

SPRINGTECH  VENTURES

Cipher AI

**IDP & ICR
Technologies**





Contents

- About Springtech Ventures
- Next Generation IDP Technology
- Core Function
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- Other Use Case & Document Types
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- Case study



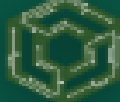
Automate manual document checking and document entry

In today's world of overwhelming paperwork and manual processes, automation offers clarity and control. Our intelligent document solutions deliver fast, accurate insights, eliminating guesswork from document checking and data entry.

Powered by AI, our platform reviews and extracts information with precision, instantly flagging inconsistencies and generating ready-to-use digital records.

Like a central control tower for document workflows, we streamline operations, reduce human error, and unlock new levels of productivity.

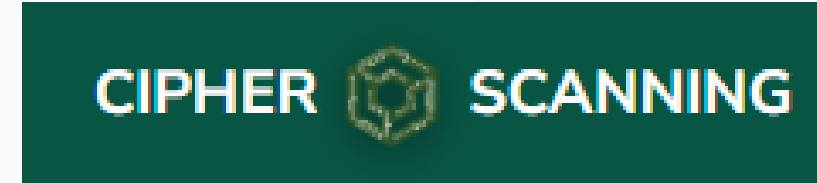
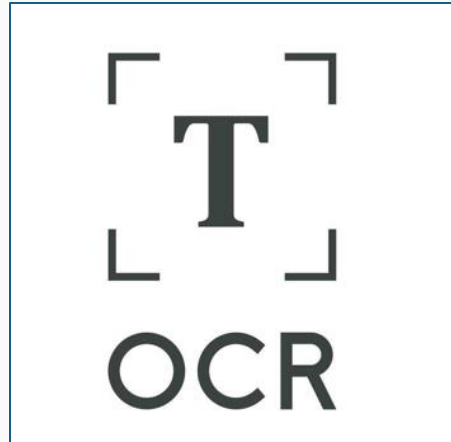
CIPHER  SCANNING

CIPHER  CLOUD

About Springtech Ventures

- 1M+ Images Analyzed
- 1K+ AI Models Trained
- 15+ Dedicated AI Engineers
- 100% Malaysian Made
- Innovating Since 2019

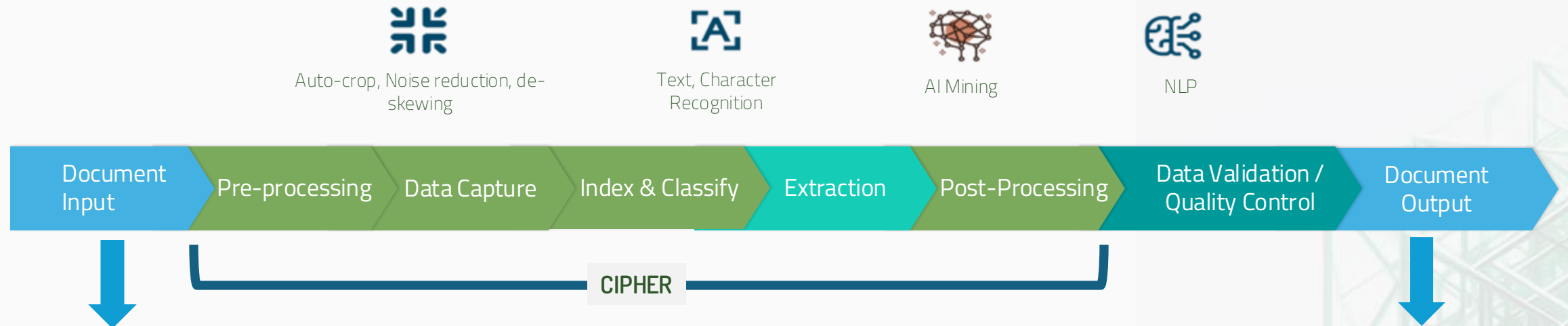
Convert IDP to OCR-Free Mechanism



- **OCR**
- Limited Font Support.
- Poor Handwriting Recognition.
- Lack of Adaptive Learning.
- Format Sensitivity.
- Accuracy Issues.
- Language Dependency.

- **OCR-Free**, supports any template & font.
- High handwriting recognition accuracy.
- 90% learning correction via *ML, Computer Vision, ICR and LLM*.
- Customizable outputs & 3rd party integration.
- AI-powered, adaptable to any document.

Cipher AI Workflow Overview



Supporting Input Formats

- PDF Document
- ScanDoc Documents
- Images
- WebPage in PDF
- Signature in Doc
- Barcode in Doc

Refer More to Appendix

Supporting Output Formats

- CSV
- EDMS (Electronic Document Management System)
- JSON
- Pipeline Delimiter TXT file

Possible Usage

- Rename PDF with Extraction
- Integrate with 3rd party APP

Refer More to Appendix

Cipher IDP Process Cycle

Step 1: Document Requirement Analysis & Model Pre-training

- Document Initialization: Study pre-trained document batch.
- Model Initialization: Specify field of information to capture.
- Data Capture: Automatically extracts specified fields with high accuracy.
- Model Optimization: Refine models to further improve data capture correction.

Step 2: On-Prem Implementation

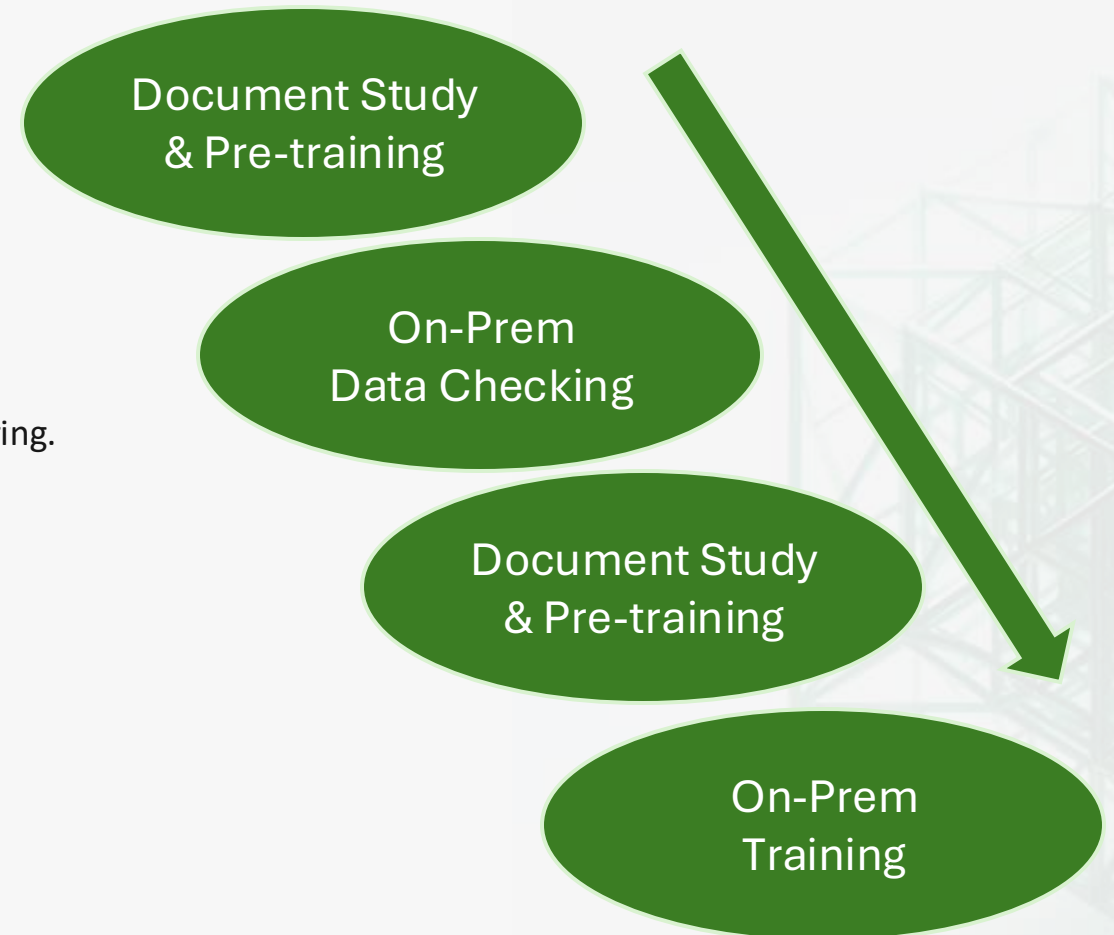
- Deployment & Implementation: Use pre-trained models for on-prem data capturing.
- Data Validation & Output: Customize validation rules to avoid wrong data entry.
- Analytics Dashboard: Keep track of data checking progress on-prem.

Step 3: Continuous Retraining & Learning

- Continuous Improvement: Validated data used for model retraining.
- Model Analysis: Evaluate newly trained model metrics.
- Analytics Dashboard: Keep track of model update activity log.

Step 4: New Document Type

- Flexible to New Templates: New templates can be studied and improved over time.





Cipher AI

Core Function



1. OCR-Free: Key& Value Pairing

Cipher AI delivers accurate Information Extraction (IE) by understanding the relationships between key-value pairs and their locations within documents.

(KEY): VENDOR NAME

SANKO SANGYO (MALAYSIA) SDN. BHD.

Lot 78, Jalan Hulu Tinggi 26/6, Hicom Industrial Estate, 40000 Shah Alam, P.O. Box 7174, 40706 Shah Alam, Selangor Darul Ehsan, Malaysia.
Tel: (603) 5191-1351, 5191-1653 Fax: (603) 5191-1676 Website: www.sankosangyo.com.my

INVOICE

Customer Name :
SONY EMCS (MALAYSIA) SDN BHD (183842-X)
LOT 4 JLN P/1
KWS PERINDUSTRIAN BANGI
43650 BANDAR BARU BANGI
SELANGOR DARUL EHSAN
ROHS-OK
Tel : 8258889 Fax : 89283506

SHIP TO:
SONY EMCS (MALAYSIA) SDN BHD (183842-X)
LOT 22 JALAN LENGKUNGAN SULTAN HISHAMUDIN KWS 20
NORTH KLANG STARAITS IND AREA 42000 PORT KLANG

KEY	Invoice No.	VALUE
	Invoice Date	01/04/2024
	Invoice Ref No.	
	Delivery Order No.	411046
	Customer Code	S013
	Date of Order	18/03/2024
	Terms	60 Days

VENDOR NAME

SANKO
SANGYO
(MALAYSIA)
SDN. BHD.

INVOICE NO.

411046

What We Assign AI
To Extract

2. Continuous Learning: Amend Data

Before Cipher Training:

B327609-P

PRIORITY SYNERGY SDN BHD
O/B TECK LING TRADING CO
NO. 12 & 14, JALAN SUNGAI AUR / KS4,
42000 PORT KLANG SELANGOR

19/01/2023
3:01PM
Page: 1/2

B18B01004342

PELABUHAN BARA
T, SELANGOR B 1 8

A981931-A

TECK LING TRADING CO
NO 5A, LORONG 31/B2
JALAN DING LIK KONG
96000 SIBU, SARAWAK

B F 0 7 6 4

PRIORITY OPTIMUM SERVICES SDN BHD
12 & 14 JALAN SUNGAI AUR / KS4
42000 PORT KLANG, SELANGOR D.E,
MALAYSIA

PK230100200 SIBU, SARAWAK MYSBW

FOB RM 40230.00

1 SEA 22/01/2023 402 30

22DBC/MTT SIBU PORT KLANGM Y P

SIBU, SARAWAK M Y S B W 8000.0000 25.0000 40230.00

ner No:
49644
and Nos:
(

1658
CARTON

1 X 20'GP CNTR STC: VARIOUS FOOD PRODUCTS & BEVERAGES

1) VARIOUS FLAVOURED NATA DE COCO	2009.90 9900	KGM
2) DEEP POWER ENERGY DRINK	2202.10 2000	LTR
3) AIR ASAM BOI	2202.99 9000	LTR

Data is available in the document.

CONSIGNEE

CONSIGNEE NAME CONSIGNEE ADDRESS

TECK LING TRADING CO NO 5A, LORONG 31/B2
JALAN DING LIK KONG
96000 SIBU, SARAWAK

NOTIFY PARTY

NOTIFY PARTY NAME NOTIFY PARTY ADDRESS

PRIORITY OPTIMUM SERVICES SDN BHD 12 & 14 JALAN SUNGAI AUR / KS4
42000 PORT KLANG, SELANGOR D.E.

DESCRIPTION

1X 20'GP CNTR STC: VARIOUS FOOD PRODUCTS & BEVERAGES
1658 CARTON
1) VARIOUS FLAVOURED NATA DE COCO
2) DEEP POWER ENERGY DRINK
3) AIR ASAM BOI 2202.99 9000 LTR

NUMBER CODE MISSING

TO THE NEXT PAGE TO THE NEXT PDF

Initial Result:
Number Code is not extracted.
Require QC to add such information

2. Continuous Learning: Amend Data

After Cipher Training: (cont.)

B327609-P
PRIORITY SYNERGY SDN BHD
O/B TECK LING TRADING CO
NO. 12 & 14, JALAN SUNGAI AUR / KS4,
42000 PORT KLANG SELANGOR
19/01/2023
3:01PM
Page: 1/2
B18B01004342
PELABUHAN BARA
T, SELANGOR B 1 8

A981931-A
TECK LING TRADING CO
NO 5A, LORONG 31/B2
JALAN DING LIK KONG
96000 SIBU, SARAWAK

B F 0 7 6 4
PRIORITY OPTIMUM SERVICES SDN BHD
12 & 14 JALAN SUNGAI AUR / KS4
42000 PORT KLANG, SELANGOR D.E,
MALAYSIA
PK230100200
SIBU, SARAWAK MYSBW
FOB RM 40230.00

1 SEA 22/01/2023 402 30
22DBC/MTT SIBU PORT KLANGM Y P
SIBU, SARAWAK M Y S B W 8000.0000 25.0000 40230.00

ner No:
49644
and Nos:

1658
CARTON
1 X 20'GP CNTR STC: VARIOUS FOOD PRODUCTS & BEVERAGES
1) VARIOUS FLAVOURED NATA DE COCO 2009.90 9900 KGM
2) DEEP POWER ENERGY DRINK 2202.10 2000 LTR
3) AIR ASAM BOI 2202.99 9000 LTR

Data is available in the document.

