

Success Stories

OCR boot development for reading downloaded and scanned documents for FCI

About FCI

Founded in 1985, FCI is one of the largest customs brokers in the Colon Free Zone, a leading company in the logistics industry in Panama with extensive physical infrastructure (buildings, distribution centers, transportation, and equipment) and committed to solutions and practical applications of technology.

It offers integrated services in cargo and logistics management using all modes of transport, organizing our resources to provide a complete door-to-door service without generating headaches for our clients.

Challenge

FCI is an intermediate company, they are a cargo and transportation company. In their day-to-day operations, they handle the load of various clients from departure to destination. Clients always send you a document in a standard format, which is what they present to the ports or customs where all the information about the cargo they carry is located.

That document may contain item information. The documents for each load can have one product or one hundred.

FCI has its own internal platform, they manually insert these documents, which became quite a tedious job, so they decided to automate that process and save several hours manually typing the documents on a daily basis.



Our solution

Rootstack experts immediately got to work. For FCI, a bot with UiPath was created, with the aim of reading the documents generated by clients, which they call settlements. The documents for reading can already come in digital formats for download, or scanned from their physical format.



DECLARACIÓN DE MOVIMIENTO COMERCIAL ELECTRÓNICO - LIQUIDACIÓN

No. 20230103391-0

DIA	MES	AÑO
28	02	2023

LIQUIDACIÓN NÚMERO 20230103391-0
DMCE 1.0 REF NO

CIA. EXPORTADORA		CLAVE	7932	CONTACTO NO	439-8115	TIPO DE VAGÓN	Carga en Bulto
MODO DE TRANSPORTE	Transporte Terrestre	REFERENCIA DE MODO DE TRANSPORTE	TERRESTRE	EMPRESA TRANSPORTADORA		CONOCIMIENTO DE GUÍA O EMBARQUE	TERRESTRE
PAIS DE DESTINO	PANAMA	DESTINATARIO		DIRECCION DEL DESTINATARIO		PANAMA	
PUERTO DE TRANSBORDO		PUERTO DE DESTINO	PANAMA	PUERTO DE SALIDA	LIQUIDACIONES	COMENTARIOS DEL FORMULARIO	S-24-23
INDICADOR DE LIQUIDACIÓN	SI						

