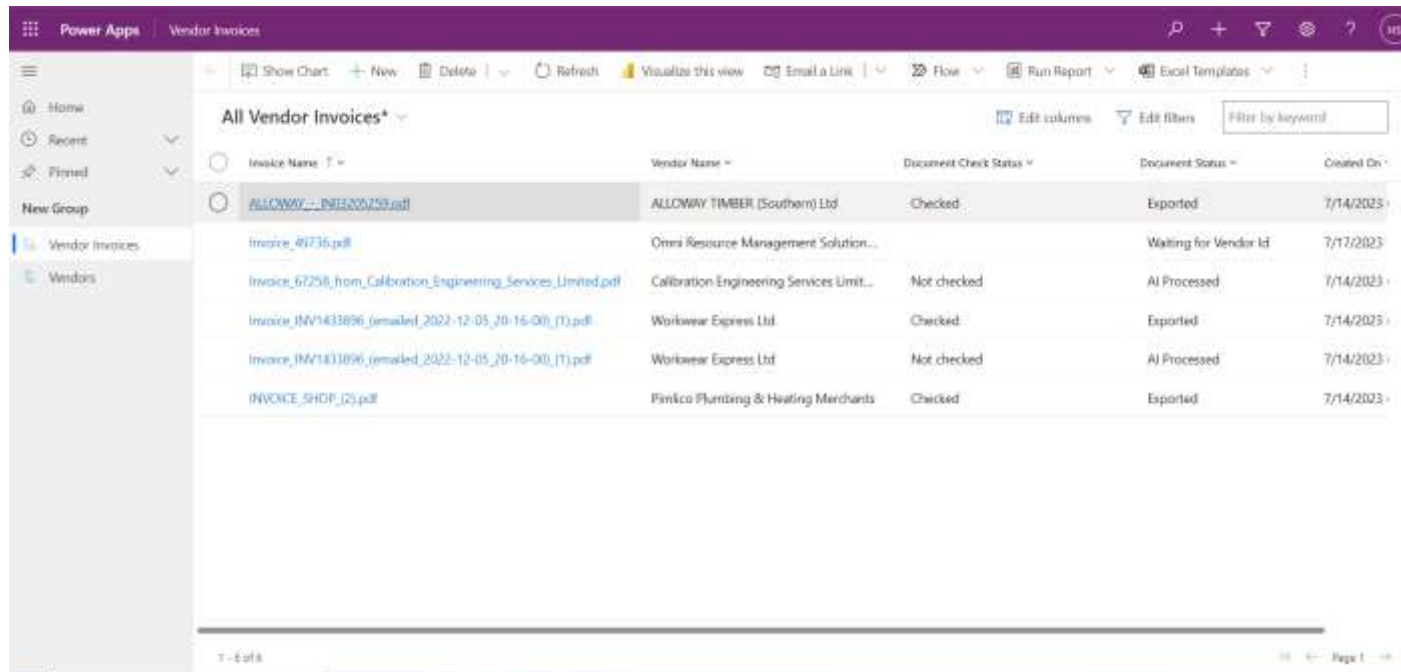
The screenshot displays a web application interface for managing vendors. At the top, a dark blue navigation bar contains five tabs: 'Home', 'Choose Vendors', 'Validate Invoices', 'All Invoices', and 'Vendor'. The 'Vendor' tab is currently selected. On the left side, there is a sidebar with a dark blue header and four light blue buttons, each with a plus icon. The main content area is divided into two sections. The top section is a dark blue header for the 'Add Vendor' form, featuring a plus icon on the right. Below this header, the form contains four input fields arranged in two rows. The first row has 'Vendor Name' and 'Vendor Id' (with the value 'V0001' entered). The second row has 'E-mail' and 'Template Id'. At the bottom of the form, there are three dark blue buttons: 'Save', 'Reset', and 'Delete'.

Add Vendor	
Vendor Name	Vendor Id
	V0001
E-mail	Template Id

Vendor Management

- **Vendors Screen:** This screen allows users to add new vendors and view a list of all currently active vendors. A vendor is essentially a supplier who sells goods or services to the business.

InvoiceAi Model Driven App



The screenshot displays the 'Vendor Invoices' app interface. The top navigation bar includes 'Power Apps' and 'Vendor Invoices'. The left sidebar shows navigation options: Home, Recent, Filtered, New Group, Vendor Invoices (selected), and Vendors. The main content area is titled 'All Vendor Invoices*' and features a table with the following columns: Invoice Name, Vendor Name, Document Check Status, Document Status, and Created On. The table lists six invoices with their respective details.

Invoice Name	Vendor Name	Document Check Status	Document Status	Created On
ALLOWAY_-_INTE202729.pdf	ALLOWAY TIMBER (Southern) Ltd	Checked	Exported	7/14/2023
Invoice_49735.pdf	Omni Resource Management Solution...	Waiting for Vendor Id	Waiting for Vendor Id	7/17/2023
Invoice_67258_from_Calibration_Engineering_Services_Limited.pdf	Calibration Engineering Services Limit...	Not checked	AI Processed	7/14/2023
Invoice_INV1433896_(emailed_2022-12-05_20-16-00)_11.pdf	Workwear Express Ltd	Checked	Exported	7/14/2023
Invoice_INV1433896_(emailed_2022-12-05_20-16-00)_11.pdf	Workwear Express Ltd	Not checked	AI Processed	7/14/2023
INVOICE_SHDP_125.pdf	Pinkco Plumbing & Heating Merchants	Checked	Exported	7/14/2023

- **Model-Driven App Features**
- **Invoice Details and PDF Access:** This model-driven app allows users to view detailed information about each invoice, including the SharePoint URL for the invoice PDF, within the invoice form.
- **Invoice Management:** Each invoice is managed separately, with its status depending on whether the organization's accountant has checked, not checked, or declined it.

Invoice Detail Form

Power Apps | Vendor Invoices

Invoice_67258_from_Calibration_Engineering_Services_Limited.pdf - Saved

Vendor Invoice

General Details Related

Invoice Name Invoice_67258_from_Calibratio...

File URL <https://ynoted665.sharepoint.com/:s/PMSInvoicing/ETHksn8HSDNl-MQ2VWb0lKQ2...>

Power Apps | Vendor Invoices

Invoice_67258_from_Calibration_Engineering_Services_Limited.pdf - Saved

Vendor Invoice

General Details Related

Vendor Name [Redacted]

Vendor Id [Redacted] Limited

Invoice No 67258

Invoice Date 20/06/2022

Invoice Net Amount 210.00

Invoice VAT Amount 39.00

Job Ticket No 56783

File Path /PMS Invoices/Invoice_67258_from_Calibration_Engineering_Services_Limited.pdf

Document Status All Processed

Document Check Status Not checked