CONSIGNEE

CONSIGNEE NAME CONSIGNEE ADDRESS

TECK LING TRADING CO NO 5A, LORONG 31/B2
JALAN DING LIK KONG
96000 SIBU, SARAWAK

NOTIFY PARTY

NOTIFY PARTY NAME NOTIFY PARTY ADDRESS

PRIORITY OPTIMUM SERVICES SDN BHD 12 & 14 JALAN SUNGAI AUR / KS4
42000 PORT KLANG, SELANGOR D.E.

DESCRIPTION

1X 20'GP CNTR STC: VARIOUS FOOD PRODUCTS & BEVERAGES
1658 CARTON
1) VARIOUS FLAVOURED NATA DE COCO 2009.90 9900 KGM
2) DEEP POWER ENERGY DRINK 2202.10 2000 LTR
3) AIR ASAM BOI 2202.99 9000 LTR

DATA IS CORRECTED

TO THE NEXT PAGE TO THE NEXT PDF

After Trained:
Number code can appear under
Description.

3. Continuous Learning: Noise Removal

Before Cipher Training:

Noise:
Form Content legend is extracted as it is layered under the extraction area.

Initial Result:
Data is extracted with the Form Content Legend.

JABATAN KASTAM DIRAJA MALAYSIA / ROYAL MALAYSIAN CUSTOMS
PERMOHONAN / PERMIT UNTUK MENGANGKUT BARANG-BARA
APPLICATION / PERMIT TO TRANSPORT GOODS WITHIN

1. Konsinor (Nama dan Alamat) / Consignor (Name and Address)	i) Kod Konsinor / Consignor Code	UNTUK KEGUNAAN RASM
ACSON MALAYSIA SALES & SERVICE S.B. NO.7A, JALAN 13/4, SECTION 13, 46200 PETALING JAYA, SELANGOR DARUL EHSAN.	B129688-D	9. Tarikh dan Waktu Terima / Date and Time of Receipt 23/11/2023 4:51PM Page: 1/4
2. Konsaini (Nama dan Alamat) / Consignee (Name and Address)	i) Kod Konsaini / Consignee Code	12. Nombor Pendaftaran Mani Manifest Registration Num
ACSON MALAYSIA SALES & SERVICE S.B. C/O: CND T'PORT S/B. LOT 11D, IND. ZONE 13 (IZ13), KRIP TIMUR TMN. P. IND. KOTA KINABALU, 88460 SABAH	B923166-U	
3. Nama dan Alamat Ejen Yang Diberikuasa Name and Address of Authorized Agent	i) Kod Ejen / Agent Code	14. No. Permit Pergerakan / Mo
WISDOM FREIGHT AND LOGISTICS SDN. B NO.67 JALAN BATU UNJUR 3 TAMAN BAYU PERDANA 41200 KLANG SELANGOR	B F 1 2 3 1	
4. Mod Pengangkutan / Mode of Transport 1. Laut / Sea 2. Udara / Air 3. Lain-lain (Nyatakan) / Others (Specify)	5. Tarikh Penghantaran / Date of Despatch	16. Bil Muatan / No. Nota Kom Bill of Lading / Consignment
1 SEA	28/11/2023	PK231101466
		18. Amaun telah diterima / aka CIF RM 25264
		19. No. Rujukan / Reference No

SHIPPER

SHIPPER NAME

ACSON MALAYSIA SALES & SERVICE S.B.

SHIPPER ADDRESS

NO.7A, JALAN 13/4, SECTION 13,
46200 PETALING JAYAYAYAYAYA CBP / GST
Registration No.*
SELANGOR DARUL EHSAN

CONSIGNEE NAME

ACSON MALAYSIA SALES & SERVICE S.B.
C/O: CND T' PORT S/B.

CONSIGNEE ADDRESS

ZONE 13 (IZ13), KRIP-TIMUK,
KOTA KINABALU, 88460 SABAH

NOTIFY PARTY

NOTIFY PARTY NAME

WISDOM FREIGHT AND LOGISTICS

NOTIFY PARTY ADDRESS

NO.67 JALAN BATU UNJUR 3
TAMAN BAYU PERDANA
41200 KLANG SELANGOR

IN CORRECT DATA EXTRACTED

4. Continuous Learning: Noise Removal

After Cipher Training:
(cont.)

Noise remain:
Form Content legend is extracted as it is
layered under the extraction area.

After Trained:
Noise is recognized and removed during data
extracting. Data is corrected.

3

WE2311-034
Code: 00
Copy: 1

JABATAN KASTAM DIRAJA MALAYSIA / ROYAL MALAYSIAN CUSTOMS	
PERMOHONAN / PERMIT UNTUK MENGANGKUT BARANG-BARA APPLICATION / PERMIT TO TRANSPORT GOODS WITHIN	
1. Konsinor (Nama dan Alamat) / Consignor (Name and Address)	i) Kod Konsinor / Consignor Code
ACSON MALAYSIA SALES & SERVICE S.B. NO.7A, JALAN 13/4, SECTION 13, 46200 PETALING JAYA, SELANGOR DARUL EHSAN.	B129688-D
2. Konsaim (Nama dan Alamat) / Consignee (Name and Address)	i) Kod Konsaim / Consignee Code
ACSON MALAYSIA SALES & SERVICE S.B. C/O: CND T'PORT S/B. LOT 11D, IND. ZONE 13 (IZ13), KKIP TIMUR TMN.P'IND. KOTA KINABALU, 88460 SABAH	B923166-U
3. Nama dan Alamat Ejen Yang Diberikuasa Name and Address of Authorized Agent	i) Kod Ejen / Agent Code
WISDOM FREIGHT AND LOGISTICS SDN. B NO.67 JALAN BATU UNJUR 3 TAMAN BAYU PERDANA 41200 KLANG SELANGOR	B F 1 2 3 1
4. Mod Pengangkutan / Mode of Transport 1. Laut / Sea 2. Udara / Air 3. Lain-lain (Nyatakan) / Others (Specify)	5. Tarikh Penghantaran / Date of Despatch
1 SEA	28/11/2023
6. No. / Nama Vessel / Persewaan / Kondaraan	7. Pelabuhan / Tempat Dimuatkan
UNTUK KEGUNAAN RASMI	
9. Tarikh dan Waktu Terima / Date and Time of Receipt	
23/11/2023 4:51PM Page: 1/4	
12. Nombor Pendaftaran Mani Manifest Registration Num	
14. No. Permit Pergerakan / Mo	
16. Bil Muatan / No. Nota Kom Bill of Lading / Consignme	
PK231101466	
18. Amaun telah diterima / aka Jaminan	
CIF RM 25264	
19. No. Rujukan / Reference No	

SHIPPER

SHIPPER NAME

ACSON MALAYSIA SALES & SERVICE S.B.

SHIPPER ADDRESS

NO.7A, JALAN 13/4, SECTION 13,
46200 PETALING JAYA
SELANGOR DARUL EHSAN

DATA IS CORRECTED

CONSIGNEE

CONSIGNEE NAME

ACSON MALAYSIA SALES & SERVICE S.B.

CONSIGNEE ADDRESS

C/O: CND T' PORT S/B. LOT 11D, IND.
ZONE 13 (IZ13), KKIP TIMUR TMN.P'IND.
KOTA KINABALU, 88460 SABAH

NOTIFY PARTY

NOTIFY PARTY NAME

WISDOM FREIGHT AND LOGISTICS SDN. B

NOTIFY PARTY ADDRESS

NO.67 JALAN BATU UNJUR 3
TAMAN BAYU PERDANA
41200 KLANG SELANGOR



Cipher AI

**Supporting Tools &
Function**



1. Field Focusing

PK240703186.pdf Incomplete

Shipper QSR TRADING SDN BHD LOT PT 20153, JALAN PELABUHAN UTARA, 42000 PELABUHAN KLANG SELANGOR MALAYSIA		Job No SE24070608	Shipping Ref PK240703186		
Consignee TING & LING TRADING SDN BHD NO. 15B, LORONG DING LIK KONG 18, 96000 SIBU SARAWAK MALAYSIA		Shipping Instruction Draft			
Notify Party (No claim shall for failure to notify) TING & LING TRADING SDN BHD NO. 15B, LORONG DING LIK KONG 18, 96000 SIBU SARAWAK MALAYSIA					
Pre-Carriage by		Place of Receipt	Port of Loading PORT KLANG ,MALAYSIA	Freight Term	
Vessel MTT SARIKEI/24MI069E		Port of Discharge SIBU - SARAWAK ,MALAYSIA	Place of Delivery SIBU - SARAWAK ,MALAYSIA	No. of Original Bills Of Lading THREE(3)	
Marks & Numbers CRXU5276031/PK2199890/ 20RF/FCL	Number of pkgs 890 CTN	Description of Goods SHIPPER STOW, COUNT AND SEAL 1X20RF CONTAINER 890 CARTON OF 'HALAL' FROZEN FURTHER PROCESSED PRODUCTS AS PER INVOICE NO : TLS 025/24		Gross Weight 8,528.000KGS	Measurement 22.9000M3

(2) View Field

QSR TRADING SDN BHD

LOT PT 20153, JALAN PELABUHAN UTARA, 42000 PELABUHAN KLANG SELANGOR MALAYSIA

+

CONSIGNEE

CONSIGNEE NAME

CONSIGNEE ADDRESS

TING & LING TRADING SDN BHD

NO. 15B, LORONG DING LIK KONG 18, 96000 SIBU SARAWAK MALAYSIA

+

NOTIFY PARTY

NOTIFY PARTY NAME

NOTIFY PARTY ADDRESS

TING & LING TRADING SDN BHD

NO. 15B, LORONG DING LIK KONG 18, 96000 SIBU SARAWAK MALAYSIA

+

SHIPMENT DESCRIPTION

DESCRIPTION

SHIPPER STOW, COUNT AND SEAL
1X20RF CONTAINER
890 CARTON OF 'HALAL' FROZEN FURTHER
PROCESSED PRODUCTS

AS PER INVOICE NO : TLS 025/24

+

TO THE NEXT PDF

2. Recognize Handwriting

Consignee : ECO-SHOP MARKETING SDN BHD
SUBLOT 92, 93, Q4 & Q5 OF PARENT LOT 7668 (GRD, 1ST & 2ND FLO)
BLOCK 31, KEMENA LAND DISTRICT, BINTULU SENTRAL,
JALAN TG. KIDURONG, 97000 BINTULU, SARAWAK.
TEL: 017-7577731

- Handwriting is in between of printed content on documents.
- Handwritten content is layered on tops of printed content.

CONSIGNEE

CONSIGNEE NAME	CONSIGNEE ADDRESS
ECO-SHOP MARKETING SDN BHD	SUBLOT 92, 93, Q4 & Q5 OF PARENT LOT 7668 (GRD), 1ST FLO) BLOCK 31, KEMENA LAND DISTRICT, BINTULU SENTRAL, JALAN TG. KIDURONG, 97000 BINTULU, SARAWAK. TEL: 017-7577731

+

NOTIFY PARTY

- Cipher can recognize both printed and handwritten content.
- Characters are read correctly and in sequence as it is in the document.

3. Multi-Language Support

A. Chinese Language

(Use Case: Content Translation etc.)

HEADER	
NEWS CATEGORY	
国内 即时国内	
+	
BODY	
NEWS TOPIC	NEWS DESCRIPTION
2000万令吉赎金案 2嫌犯押上庭申请延扣	(新山24日讯) “2000万令吉赎金案”涉案的其中2名外籍嫌犯, 于今早被带到新山法庭延扣。
+	

B. English Language (Use Case: Description)

CARGO DESC
DESCRIPTION
1 X 20'RFHC CONTAINER SAID TO CONTAIN 1,344 BOX FRESH VEGETABLE VENTILATION: 50% OPEN & TEMPARATURE +4' FREIGHT PREPAID SHIPERS LOAD AND COUNT AND SEALED DESTINATION THC TO COLLECT HS CODE 07020000000

C. Malay Language (Use Case: Addresses)

SHIPPER ADDRESS	CONSIGNEE ADDRESS
LOT 1851-A & 1851-B, JALAN KPB 6, KAWASAN PERINDUSTRIAN BALAKONG, 43300 SERI KEMBANGAN, SELANGOR	1ST FLOOR, NO.8, LOT 20, BLOCK C, HIONG TIONG IND CENTRE, MILE 7, JLN TUARAN, 88450 INANAM, KOTA KINABALU, SABAH

4. Copy & Paste

Only applicable to searchable PDF (highlightable content)

QC Status for 2025-01-17 QC (SI) box: Incomplete QC

HS CODE : 6305.33.9000

VESSEL/VOYAGE NAME:
MTT KUCHING DUA / 24MD164E

PORT OF DESTINATION: KOTA KINABALU, SABAH
PORT OF FINAL DESTINATION: KOTA KINABALU, SABAH

TOTAL WEIGHT & MEASUREMENT:
8,000 KGS / 20M3

DESCRIPTION:
1 x 20GP CONTAINER

1) PP WOVEN CIRCULAR BAG
SIZE :26" X 41" (660X1041MM)
PRINTING :4120 POULTRY GROWER MASH
MARKING: A1-A8
8BDLS X 250PCS
QTY :2,000PCS