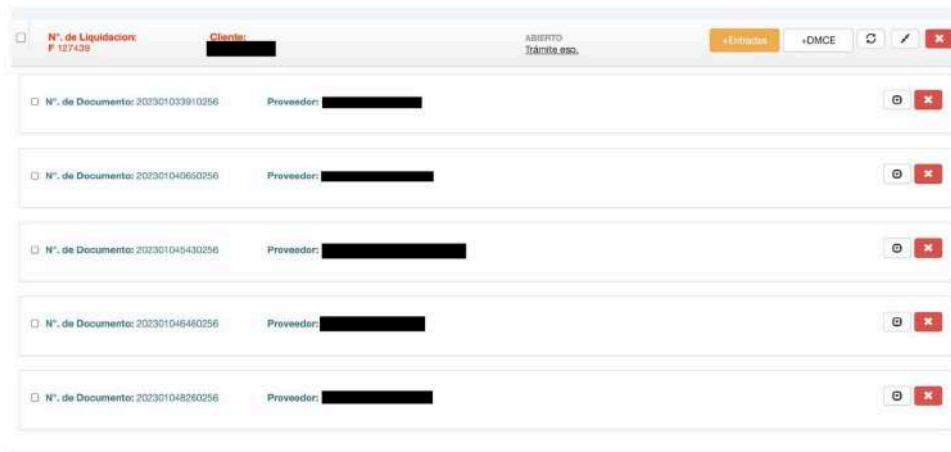
DETALLES DE LOS ARTICULOS

ARANCEL	PRODUCTO	DESCRIPCIÓN	BULTO		UNIDADES			MUESTRA	PESO BRUTO	VALOR DE VENTA	VALOR NETO
			CANTIDAD	TIPO	UDM	UNIDADES SUELTAS	UDM (CANTIDAD)				
84729090000		ENGRAPADORAS,PERFORADPR AS	12	CT	UND	0	742	No	167.92	B/. 981.92	B/. 981.92
48185090000		PAPEL CREPE	100	CT	UND	0	2009	No	465.00	B/. 2,080.00	B/. 2,080.00
35061000000		PEGA LIQUIDA	18	CT	UND	0	1428	No	269.75	B/. 684.00	B/. 684.00
96081000000		BOLIGRAFOS	9	CT	UND	0	1248	No	108.65	B/. 820.32	B/. 820.32
82141010000		SACAPUNTAS	3	CT	UND	0	432	No	16.50	B/. 125.28	B/. 125.28
38249940000		CORRECTORES	11	CT	UND	0	1728	No	106.60	B/. 990.72	B/. 990.72
39211490000		FOAMY	7	CT	UND	0	700	No	87.90	B/. 842.00	B/. 842.00
90172090000		REGLAS	2	CT	UND	0	1000	No	23.50	B/. 150.00	B/. 150.00
48059299000		BLOCK DE DIBUJO,BLOCK DE CONSTRUCCION	10	CT	UND	0	396	No	110.80	B/. 317.52	B/. 317.52
96082030000		MARCADORES	15	CT	UND	0	2016	No	200.30	B/. 2,217.60	B/. 2,217.60
38261090000		ARCHIVADOR,HOJAS PROTECTORAS	14	CT	UND	0	430	No	83.85	B/. 374.60	B/. 374.60
96091010000		LAPICES DE COLORES	10	CT	UND	0	1800	No	189.31	B/. 1,219.20	B/. 1,219.20
96091090000		PINCELES	3	CT	UND	0	288	No	34.35	B/. 379.92	B/. 379.92
48201039000		PAPEL DE COLORES	10	CT	UND	0	200	No	86.50	B/. 340.00	B/. 340.00
TOTAL FOB	B/. 11,523.08	DESCUENTO	B/. 0.00	FLETE	B/. 0.00	SEGURO	B/. 0.00	OTROS	B/. 0.00	TOTAL CIF	B/. 11,523.08
TOTAL BULTOS	224	TOTAL DE UNIDADES SUELTAS	0	TOTAL UDM CANTIDAD	14408	PESO BRUTO TOTAL	1,948.93				

QUEDA GARANTIZADO BAJO LA GRAVEDAD DE JURAMENTO, QUE ESTOS DATOS SON EXACTOS Y VERDADEROS 1 de 3

FCI stopped processing manual documents on its platform thanks to the creation of the OCR Bot by the Rootstack team. To create it, they used an OCR from Amazon called Amazon Textract, which is a plugin that is available for UiPath. The OCR configuration was done and all the documents began to be read, thus obtaining the ability to read scanned or downloaded documents.

A normal OCR could only read the downloaded documents, with the OCR created by Rootstack, FCI got a bot capable of reading scanned documents that might be unreadable.



Amazon Textract was chosen because it is the most complete OCR and the one that offered the greatest support to the problem that FCI presented with its scanned documents and those with difficult visibility. For example, in a document with 10 products, the OCR reads them line by line and they are inserted into the FCI software.

In addition to this, a function was developed to be aware of the possible failures of the Bot, which, when unable to process a document for some reason, immediately sends an email to the person or persons assigned to this process and so they are aware.

The Amazon Textract was used with the community version of UiPath, this is free.



Technologies

UiPath is one of the most widely used tools for building RPA, or Robotic Process Automation, technologies and bots that help businesses speed up tedious processes and maximize productivity.



For its part, Amazon Textract "is a machine learning (ML) service that automatically extracts text, handwriting, and data from scanned documents. It goes beyond simple optical character recognition (OCR) to identify, understand, and extract data from forms and tables", according to the definition on its official website.