2) PP WOVEN CIRCULAR BAG
SIZE : 26" X 38" (660X965MM)
PRINTING :4130 POULTRY LAYER MASH
MARKING: B1-B26
26BDLS X 250PCS
QTY :6,500PCS

3) PP WOVEN CIRCULAR BAG
SIZE :26" X 41" (660X1041MM)
PRINTING : 320 STARTER MASH
MARKING:C1-C2
2BDLS X 250PCS
QTY :500 PCS

(1). Copy

DESCRIPTION:
1 x 20GP CONTAINER

1) PP WOVEN CIRCULAR BAG
SIZE :26" X 41" (660X1041MM)
PRINTING :4120 POULTRY GROWER MASH
MARKING: A1-A8
8BDLS X 250PCS
QTY :2,000PCS

2) PP WOVEN CIRCULAR BAG
SIZE : 26" X 38" (660X965MM)
PRINTING :4130 POULTRY LAYER MASH
MARKING: B1-B26
26BDLS X 250PCS
QTY :6,500PCS

3) PP WOVEN CIRCULAR BAG
SIZE :26" X 41" (660X1041MM)
PRINTING : 320 STARTER MASH
MARKING:C1-C2
2BDLS X 250PCS
QTY :500 PCS

(2). Paste Content to desired text fields: -

CARGO DESC

DESCRIPTION

1x 20GP CONTAINER

1) PP WOVEN CIRCULAR BAG
SIZE :26" X 41" (660X1041MM)
PRINTING :4120 POULTRY GROWER MASH
MARKING: A1-A8
8BDLS X 250PCS
QTY :2,000PCS

2) PP WOVEN CIRCULAR BAG
SIZE : 26" X 38" (660X965MM)
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26BDLS X 250PCS
QTY :6,500PCS

3) PP WOVEN CIRCULAR BAG
SIZE : 26" X 41" (660X1041MM)
PRINTING : 320 STARTER MASH
MARKING:C1-C2
2BDLS X 250PCS
QTY :500 PCS



Cipher AI

**Other Use Case &
Document Types**



Use Case – Shipping Instruction

MTT SHIPPING SDN BHD

Shipper

NESTLE PRODUCTS SDN. BHD. (45225H)
LEVEL 22, 1 POWERHOUSE
NO 1, PERBIRAN BANDAR UTAMA, BANDAR UTAMA
47300 PETALING JAYA, SELANGOR DARUL EHSAN

Booking reference No.

PK231101932

Consignee

HARRISON (SABAH) SDN BHD (22524V)
19 JALAN HAJI SAMAN
88000 KOTA KINABALU SABAH

Notify Party

SHIN YANG SHIPPING SDN BHD
LOT 25, NO 3A, JUN 1G,
KKIP BELATAN INDUSTRIAL ZONE 4 (IZ4)
KOTA KINABALU INDUSTRIAL PARK,
88460 KOTA KINABALU

POFD

MTT BINTULU
Voyage No.
22MB404E
Port of discharge
KOTA KINABALU

POL

Place of Receipt
KMT CY
Port of Loading
Port Klang
Place of Delivery

Container No

SEKU6300837

Seal No

SEAL NO - MTT 2120118
KMT CODE : 230AAA

Mark & No

30-Nov-2023

Number & kind of packages : description of goods

1 X 40'FT CONTAINER STC:
2555 CB OF FOOD PRODUCT B
REFER TO FDO & INVOICE NO :

Gross weight (Kilograms)

Weight

25512.55

Measurement (Cubic meters)

Measurement

65.60

FDO NO :

841066592

INV NO :

99KX1/VK471

DESTINATION CHARGES PAYABLE AT PORT KLANG.
HS 111% 2101.11.18 00

STUFFING :

BJK

Description

Shipper

GREATWALL TYRE INDUSTRIES SDN. BHD.
C/O NO.12 AND 14, JALAN SUNGAI
AUR/KS4,42000 PORT KLANG
SELANGOR DE

04/2023

4145PM

Page: 1/1

B18B04004715

PELABUHAN BARA
T, SELANGOR B 1 B

E23040093

Code: 00

Copy: 1

Consignee

GREATWALL TYRE INDUSTRIES SDN BHD
NO.14E,LANE 2,LANANG ROAD,
96000 SIBU,SARAWAK

Notify Party

PRIORITY SYNERGY SDN BHD
NO. 12 & 14, JALAN SUNGAI AUR / KS4
42000 PORT KLANG, SELANGOR D.E,
MALAYSIA

POFD

SIBU, SARAWAK

Container No

SE23040093

Mark & No

SE23040093

Weight

Measurement

21300.0000

25.0000

122.08

488.32

12208.00

1 X 20'GP CNTR STC: BATTERY WATER

1) BATTERY WATER 240KG

8506.90 9000 UNT

INVOICE VALUE (FOB) MYR

12208.00 = RM

12208.00 Exch: 1.0000

FREIGHT

4.00 = RM

488.32 Exch: 0.0000

INSURANCE

1.0000 = RM

122.08 Exch: 0.0000

OTHER CHARGES

0.00 = RM

0.00 Exch: 0.0000

PORT CHARGES

0.00 = RM

0.00

FOB VALUE

= RM

12208.00

CIF VALUE

= RM

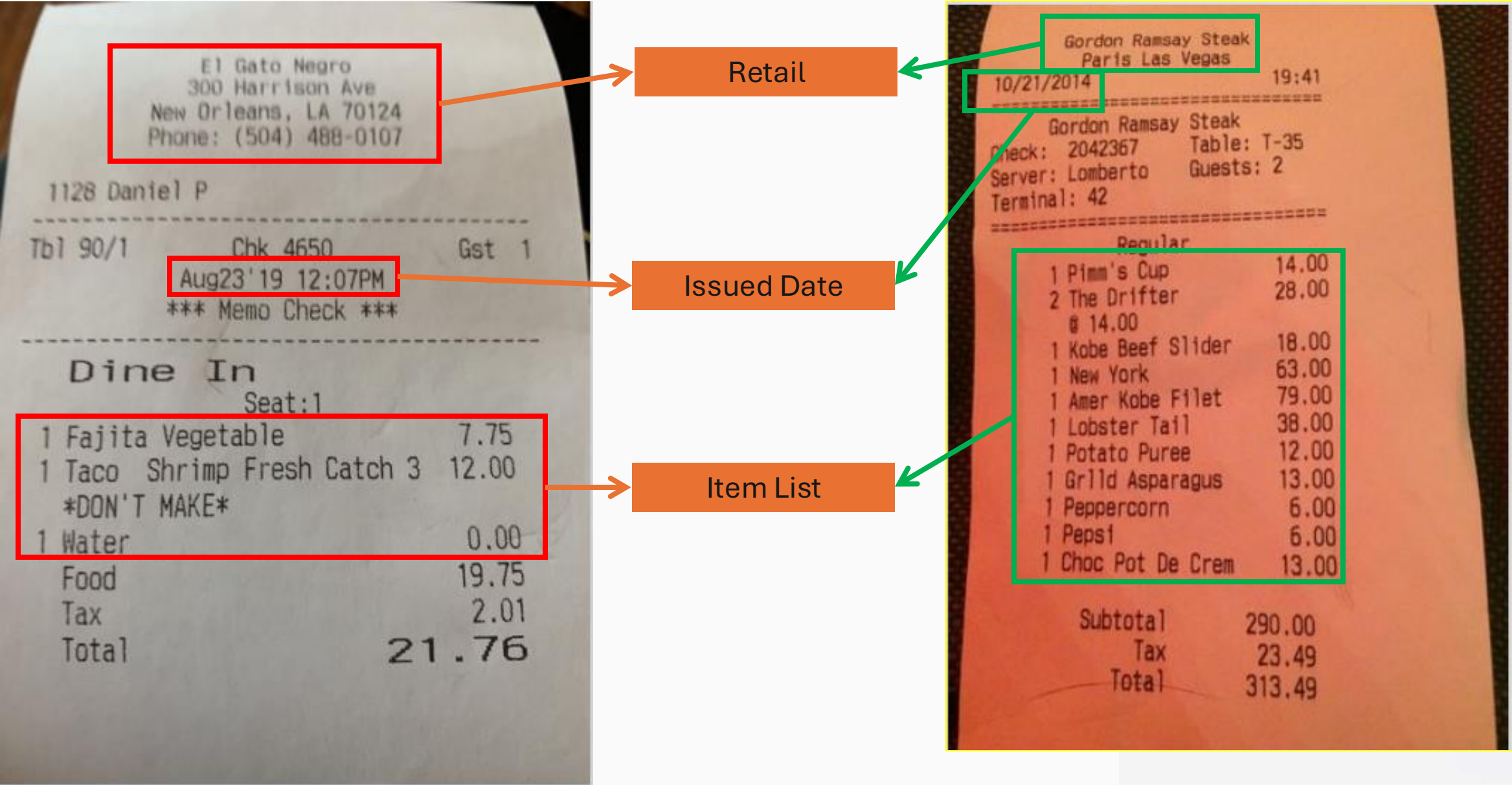
12818.40

CIFC VALUE

= RM

12818.40

Use Case – Retail Receipts



Use Case – Invoices

Invoice Info



EZYTRONIC SDN BHD 200701038403 (796433-W)

10,29, Jalan PP4/2A,
Taman Perindustrian Pusat,
Bandar Mahong, 47100,
Kuching, Sarawak, Malaysia.

03 8084 2218 | www.ezytronic.com.my

SST REG NO: B16-2008-3200808

For enquiries  sales@ezytronic.com

For finance  finance@ezytronic.com

For warranty  support@ezytronic.com


INV148838

Bill To

MTT SHIPPING SDN BHD
NO.16, JALAN SUNGAI AUR/KS4,
PORT KLANG,
42200 SELANGOR

Customer contact: TERENCE TAN (012-
Mobile:
Office Phone: 03-5568 2759

Date: 22-01-2024
Invoice: INV148838
Sales Order: 42429

Ship to

MTT SHIPPING SDN BHD
NO.16, JALAN SUNGAI AUR/KS4,
PORT KLANG,
42200 SELANGOR

Rep: wing_khong

Terms: 30 DAYS

Delivery: DRIVER

Po Remark: QT24-WK-000091,
MTT24-004

Invoice Line Item

Item Code	Description	Qty	Unit Price	Total Exc. SST	SST 6%	Total Inc SST
SR VENTILAT ION FAN	VENTILATION FAN - 100mm dia x 1pc ** 24U - 2 Unit ** 12U - 10 Unit	12	65.00	780.00	0.00	780.00
SRSE ESG- DEPLOYM ENT	Deployment: - Onsite install the Server Fan in the Server RACK. Location: MTT Shipping - Shah Alam New Office.	1	600.00	600.00	36.00	636.00

Received date

12 3 JAN 2024

Verified by

SMS

Approved by

Posted by

Booking no.

SubTotal

12 1,80.00 1,380.00 36.00 1,416.00

Total (RM)

1,416.00

Payment information

zytronic Sdn Bhd | Maybank 512 222 122 133

Terms & Condition

Goods sold are not returnable.
All goods sold remain the property of EZYTRONIC SDN BHD until full payment is made.
Any cancellation of purchase will subject to a minimum of 15% charges of PO.
Prices quoted is subject to change without prior notice.
All late payment will be subjected to a 1.5% late payment charges base on the invoice amount.

Signature 2

Received By (Chop & Sign)

Full Name: FAN KY

IC / ID No.

Use Case – Invoices Info

VENDOR NAME

EZYTRONIC SDN BHD
200701038403 (76433-W)

ISSUED DATE

22-01-2024

Invoice Information (Data Captured)



CUSTOMER NAME

MTT SHIPPING SDN BHD

INVOICE NO

INV148838
242429

Use Case – Invoices Line Item

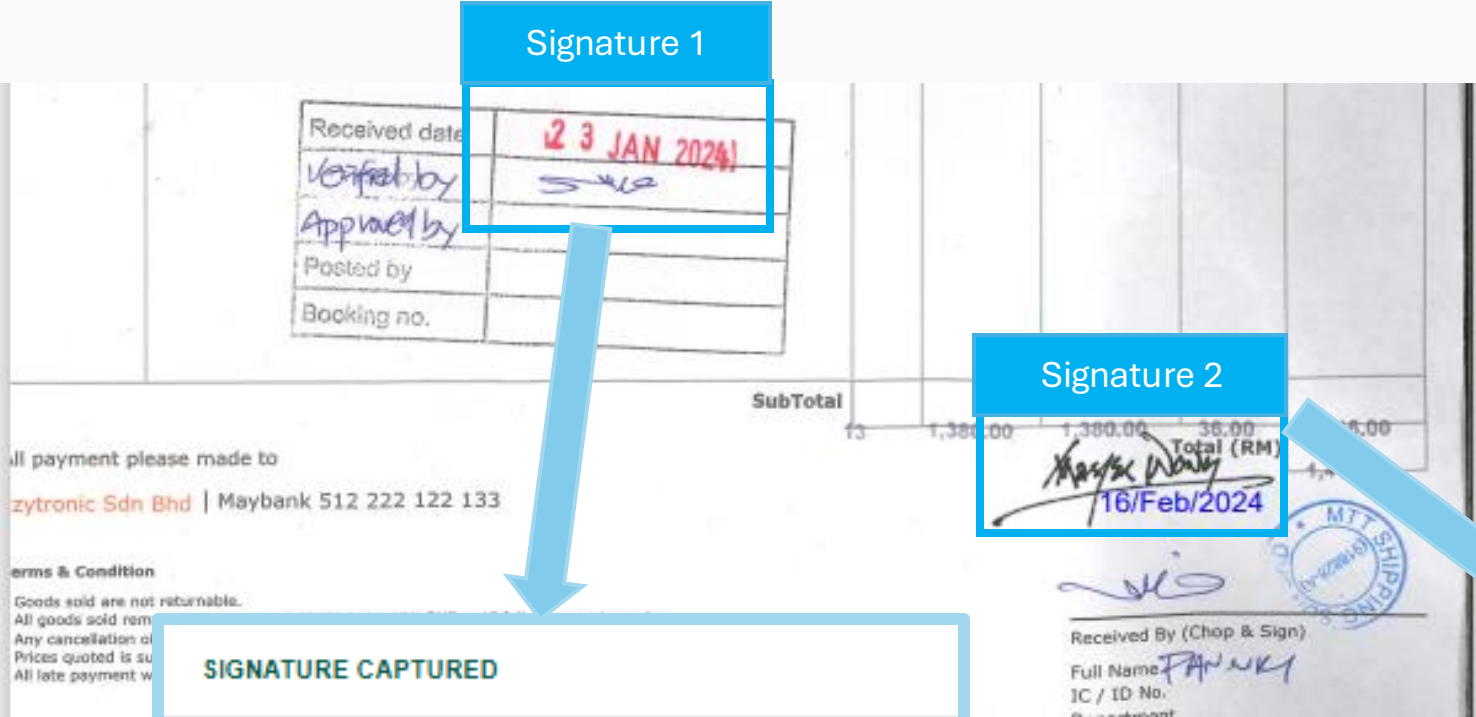
Invoice Line Item

Item Code	Description	Qty	Unit Price	Total Exc. GST	GST 6%	Total Inc GST
SR VENTILAT ION FAN	VENTILATION FAN - 100mm dia x 1pc ** 24U - 2 Unit ** 12U - 10 Unit	12	65.00	780.00	0.00	780.00
SRS6 ESG- DEPLOYM ENT	Deployment: - Onsite install the Server Fan in the Server RACK. Location: MTT Shipping - Shah Alam New Office.	1	600.00	600.00	36.00	636.00

Information is captured and extracted in tabulated format.

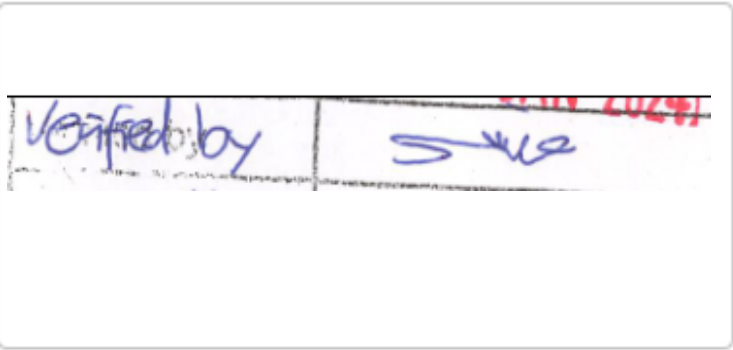
NUM	ITEM DESC	UNIT PRICE	UNIT / QTY	ITEM AMOUNT	
-	SR VENTILATION FAN	VENTILATION FAN - 100mm dia x 1pc **24U - 2 Unit **12U - 10 Unit	12	65.00	780.00
-	SRS6 ESG-DEPLOYMENT	Deployment: - Onsite install the Server Fan in the Server RACK. Location: MTT Shipping - Shah Alam New Office.	1	600.00	636.00
+					

Use Case – Invoices Signature



Signature is detected with acknowledgement date.

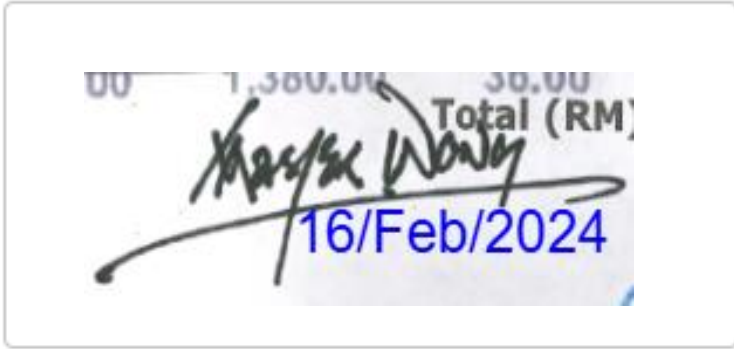
SIGNATURE CAPTURED



SIGNED AT

23 JAN 2024

SIGNATURE CAPTURED



SIGNED AT

16/Feb/2024



Cipher AI API

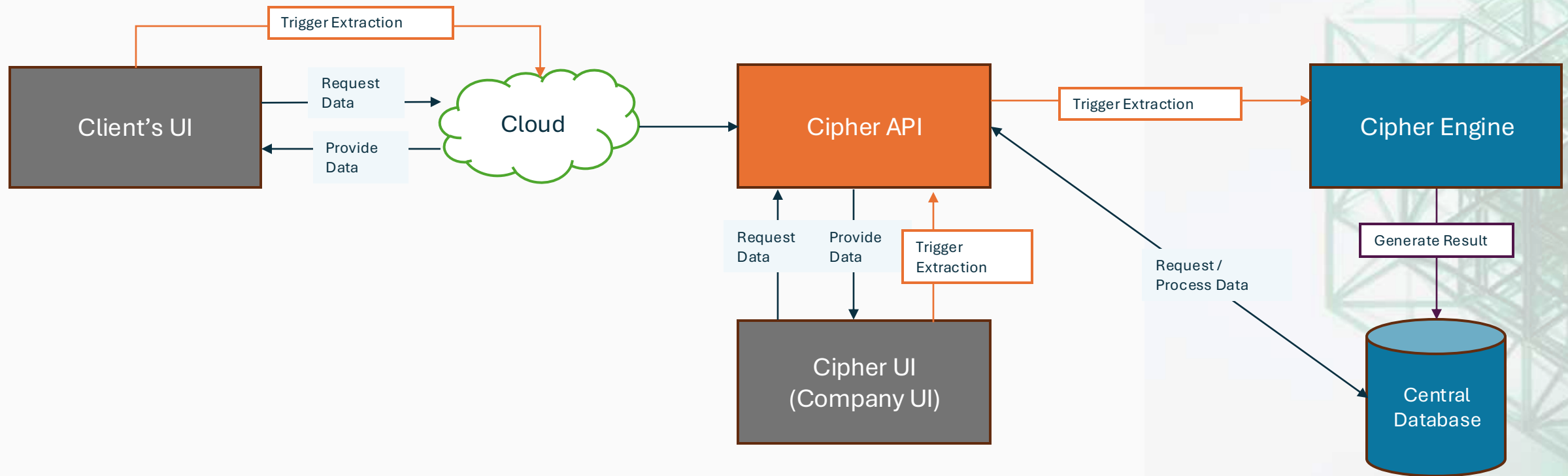
Developer Friendly APIs



Integrating with Cipher API

A complete set of REST API functions is available for developers to integrate Cipher AI extraction into custom web applications. Clients can design their own user interfaces and trigger the extraction process through API requests.

Technical Workflow:



Full Fledge API

Access the complete suite of functionalities within Cipher AI's API, covering batch processing, quality control, user and job management, project setup, data export, and core AI capabilities.

batch All operations related with getting and updating batch results.

GET `/result/output/{box_id}` Get Result By Box

GET `/result/page_result/{box_id}/{pdf_file_name}/{pdf_page}` Get Result By Pdf Page

POST `/result/update/{box_id}/{pdf_filepath}/{pdf_page}` Update Result

POST `/result/Auto_QC/{project_name}/{batch_id}` Auto Qc

GET `/result/Check_extraction_status/{box_id}` Check Extraction Status

GET `/pdf-data/{box_id}/{filepath}` Get Pdf File

qc All operations related with manipulating QC status.

PUT `/qc/mark-in-progress/` Update In Progress

PUT `/qc/mark-complete/` Update Completed

user All operations related with current user.

GET `/users/info` Get Current User Info

PUT `/users/update` Update Current User

PUT `/users/change_password/` Change Current User Password

list All operations related to listing available documents in the system.

GET `/list/` List All Projects

GET `/list/archive_boxes_project` List Archived Boxes By Project

GET `/list/boxes_project` List Boxes By User

GET `/list/get-all-documents-by-project` List Folders By Box

job_setup All operations related to job setup.

GET `/job-setup/list` List Job Setup

GET `/job-setup/list_document_type` List Document Type

GET `/job-setup/list_document_type_job_setup` List Document Type Job Setup

DELETE `/job-setup/delete_document_type` Delete Document Type

PUT `/job-setup/update_document_type` Update Document Type

PUT `/job-setup/update_layout_bool` Update Layout Bool

GET `/job-setup/list/{job_setup_name}` Get Job Setup

POST `/job-setup/create_job_setup` Create Job Setup

Case Study 1: Account Payable (AP) Automation

Tax Code	Description	Qty	UOM	U/ Price RM	Disc.	Total RM
	ASUS ExpertBook B1-B1402CV - Intel® Core™ i7-1355U Processor 1.7GHz (12M Cache, up to 5GHz,10 core) - Windows 11 Pro - ASUS recommends Windows 11 Pro for business - 14.0-inch 250nits FHD (1920 x 1080) 16:9, Anti-glare display - Intel® UHD Graphics - 16GB DDR4 on board - 512GB M.2 NVMe™ PCIe® 4.0 SSD - 720p HD camera With privacy shutter - Wi-Fi 6E(802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless Card - FingerPrint - Backlit Chiclet Keyboard - Warranty: 3Y Onsite+3Y Battery+1Y Perfect Warranty - Wireless Mouse - Backpack S/N: S1NXCVC13C51005B, S1NXCVC13C516050 S1NXCVC13C520054, S1NXCVC13C521053 S1NXCVC13C52205E	5	UNIT	3,880.00		19,400.00

Received date	23/4/2024
Verified by	AKMAL
Approved by	
Posted by	
Booking no.	

SIT MALAYSIA NINETEEN THOUSAND FOUR HUNDRED ONLY

Sub Total (Excluding Tax) 19,400.00

TOTAL AMOUNT CAPTURED

Total (Inclusive of Tax) 19,400.00

✓ Compare Done

TOTAL AMOUNT
(CALCULATED & VALIDATED) = \$\$\$\$

AP Workflow Automation

This study case is to process invoice documents to know total invoice payable amount and ensure total invoice amount is error-free.

Step 1: Capture & Extract all required information

NSD

NS DISTRIBUTION (M) SDN. BHD.

Vendor Name

MTT SHIPPING SDN BHD

Billed to - Customer

INVOICE

No. : NS 37554

Invoice No

ATTN: TERENCE

TEL : 03-55682753

FAX : 03-55682997

Issued Date

23/04/2024

Invoice Item List

Item	Tax Code	Description	Qty	UOM	U/ Price RM	Disc.	Total RM
1.		ASUS ExpertBook B1-B1402CV - Intel® Core™ i7-1355U Processor 1.7GHz (12M Cache, up to 5GHz, 10 core) - Windows 11 Pro - ASUS recommends Windows 11 Pro for business - 14.0-inch 250nits FHD (1920 x 1080) 16:9, Anti-glare display - Intel® UHD Graphics - 16GB DDR4 on board - 512GB M.2 NVMe™ PCIe® 4.0 SSD - 720p HD camera With privacy shutter - Wi-Fi 6E(802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless Card - FingerPrint - Backlit Chiclet Keyboard - Warranty: 3Y Onsite+3Y Battery+1Y Perfect Warranty - Wireless Mouse - Backpack S/N: S1NXCVC13C51005B, S1NXCVC13C516050 S1NXCVC13C520054, S1NXCVC13C521053 S1NXCVC13C52205E.	5	UNIT	3,880.00		19,400.00

Received date

23/4/2024

Verified by

AKMAL

Approved by

Posted by

Booking no.

RINGGIT MALAYSIA NINETEEN THOUSAND FOUR HUNDRED ONLY

Sub Total (Excluding Tax)

19,400.00

Tax @ 0% on 0.00

0.00

Total Invoice Amount

19,400.00

Extracted Information

Vendor = NS Distribution
Customer Name = MTT Shipping
Invoice No = NS37554

Description =
ASUS ExpertBook B1-B1402CV
- Intel® Core™ i7-1355U Processor 1.7GHz(12M Cache, up to 5GHz, 10 core)
- Windows 11 Pro - ASUS recommends Windows 11 Pro for business
- 14.0-inch 250nits FHD (1920 x 1080) 16:9, Anti-glare display
- Intel® UHD Graphics
- 16GB DDR4 on board
- 512GB M.2 NVMe™ PCIe® 4.0 SSD
- 720p HD camera With privacy shutter
- Wi-Fi 6E(802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless Card
- FingerPrint
- Backlit Chiclet Keyboard
- Warranty: 3Y Onsite+3Y Battery+1Y Perfect Warranty
- Wireless Mouse
- Backpack
S/N: S1NXCVC13C51005B, S1NXCVC13C516050
S1NXCVC13C520054, S1NXCVC13C521053 S1NXCVC13C52205E.

Qty = 5
UOM = UNIT
U/Price = 3,880.00
Total Item Amount = 19,400.00

Total Invoice Amount = 19,400.00

AP Workflow Automation

This study case is to process invoice documents to know total invoice payable amount and ensure total invoice amount is error-free.

Step 2: Start Validation Process

Reference Extraction Information.

Vendor = NS Distribution

Customer Name = MTT Shipping

Invoice No = NS37554

Qty = 5

UOM = UNIT

U/Price = 3,880.00

Total Item Amount = 19,400.00

Total Invoice Amount = 19,400.00

Validation Formulae must satisfy:

Total Item Amount (Validated) = **Qty (Extracted) * U/Price (Extracted)**

Total Item Amount (Extracted) = Total Item Amount (Validated)

SUM of Total Item Amount (Validated) MUST EQUAL TO **Total Invoice Amount (Extracted)**

Calculation:

Total Item Amount (Validated) = **Qty (Extracted) * U/Price (Extracted)**
= 19,400.00

✓ Compare Done

Total Item Amount (Extracted) = Total Item Amount (Validated)
19,400.00 = 19,400.00

✓ Compare Done

SUM of Total Item Amount (Validated) MUST EQUAL TO **Total Invoice Amount (Extracted)**

SUM (19,400.00) = 19,400.00

✓ Compare Done

✓ Invoice is fully validated

AP Workflow Automation

This study case is to process invoice documents to know total invoice payable amount and ensure total invoice amount is error-free.

Step 3: Save into ERP

#	Vendor Name	Invoice No	Billed To	Issued Date	No.	Item Description	Qty	UOM	U/Price	Total Item Amout	Total Invoice Amount	Validated
1	NS DISTRIBUTION SDN BHD	NS37554	MTT SHIPPING SDN BHD	23/4/2024	1	ASUS ExpertBook B1-B1402CV - Intel® Core™ i7-1355U Processor 1.7GHz(12M Cache, up to 5GHz,10 c ore) - Windows 11 Pro - ASUS recommends Windows11 Pro for business	5	UNIT	3880.00	19400.00	19400.00	TRUE

Export saved data in form of CSV

Total Invoice Payable is RM19,400.00, payment validated and credited to NS Distribution Sdn Bhd,

From MTT Shipping Sdn Bhd

AP Workflow Automation

Cipher Analytics Dashboard

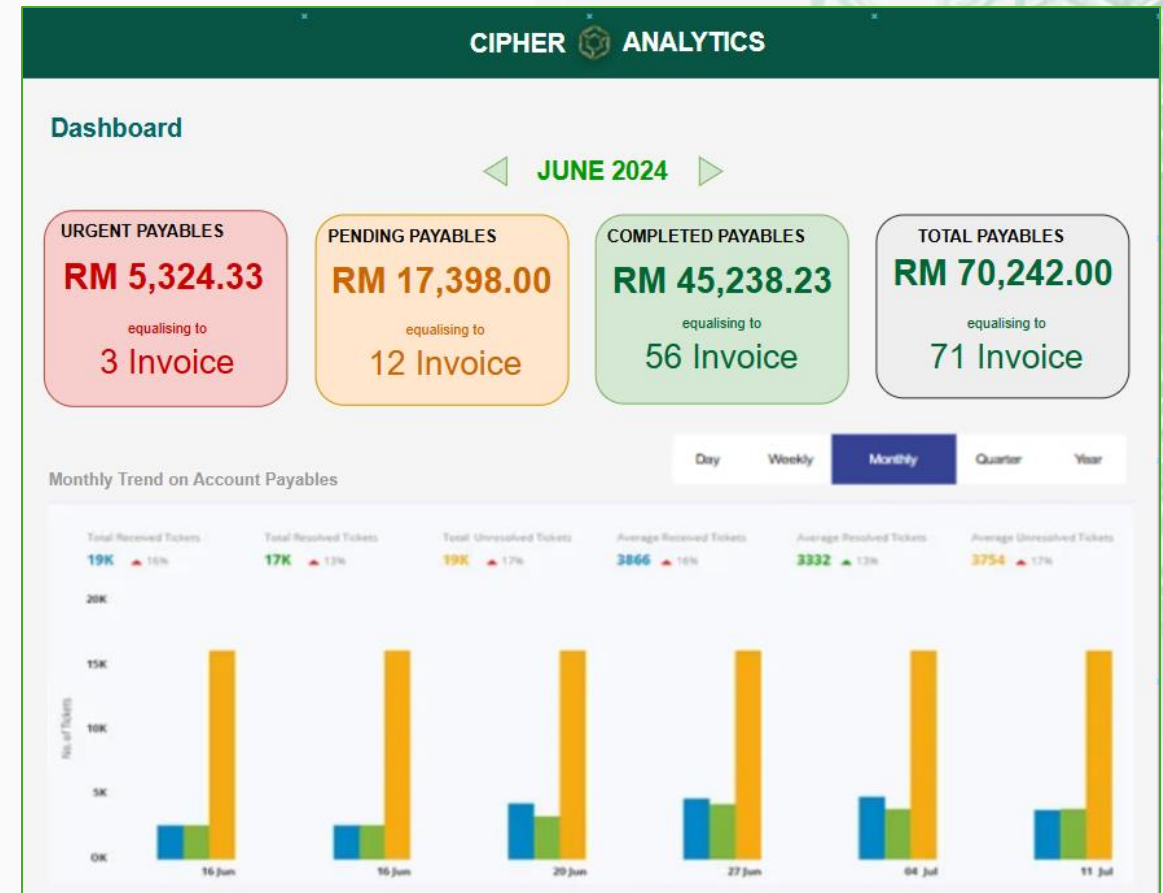
Cipher Analytics Dashboard provides the real-time updated overview of the current account payables in various condition, categorized into URGENT, PENDING, COMPLETED and OVERDUE. It enables easy report generation and immediate action to clear off the currently PENDING and URGENT payables.

Key Features of the Dashboard:

- Total Confirmed Payables
- Current Pending and Completed payables
- Last Update Timestamp
- Monthly Trend Analysis

Benefits of the Dashboard:

- Helps to prioritize to complete payables near its respective credit terms.
- Provide real-time insights on payable amount trends.
- Enable predictive analysis to find out any reducible cost and payables.



Case Study 2:

Insurance Processing with claimable/non-claimable item

HOSPITAL CHARGES									
CODE	DESCRIPTION	DATE	TAX CODE	QTY	AMOUNT	DISCOUNT	TOTAL (EXCL.TAX)	TAX	TOTAL (INCL.TAX)
10	BED				22,780.00	0.00	22,780.00	0.00	22,780.00
20	PHARMACY				112,006.41	0.00	112,006.41	0.00	112,006.41
30	LABORATORY				27,406.00	0.00	27,406.00	0.00	27,406.00
40	RADIOLOGY				9,396.70	0.00	9,396.70	0.00	9,396.70
50	REHABILITATION				2,331.50	0.00	2,331.50	0.00	2,331.50
60	PHARMACY - DRUGS FORMULARY				3,681.87	0.00	3,681.87	0.00	3,681.87
60	SPECIAL DIAGNOSTICS				99.00	0.00	99.00	0.00	99.00
80	DIETETICS				496.00	0.00	496.00	0.00	496.00
85	DRUGS: CONSIGNMENT (PRDCAT)				15,029.00	0.00	15,029.00	0.00	15,029.00
90	ENDOSCOPY				816.65	0.00	816.65	0.00	816.65
98	MEDICAL ONCOLOGY				70.00	0.00	70.00	0.00	70.00
100	HOSPITAL SUPPORT FEES				7,653.00	0.00	7,653.00	0.00	7,653.00
105	SURGICAL SUPPLIES				2,239.45	0.00	2,239.45	0.00	2,239.45
110	MEDICAL SUPPLIES				6,470.06	0.00	6,470.06	0.00	6,470.06
115	MEDICAL GASES				68.00	0.00	68.00	0.00	68.00
120	EQUIPMENT USAGE				3,341.00	0.00	3,341.00	0.00	3,341.00
140	OPERATING THEATRE				2,705.00	0.00	2,705.00	0.00	2,705.00
170	NON MEDICAL CHARGES				241.00	0.00	241.00	0.00	241.00
190	AMBULANCE CHARGES				2,600.00	0.00	2,600.00	0.00	2,600.00
200	ACCIDENT & EMERGENCY DEPARTMENT				713.00	0.00	713.00	0.00	713.00
210	GENERAL SERVICES/PROCEDURES				17,048.80	0.00	17,048.80	0.00	17,048.80
211	PROCEDURES				7,632.00	0.00	7,632.00	0.00	7,632.00
405	LIMITED PACKAGE DISCOUNTS				(968.00)	0.00	(968.00)		(968.00)
500	REGISTRATION FEES				40.00	0.00	40.00	0.00	40.00
10150	GENERAL - EQUIPMENT				234.00	0.00	234.00	0.00	234.00
10170	MEDICAL DISPOSABLES (INVENTORY)				1,756.00	0.00	1,756.00	0.00	1,756.00
15040	CSSD STERILE CONSUMABLES				41.00	0.00	41.00	0.00	41.00
16120	A&E - PROCEDURES				193.60	0.00	193.60	0.00	193.60
17060	ENDOSCOPY - PROCEDURES				40.00	0.00	40.00	0.00	40.00
17090	ENDOSCOPY - FACILITY				30.00	0.00	30.00	0.00	30.00
21009	RADIOLOGY - INTERVENTION VASCULAR				1,699.00	0.00	1,699.00	0.00	1,699.00

CLAIMABLE ?



TOTAL AMOUNT: \$\$\$\$
 TOTAL CLAIMABLE: \$\$
 TOTAL NON-CLAIMABLE: \$\$\$

Insurance Processing

This study case & use case is to process insurance (Performa Invoice) document, indicating claimable and non-claimable items.

Original Document:

INTERIM BILL-SUMMARY

Printed on : 26/10/2021 11:17 AM

Name		GL Ref No	: 264906-1/IGL/1
IC No		Policy No	:
MRN		Registered At	: 04/08/2021 17:40:00
Visit ID	: A210029574	Discharged At	: 23/10/2021 19:23:21

HOSPITAL CHARGES

CODE	DESCRIPTION	DATE	TAX CODE	QTY	AMOUNT	DISCOUNT	TOTAL (EXCL.TAX)	TAX	TOTAL (INCL.TAX)
10	BED				22,780.00	0.00	22,780.00	0.00	22,780.00
20	PHARMACY				112,006.41	0.00	112,006.41	0.00	112,006.41
30	LABORATORY				27,406.00	0.00	27,406.00	0.00	27,406.00
40	RADIOLOGY				9,396.70	0.00	9,396.70	0.00	9,396.70
50	REHABILITATION				2,331.50	0.00	2,331.50	0.00	2,331.50
60	PHARMACY - DRUGS FORMULARY				3,681.87	0.00	3,681.87	0.00	3,681.87
60	SPECIAL DIAGNOSTICS				99.00	0.00	99.00	0.00	99.00
80	DIETETICS				496.00	0.00	496.00	0.00	496.00
85	DRUGS- CONSIGNMENT (PROCAT)				15,029.00	0.00	15,029.00	0.00	15,029.00
90	ENDOSCOPY				816.65	0.00	816.65	0.00	816.65
98	MEDICAL ONCOLOGY				70.00	0.00	70.00	0.00	70.00
100	HOSPITAL SUPPORT FEES				7,653.00	0.00	7,653.00	0.00	7,653.00
105	SURGICAL SUPPLIES				2,239.45	0.00	2,239.45	0.00	2,239.45
110	MEDICAL SUPPLIES				6,470.06	0.00	6,470.06	0.00	6,470.06
115	MEDICAL GASES				68.00	0.00	68.00	0.00	68.00
120	EQUIPMENT USAGE				3,341.00	0.00	3,341.00	0.00	3,341.00
140	OPERATING THEATRE				2,705.00	0.00	2,705.00	0.00	2,705.00
170	NON MEDICAL CHARGES				241.00	0.00	241.00	0.00	241.00
190	AMBULANCE CHARGES				2,600.00	0.00	2,600.00	0.00	2,600.00
200	ACCIDENT & EMERGENCY DEPARTMENT				713.00	0.00	713.00	0.00	713.00
210	GENERAL SERVICES/PROCEDURES				17,048.80	0.00	17,048.80	0.00	17,048.80
211	PROCEDURES				7,632.00	0.00	7,632.00	0.00	7,632.00
405	LIMITED PACKAGE DISCOUNTS				(968.00)	0.00	(968.00)	0.00	(968.00)
500	REGISTRATION FEES				40.00	0.00	40.00	0.00	40.00
10150	GENERAL - EQUIPMENT				234.00	0.00	234.00	0.00	234.00
10170	MEDICAL DISPOSABLES (INVENTORY)				1,756.00	0.00	1,756.00	0.00	1,756.00
15040	CSSD STERILE CONSUMABLES				41.00	0.00	41.00	0.00	41.00
16120	A&E - PROCEDURES				193.60	0.00	193.60	0.00	193.60
17060	ENDOSCOPY - PROCEDURES				40.00	0.00	40.00	0.00	40.00
17090	ENDOSCOPY - FACILITY				30.00	0.00	30.00	0.00	30.00
21009	RADIOLOGY - INTERVENTION VASCULAR				1,699.00	0.00	1,699.00	0.00	1,699.00

Master Data List (claimable / non-claimable)

DAYBED	DAYWARD	Room & Board	COVER
DAYCDBD	DAYWARD	Room & Board	COVER
DAYEBED	DAYWARD	Room & Board	COVER
ESUITE	EXECUTIVE SUITE	Room & Board	COVER
ESUITE2S	EXECUTIVE SUITE	Room & Board	COVER
ESUITE3S	EXECUTIVE SUITE	Room & Board	COVER
PSUITE	PREMIER SUITE	Room & Board	COVER
PSUITE2S	PREMIER SUITE	Room & Board	COVER
PSUITE3S	PREMIER SUITE	Room & Board	COVER
SINGLESTD	SINGLE STANDARD	Room & Board	COVER
SINGLESTD2S	SINGLE STANDARD	Room & Board	COVER
SINGLESUP	SINGLE SUPERIOR	Room & Board	COVER
SINGLESUP2S	SINGLE SUPERIOR	Room & Board	COVER
SINGLESUP3S	SINGLE SUPERIOR	Room & Board	COVER
TEMPBD	TEMPORARY ROOM	Room & Board	COVER
HDBED	HDU	Room & Board	COVER
ICUBED	ICU / CCU	Room & Board	COVER
NICUBED	NICU	Room & Board	COVER
NURBED	BASSINETTE	Room & Board	NONCOVER
NURSINCU	INCUBATOR	Room & Board	NONCOVER
ISOROOM	ISOLATION ROOM	Room & Board	COVER
MISC0049	SEGREGATED ROOM	Room & Board	COVER
C19ISOROOM	C19 ISOLATION ROOM	Room & Board	COVER

Extracted Data:

		Quantity	Unit Price	Total Amount
07-JAN-2024	CLINICAL WASTE DISPOSAL - WARD	1	25.00	23.75
07-JAN-2024	INFUSION PUMP	1	90.00	85.50
07-JAN-2024	INTRAFIX SAFESET WITH CARESITE	4	57.25	54.39
07-JAN-2024	IV-OMN-FLUSH 10ML	1	5.25	4.99
07-JAN-2024	IV-SODIUM CHLORIDE 0.9% 100ML	4	144.00	136.80
07-JAN-2024	VITAL SIGNS MONITOR (PER DAY)	1	30.00	28.50
08-JAN-2024	CLINICAL WASTE DISPOSAL - WARD	1	25.00	23.75
08-JAN-2024	COMBI RED STOPPER	2	7.50	7.12
08-JAN-2024	INFUSION PUMP	1	90.00	85.50
08-JAN-2024	INTRAFIX SAFESET WITH CARESITE	4	57.25	54.39
08-JAN-2024	IV-SODIUM CHLORIDE 0.9% 1000ML	1	36.00	34.20
08-JAN-2024	UNDERPAD, DISPOSABLE 30INCH X 30INCH	5	24.69	23.46
08-JAN-2024	UNIFINE PENTIPS 5MM X 31G	1	3.75	3.56
08-JAN-2024	VITAL SIGNS MONITOR (PER DAY)	1	30.00	28.50

Post Processed Data:

		Quantity	Unit Price	Total Amount
07-JAN-2024	CLINICAL WASTE DISPOSAL - WARD	1	25.00	23.75
07-JAN-2024	INFUSION PUMP	1	90.00	85.50
07-JAN-2024	INTRAFIX SAFESET WITH CARESITE	4	57.25	54.39
07-JAN-2024	IV-OMN-FLUSH 10ML	1	5.25	4.99
07-JAN-2024	IV-SODIUM CHLORIDE 0.9% 100ML	4	144.00	136.80
07-JAN-2024	VITAL SIGNS MONITOR (PER DAY)	1	30.00	28.50
08-JAN-2024	CLINICAL WASTE DISPOSAL - WARD	1	25.00	23.75
08-JAN-2024	COMBI RED STOPPER	2	7.50	7.12
08-JAN-2024	INFUSION PUMP	1	90.00	85.50
08-JAN-2024	INTRAFIX SAFESET WITH CARESITE	4	57.25	54.39
08-JAN-2024	IV-SODIUM CHLORIDE 0.9% 1000ML	1	36.00	34.20
08-JAN-2024	UNDERPAD, DISPOSABLE 30INCH X 30INCH	5	24.69	23.46
08-JAN-2024	UNIFINE PENTIPS 5MM X 31G	1	3.75	3.56
08-JAN-2024	VITAL SIGNS MONITOR (PER DAY)	1	30.00	28.50

Total Claimable Amount: RM xxx
Total Non-Claimable Amount: RM xxx
Total Bill Amount: RM xxxx

Save data into AP/AR.

Case Study 3: Automated Document Management Workflow



Automated Document Management

This study case aims to generate clean document structure for easy document retrievals, by primarily outputting the metadata TXT file for folder distributing. Folders can be generated based on **Vendor Names** and store all invoices accordingly to document output.

1. Cipher Extracted Value

VENDOR NAME

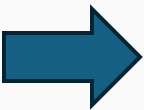
EZYTRONIC SDN BHD
200701038403 (76433-W)

ISSUED DATE

22-01-2024

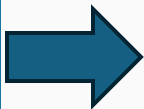
INVOICE NO

INV148838
242429



2. Output Metadata Pipeline Delimiter TXT File

03-04-2024_Export - Notepad				
File	Edit	Format	View	Help
GST 4328	AUO CORPORATION	M022269895		03-04-2024
GST 4328	FORMOSA PROSONIC INDUSTRIES BERHAD	1124003218		03-04-2024
GST 4328	BOE TECHNOLOGY (HK) LIMITED	3120090709		03-04-2024
GST 4328	CHIYODA INTEGRE CO. (M) SDN BHD	SI1000283319		03-04-2024
GST 4328	MEGA SQUARE SDN BHD	SOEM 9663K		03-04-2024
GST 4328	SANSHIN (MALAYSIA) SDN BHD	40072776		03-04-2024
GST 4328	SANSHIN (MALAYSIA) SDN BHD	40072775		03-04-2024
GST 4328	BOE TECHNOLOGY (HK) LIMITED	500114525		03-04-2024
GST 4328	SANSHIN (MALAYSIA) SDN BHD	40072772		03-04-2024
GST 4328	SANSHIN (MALAYSIA) SDN BHD	40072770		03-04-2024
GST 4328	ENTRUST PRECISION (M) SDN BHD	E2404007		03-04-2024
GST 4328	BOE TECHNOLOGY (HK) LIMITED	3120090572		03-04-2024
GST 4328	SAMSUNG ELECTRO-MECHANICS JAPAN CO LTD	TG12430079		03-04-2024
GST 4328	SANSHIN (MALAYSIA) SDN BHD	40072777		03-04-2024
GST 4328	ALPS ELECTRIC (MALAYSIA) SDN BHD	62929261		03-04-2024
GST 4328	BOE TECHNOLOGY (HK) LIMITED	500114524		03-04-2024
GST 4328	SANSHIN (MALAYSIA) SDN BHD	40072774		03-04-2024
GST 4328	SANKO SANGYO (MALAYSIA) SDN BHD	411046		03-04-2024
GST 4328	GPM TECHNOLOGY SDN. BHD.	10012237		03-04-2024
GST 4328	CHIYODA INTEGRE CO. (M) SDN BHD	SI1000283320		03-04-2024
GST 4328	CHIYODA INTEGRE CO. (M) SDN BHD	SI1000283342		03-04-2024
GST 4328	BOE TECHNOLOGY (HK) LIMITED	500114523		03-04-2024
GST 4328	CHIYODA INTEGRE CO. (M) SDN BHD	SI1000283343		03-04-2024
GST 4328	SANKO SANGYO (MALAYSIA) SDN BHD	411045		03-04-2024
GST 4328	SANSHIN (MALAYSIA) SDN BHD	40072771		03-04-2024
GST 4328	ALPS ELECTRIC (MALAYSIA) SDN BHD	62929263		03-04-2024
GST 4328	FORMOSA PROSONIC INDUSTRIES BERHAD	1124003216		03-04-2024
GST 4328	BOE TECHNOLOGY (HK) LIMITED	3120090708		03-04-2024
GST 4328	ALPS ELECTRIC (MALAYSIA) SDN BHD	62929262		03-04-2024
GST 4328	ASAHI BEST BASE SDN. BHD.	ABB-24-00744		03-04-2024
GST 4328	SANSHIN (MALAYSIA) SDN BHD	40072773		03-04-2024



3. Document Folder Distribution & Management

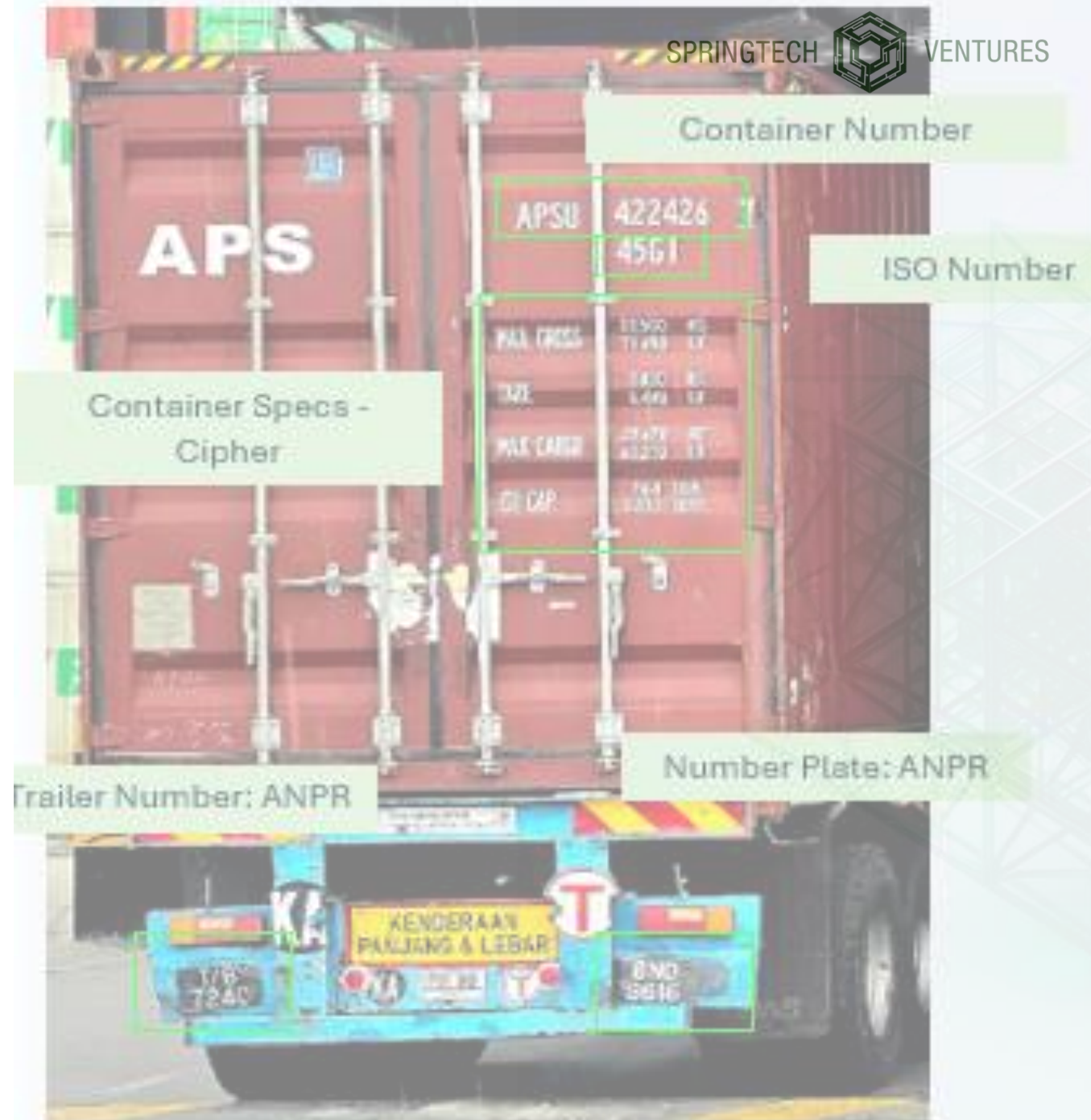
(a) Rename PDF

Name	Date modified
 411045-SANKO SANGYO (MALAYSIA) SD...	11/22/2024 4:19 PM
 411046-SANKO SANGYO (MALAYSIA) SD...	11/22/2024 4:19 PM
 10012237-GPM TECHNOLOGY SDN. BHD...	11/22/2024 4:19 PM
 40072770-SANSHIN (MALAYSIA) SDN BH...	11/22/2024 4:19 PM
 40072771-SANSHIN (MALAYSIA) SDN BH...	11/22/2024 4:19 PM
 40072772-SANSHIN (MALAYSIA) SDN BH...	11/22/2024 4:19 PM
 40072773-SANSHIN (MALAYSIA) SDN BH...	11/22/2024 4:19 PM

(b) Sort Invoices into folders, based on Vendor Names

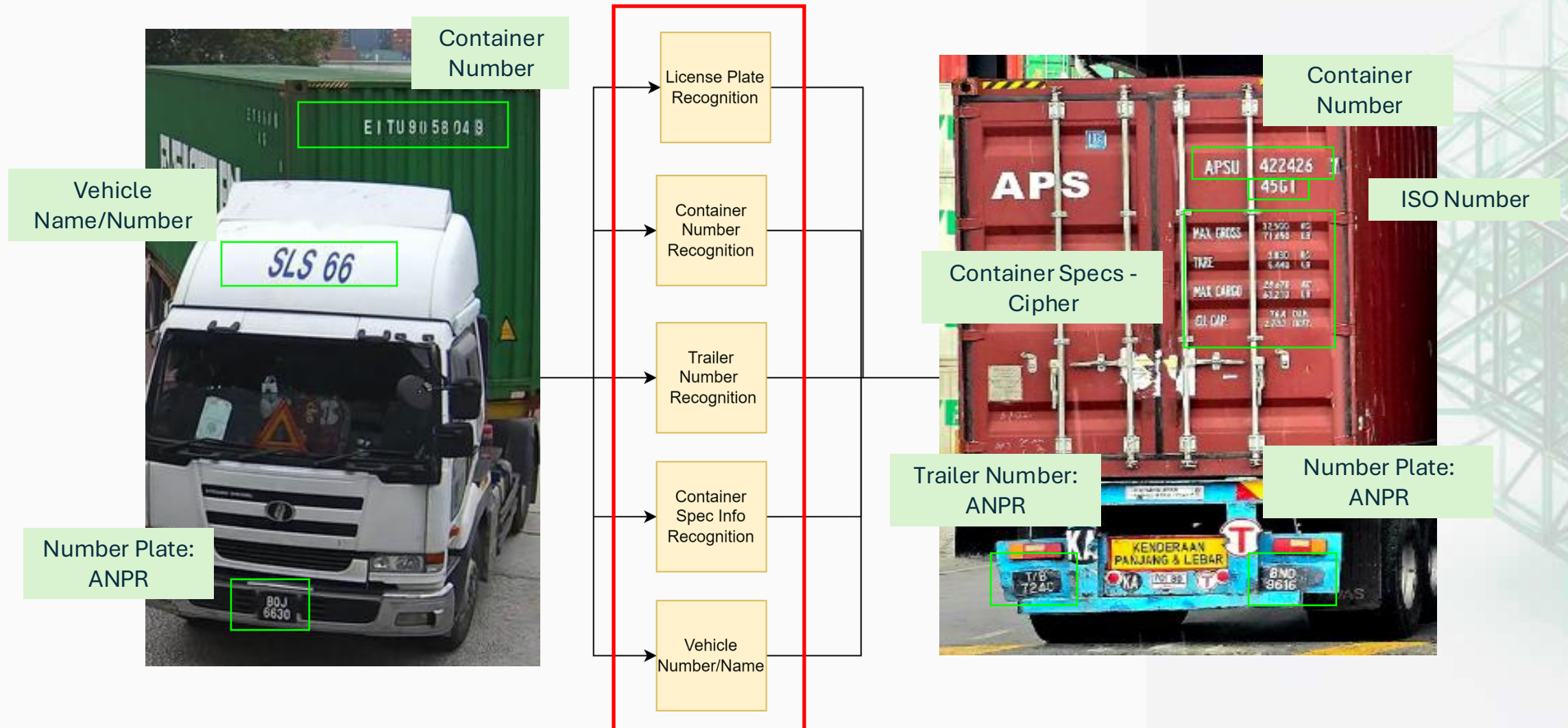
☐ Name	Status
 ALPS TECHNOLOGY (MALAYSIA)	
 AUO CORPORATION	
 BOE TECHNOLOGY	
 CHIYODA INTEGRE CO. (M) SDN BHD	
 FORMOSA PROSONIC	
 MEGA SQUARE SDN BHD	
 SANDKO SANGYO	

Case Study 4: Smart Port Revolutionizing with Cipher Detection



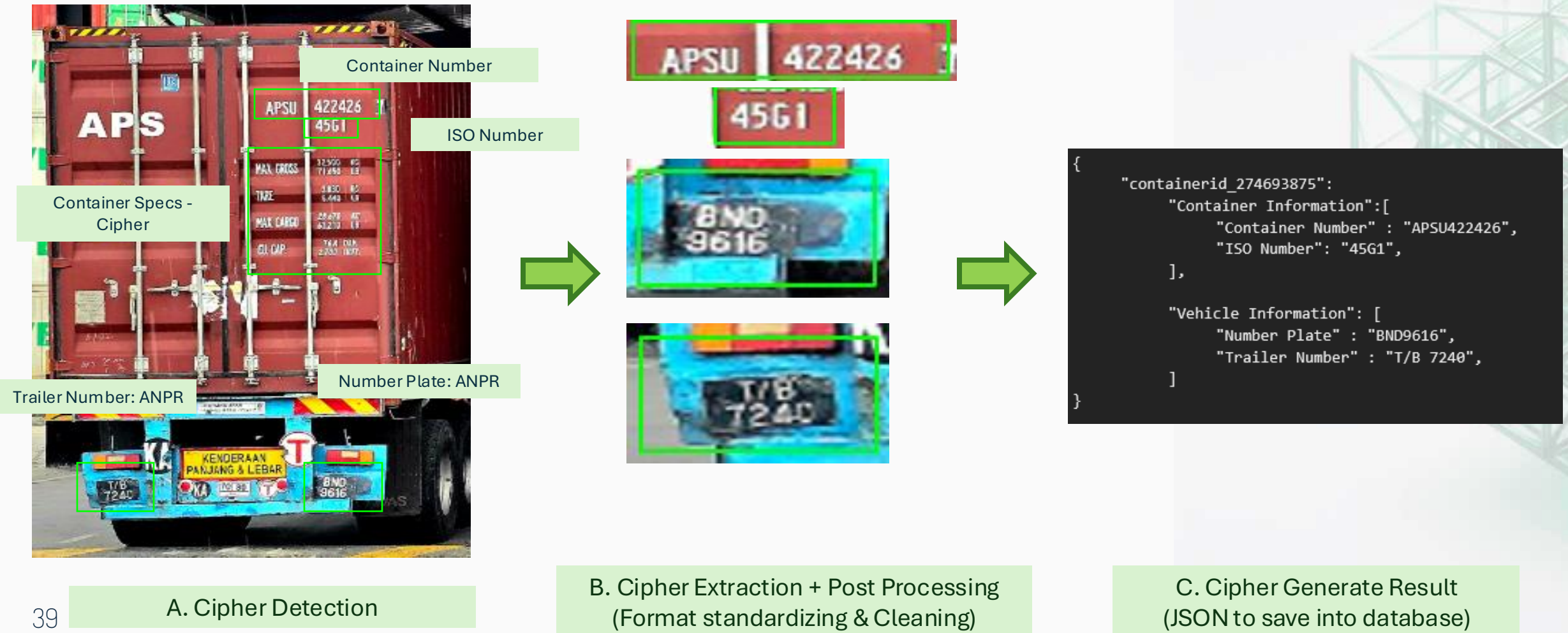
Truck & Container Detail Extraction

Combine Cipher Detection within surveillance camera (CCTVs)



Truck & Container Detail Extraction

Technical Workflow within the concept is shown as below:



D. Output to 3rd Party Application

- Transfer JSON information to frontend display for easy viewing.
- Customizable to 3rd party application

Container Information

Including Company Name, Container No, DO No, Car Plate No, Weighing Type, Weight and the status of the Security Slip.

- Best for data checking for an overview.

PacketDCS

Container Number



Container Details

Company Name:

Container No:

DO No.:

Car Plate No.:

Weighing Type:

Weight:

Security Seal:

DSZU180127

KR4321224

hi

in

0

Container No. and Do No. both do not match with manifest or There are more than one container damage detected!

Check In (12:55:10 PM)

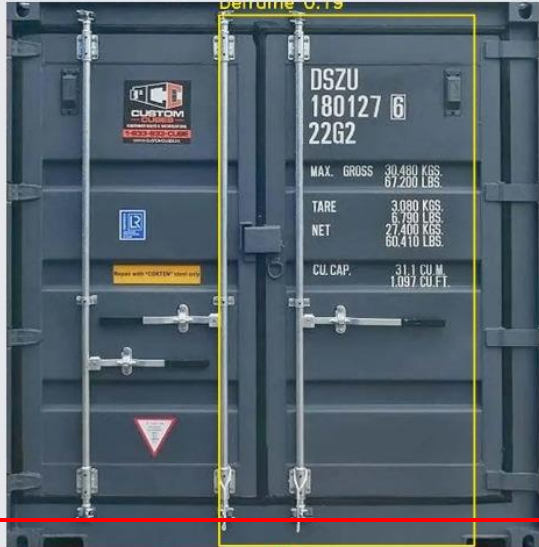
CDI

REAR VIEW

Deframe

Remarks

← Live View



FRONT VIEW

TOP VIEW

LEFT VIEW

RIGHT VIEW

REAR VIEW







Container & Vehicle Images

Live Captured by cameras with different angles

D. Save Data to System to Generate Reporting

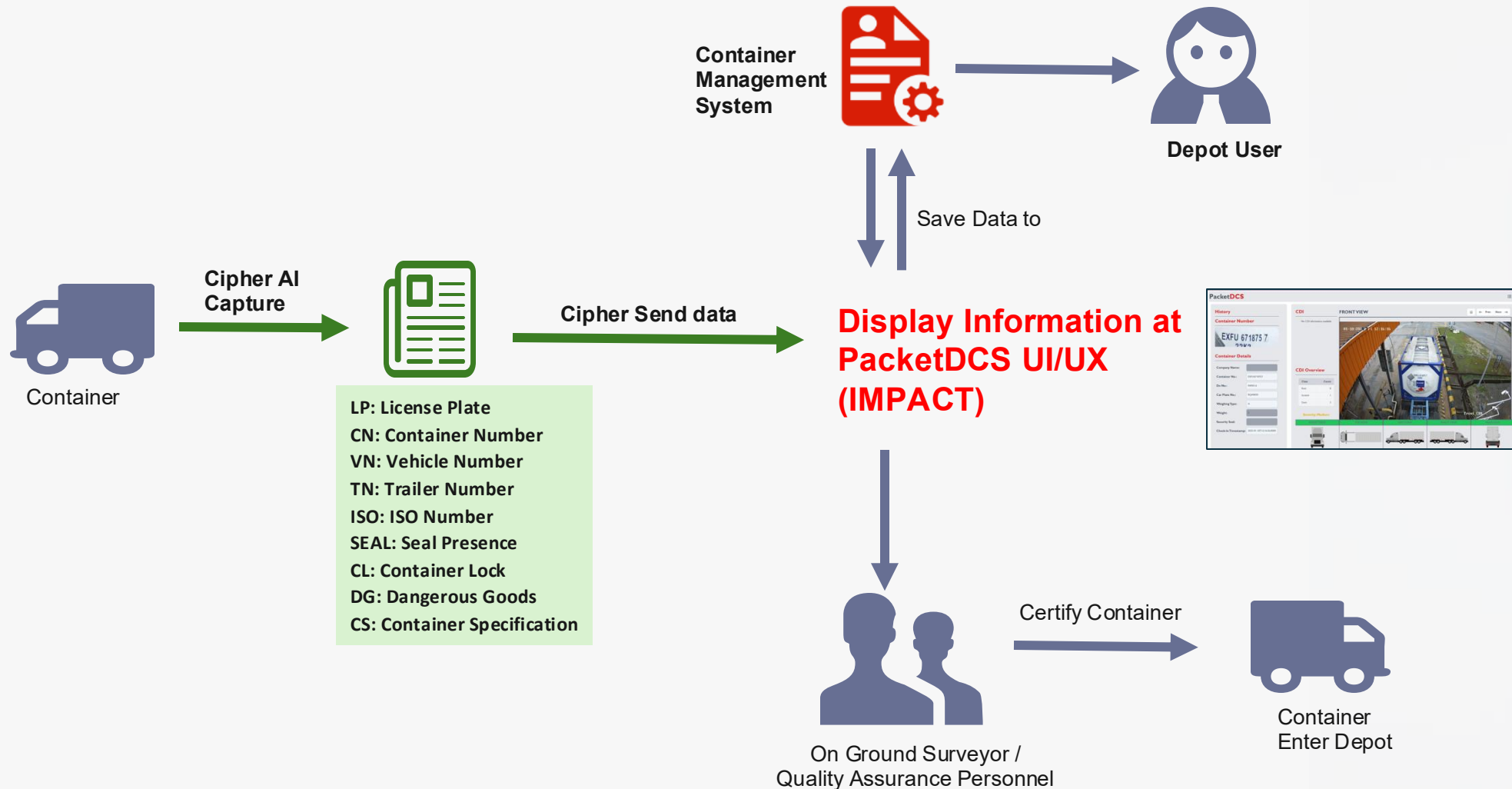
- Export filtered time range to CSV to generate an overall report.
- Easy viewing all containers and vehicle information available within.

index	created_at	license_plate	ve	container_number	iso	trailer_num
24	2025-02-22 8:35:52	VNG2431		TGBU6084724	45G1	T/BG941

gross	tare	net	cube
32.500KGS,71.650LBS	3.700KG,8.160LB	28.800KGS,63.490LBS	76.3CU.M,2.693CU.FT



Integration of Cipher & Container Management System



CIPHER  SCANNING

SPRINGTECH  VENTURES

CIPHER  CLOUD

Appendix:

- A. Supporting Doc Input*
- B. Supporting Doc Output*

SPRINGTECH VENTURES

- *Physical to PDF (ScanDocs)*
- *Words to PDF (Searchable)*

 PANTAI HOSPITAL Cheras	ADMISSION INFORMATION	☐ INPATIENT
	MRN : 0302015313	☒ DAYCARE

Private & Confidential Information

Date of Admission: 16/4/15
 Time of Admission: 7am

Diagnosis: gashin + waleh

Nature of Operation: OADS + wavy under sedation

Date and Time of Operation: 16/4/15 9am

Type of Anaesthesia Required:
 Genetal (Major) ☐
Local ☐
Spinal ☐

General (Minor) ☐

Instruction to Ward Staff :

- 2hr oxygen room

- Blood test / urine test

- w/ sedation / CR

- ECG

44

Supporting Doc Input

A. PDF

- Signature for validation / detection
- Barcode for validation / detection



PANTAI HOSPITAL
Cheras

CHECK LIST FOR PATIENT'S MEDICAL RECORDS

P/C Info

151P84888583



Discharge Date: 16/4/15

Discharge Time: 16:50

Please tick (✓)

Please tick (✓)

Customer Account: 300-M0015

Sales Executive: ----

Currency: RM

Name: JESSICA

Page No: 1 of 1

Invoice No: 38015477

Date: 28/05/2024

No	Item Code	Description	Qty	Price/Unit	Discount	Total Price
1	Monitor	Acer NITRO VG270 E 27" Monitor	1.00 UNIT	510.00		510.00
2	Keyboard & Mouse	Logitech MK235 Durable Wireless Keyboard and Mouse Combo	1.00 UNIT	87.00		87.00

Pls refer P.O : MTT24-032

Attn : Mr Anderson

Received date	28 MAY 2024
Verified by	
Approved by	
Posted by	
Booking no.	

RINGGIT MALAYSIA : FIVE HUNDRED AND NINETY SEVEN ONLY

Payment Terms : 30 Days

Ref 1 :

Ref 2 :

Ref 3 :

Ref 4 :


28/May/2024

Total Dueable
597.00

MTT RUMA

Authorized Signature
AQ Solutions (M) Sdn Bhd (53045-T)

Supporting Doc Input

B. HTML / Saved Public Weblink

- (a) Research Paper / Literature Review
- Find for important content or phases required

pdf.sciencedirectassets.com/271677/1-s2.0-S0268401221000047/1-s2.0-S0268401221000761/main.pdf?X-Amz-Security-Token=IQoJb3JpZ2luX2VjEL7%2F%2F...

research: A systematic literature review and r... 3 / 17 110% +

C. Collins et al. International Journal of Information Management 60 (2021) 102383

Table 1
Comparison of previous SLRs in IS.

Comparison Element	Purpose	Years Included	Number of primary studies
Rzepka and Berger (2018)	Provides insight into individual user interaction with AI systems in IS.	1987–2017	91
Hofmann et al. (2019)	Identifies opportunities and challenges of ML across the radiology value chain.	2012–2018	29
Borges et al. (2021)	Studies the integration of AI and organisational strategy.	2009–2020	41
Karger (2020)	Studies the interactions between Blockchain and AI.	Not specified (primary studies ranged from 2014 to 2020)	32
This Study	AI, as a subject and as a use in the field of IS	2005–2020	98

by Hofmann et al. (2019) was primarily concerned with the effects of AI and ML in the context of the radiology value chain, and so had a time span reflecting that, focusing on 2012 to 2018. The review conducted by Borges et al. (2021) focused more on specific AI interactions with organisational strategy and so misses some of the context in how it is being defined and how it creates value. The literature review conducted by Karger (2020) is focused narrowly on the relations between AI and blockchain and excludes everything else. This study includes all the relevant studies in a fifteen year period in a number of high quality journals and conferences, and includes studies that use AI in more oblique ways than these SLRs, such as studies that use machine learning approaches when researching their focus.

Already, studies are showing the potential opportunities of adopting AI in a wide range of fields, with manufacturing, digital marketing and healthcare generating considerable academic interest (Juniper Research, 2018). For manufacturing, factories are likely to extensively use AI as product automation increases and industry uses more AI and cyber physical systems (Wang & Wang, 2016). Healthcare researchers propose using AI systems linked to sensors placed on humans to monitor and record their health (Rubik & Jabs, 2018). For digital marketing, Juniper Research (2018) predicts that demand forecasting using AI will more than treble between 2019 and 2023 and that chatbot interactions will reach 22 billion in the same year from current levels of 2.6 billion. However, these opportunities are only available if one can understand what AI is.

3. Research methodology

This section outlines the systematic review process adopted for this study. A Systematic Literature Review is defined as “means of identifying, evaluating and interpreting all available research relevant to a particular research question, or topic area, or phenomenon of interest” (Kitchenham, 2004). This systematic approach was chosen for its ability to offer reviews of high quality (Dingsøyr & Dybå, 2008) and transparent and replicable review (Leidner & Kayworth, 2006). Additionally, it is useful for studies with a clearly formulated research question (Petticrew & Roberts, 2006) and summarising large quantities of research studies (Fink, 2005). Thus, the SLR was chosen for the following reasons: (i) the study will generate large amounts of literature; (ii) this study aims to answer a specific research question; (iii) we intend to systematically extract relevant AI references from the studies transparently; and (iv) the rigour and replicability it offers leads to an unbiased scientific study. The foundation of our guide was taken from the guideline developed by Okoli (2015).

- (b) Online News
Extract key points and key contents from html link provided.

sinchew.com.my/news/20250326/nation/6403399

国内 | 即时国内
发布: 1:51pm 26/03/2025 14点阅
巴生河 炼毒中心 污水 芬太尼 丧尸毒品

“丧尸毒品”入侵大马 巴生河污水分析现芬太尼



阿育汉 (左二) 披露, 警方在巴生河流域地区进行污水分析时发现丧尸毒品已出现在我国。(中国报)

(八打灵再也26日讯) 警方早前在巴生河流域地区对污水进行分析时发现冰毒和芬太尼成分, 相信这种被称为“丧尸毒品”, 比吗啡强效100倍的“芬太尼” (fentanyl) 已出现在我国。

全国副总警长拿督斯里阿育汉指出, 警方毒品罪案调查部与马来西亚国立大学联手进行的这项检测和分析, 显示巴生河流域地区或有炼毒中心的存在。

巴生河流域地区或有炼毒中心

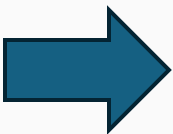
他今日出席警方与国立大学有关法证科学的教育与研究战略合作项目指导委员会会议后说, 这项检测工作将扩展至全国各地, 以进一步分析巴生河流域以外地区的污水, 是否也有芬太尼。

“这项检测和分析工作将通过TimsTOF Pro 2 捕集离子淌度质谱仪进行, 目前除了巴生河流域地区, 警方也在柔佛也发现同样的成分。”

Supporting Doc Output

A. Metadata Pipeline Delimiter TXT File

03-04-2024_Export - Notepad				
File	Edit	Format	View	Help
GST 4328		AUO CORPORATION		M022269895 03-04-2024
GST 4328		FORMOSA PROSONIC INDUSTRIES BERHAD		1124003218 03-04-2024
GST 4328		BOE TECHNOLOGY (HK) LIMITED		3120090709 03-04-2024
GST 4328		CHIYODA INTEGRE CO. (M) SDN BHD		SI1000283319 03-04-2024
GST 4328		MEGA SQUARE SDN BHD		SOEM 9663K 03-04-2024
GST 4328		SANSHIN (MALAYSIA) SDN BHD		40072776 03-04-2024
GST 4328		SANSHIN (MALAYSIA) SDN BHD		40072775 03-04-2024
GST 4328		BOE TECHNOLOGY (HK) LIMITED		500114525 03-04-2024
GST 4328		SANSHIN (MALAYSIA) SDN BHD		40072772 03-04-2024
GST 4328		SANSHIN (MALAYSIA) SDN BHD		40072770 03-04-2024
GST 4328		ENTRUST PRECISION (M) SDN BHD		E2404007 03-04-2024
GST 4328		BOE TECHNOLOGY (HK) LIMITED		3120090572 03-04-2024
GST 4328		SAMSUNG ELECTRO-MECHANICS JAPAN CO LTD		TG12430079 03-04-2024
GST 4328		SANSHIN (MALAYSIA) SDN BHD		40072777 03-04-2024
GST 4328		ALPS ELECTRIC (MALAYSIA) SDN BHD		62929261 03-04-2024
GST 4328		BOE TECHNOLOGY (HK) LIMITED		500114524 03-04-2024
GST 4328		SANSHIN (MALAYSIA) SDN BHD		40072774 03-04-2024
GST 4328		SANKO SANGYO (MALAYSIA) SDN BHD		411046 03-04-2024
GST 4328		GPM TECHNOLOGY SDN. BHD.		10012237 03-04-2024
GST 4328		CHIYODA INTEGRE CO. (M) SDN BHD		SI1000283320 03-04-2024
GST 4328		CHIYODA INTEGRE CO. (M) SDN BHD		SI1000283342 03-04-2024
GST 4328		BOE TECHNOLOGY (HK) LIMITED		500114523 03-04-2024
GST 4328		CHIYODA INTEGRE CO. (M) SDN BHD		SI1000283343 03-04-2024
GST 4328		SANKO SANGYO (MALAYSIA) SDN BHD		411045 03-04-2024
GST 4328		SANSHIN (MALAYSIA) SDN BHD		40072771 03-04-2024
GST 4328		ALPS ELECTRIC (MALAYSIA) SDN BHD		62929263 03-04-2024
GST 4328		FORMOSA PROSONIC INDUSTRIES BERHAD		1124003216 03-04-2024
GST 4328		BOE TECHNOLOGY (HK) LIMITED		3120090708 03-04-2024
GST 4328		ALPS ELECTRIC (MALAYSIA) SDN BHD		62929262 03-04-2024
GST 4328		ASAHI BEST BASE SDN. BHD.		ABB-24-00744 03-04-2024
GST 4328		SANSHIN (MALAYSIA) SDN BHD		40072773 03-04-2024



Possible Usage

(a) Rename PDF

Name	Date modified	Type	✓	Size
 411045-SANKO SANGYO (MALAYSIA) SD...	11/22/2024 4:19 PM	Microsoft Edge P...		440 KB
 411046-SANKO SANGYO (MALAYSIA) SD...	11/22/2024 4:19 PM	Microsoft Edge P...		431 KB
 10012237-GPM TECHNOLOGY SDN. BHD...	11/22/2024 4:19 PM	Microsoft Edge P...		70 KB
 40072770-SANSHIN (MALAYSIA) SDN BH...	11/22/2024 4:19 PM	Microsoft Edge P...		336 KB
 40072771-SANSHIN (MALAYSIA) SDN BH...	11/22/2024 4:19 PM	Microsoft Edge P...		347 KB
 40072772-SANSHIN (MALAYSIA) SDN BH...	11/22/2024 4:19 PM	Microsoft Edge P...		345 KB
 40072773-SANSHIN (MALAYSIA) SDN BH...	11/22/2024 4:19 PM	Microsoft Edge P...		347 KB

(b) Sort Invoices into documents, based on Vendor names

☐ Name	Status
 ALPS TECHNOLOGY (MALAYSIA)	
 AUO CORPORATION	
 BOE TECHNOLOGY	
 CHIYODA INTEGRE CO. (M) SDN BHD	
 FORMOSA PROSONIC	
 MEGA SQUARE SDN BHD	
 SANDKO SANGYO	

Supporting Doc Output

B. Export into CSV for Report Generation

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Shipper N	Shipper Address	Consignee Name	Consignee Address	Notify Par	Notify Par	POL Name	POFD Nan	Marks and	Freight Te	Weight KG	Measuren	Container	Seal No	Description	Code	
LONGSON	B-9-3, PJ8 BLOCK B WEST, NO.23, JALAN BARAT, SEKSYEN 8, 46050 PETALING JAYA SELANGOR	CHOON HUA FOOD PF	LOT 822, BLOCK 7, LORONG DEMAK LAUT 3 MTLD DEMAK LAUT INDUSTRIAL PARK 93050 KUCHING, SARAWAK	SAME AS C	NIL	PORT KLA	KUCHING	N/M	FREIGHT P	13,125.00	20.39	SEGU3865	PK209117	1X 20'GP CONTAINER STC 900 PKGS FOODSTUFFS	2103.90.19.00	
														HS CODE : 2103.90.19.00		
LONGSON	B-9-3, PJ8 BLOCK B WEST, NO.23, JALAN BARAT, SEKSYEN 8, 46050 PETALING JAYA SELANGOR	CHOON HUA FOOD PF	LOT 822, BLOCK 7, LORONG DEMAK LAUT 3 MTLD DEMAK LAUT INDUSTRIAL PARK 93050 KUCHING, SARAWAK	SAME AS C	NIL	PORT KLA	KUCHING	N/M	FREIGHT P	13,125.00	20.39	SEGU3862	PK239117	1X 20'GP CONTAINER STC 950 PKGS FOODSTUFFS	2103.90.19.00	
														HS CODE : 2103.90.19.00		

CSV Export (multipage supportive) by per PDF

Supporting Doc Output

C. Export into JSON

for easy data transfer / implication across different 3rd party application

```
{
  "page_1_text_result": {
    "Invoice": [
      {
        "Vendor Name": "EZYTRONIC SDN BHD",
        "Invoice No": "INV153557"
      }
    ]
  },
  "page_1_table_result": {
    "Invoice Item List": [
      {
        "No.": "NIL",
        "Date": "NIL",
        "Item Code": "CLEARON E-CHAT 150",
        "Description": "CLEARONE CHAT 150 USB SPEAKERPHONE \n SN#:3326-2347-40",
        "Quantity": "1",
        "Tax": "0.00",
        "Tax %": "NIL",
        "Tax Code": "NIL",
        "Unit Price": "2,022.00",
        "UOM": "NIL",
        "Discount": "NIL",
        "Total Amount": "2,022.00"
      }
    ]
  }
}
```

Table + Text Export Result

```
{
  "page_1_text_result": {
    "Shipper": [
      {
        "Shipper Name": "ECO-SHOP MARKETING SDN BHD (734055-M)",
        "Shipper Address": "LOT 3913-3914 KAMPUNG SUNGAI SIPUT 85200 JEMENTAH SEGAMAT JOHOR MALAYSIA TEL: 07-9475502"
      }
    ],
    "Consignee": [
      {
        "Consignee Name": "ECO-SHOP MARKETING SDN BHD",
        "Consignee Address": "G32-G33, G59-G60 (GROUND FLOOR),\n F3 (1ST FLOOR), AIMAN MALL, LOT 125, BLK 26,\n MTLD, JALAN DATO"
      }
    ],
    "Notify Party": [
      {
        "Notify Party Name": "ENOTRANS SDN BHD",
        "Notify Party Address": "1ST FLOOR, LOT 20, BLOCK C,\n NO. 8, LORONG BUAH SALAK 4,\n HIONG TIONG INDUSTRIAL CENTRE,\n 11."
      }
    ],
    "Others": [
      {
        "POFD Name": "M3",
        "POL Name": "PORT KLANG, MALAYSIA",
        "Marks and Number": "NIL",
        "Freight Term": "NIL"
      }
    ]
  },
  "page_2_text_result": {
    "Shipper": [
      {
        "Shipper Name": "ECO-SHOP MARKETING SDN BHD (734055-M)",
        "Shipper Address": "LOT 3913-3914 KAMPUNG SUNGAI SIPUT 85200 JEMENTAH SEGAMAT JOHOR MALAYSIA TEL: 07-9475502"
      }
    ],
    "Consignee": [
      {
        "Consignee Name": "ECO-SHOP MARKETING SDN BHD",
        "Consignee Address": "LOT NO. G11 (GRD FLR), ECO MALL PETRA JAYA,\n LOT 13967, SECTION 65, KTLD JALAN SEMARIANG,\n 93050"
      }
    ]
  }
}
```

Text Export Result

THANKS!

Petaling Jaya, Selangor, Malaysia