

**PRODUK HASIL MAGANG  
PENGEMBANGAN VIRTUAL ASISTEN BERBASIS WHATSAPP  
UNTUK LAYANAN INFORMASI KEPEGAWAIAN PADA BKPSDM  
KABUPATEN LEBAK**

Disusun untuk memenuhi salah satu syarat Kelayakan seminar PKL/Magang  
pada Program Studi Informatika



Disusun oleh:

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**PROGRAM STUDI INFORMATIKA  
FAKULTAS SAINS DAN TEKNOLOGI  
UNIVERSITAS ISLAM NEGERI  
SULTAN MAULANA HASANUDDIN BANTEN  
2026**

My workflow - n8n | Dashboard | WAHA

https://n8n-lwin6tltjaz5.jkt6.sumopod.my.id/workflow/jJeskdYcPwW5FW/8b5b2a

### Edit Fields

INPUT

- WAHA Trigger
  - id: evL0tkvdm433yq2vs0dfmh84744pc
  - timestamp: 1781794999422
  - event: message
  - session: yoseptian8n
  - metadata
    - me
      - id: 6285719203575@c.us
      - pushName: Informatics
      - id: 155130628456547@lid
      - id: 62857192035751@s.whatsapp.net
  - payload
    - id: false, 267967489171571@lid, AC49A2F2434C2A349A00438A4ABAE438
    - timestamp: 1781794998
    - from: 267967489171571@lid
    - fromMe: false
    - source: app
    - body: halo

Mode: Manual Mapping

Fields to Set

- Session
  - from: {{ \$json.session }}
  - to: yoseptian8n
- Chat Id
  - from: {{ \$json.me.id }}
  - to: 6285719203575@c.us

Drag input fields here or Add Field

Include Other Input Fields: ☒

Input Fields to Include: All

Options: No properties

OUTPUT

1 item

payload

```
{
  id: false, 267967489171571@lid, AC49A2F2434C2A349A00438A4ABAE438
  timestamp: 1781794998
  from: 267967489171571@lid
  fromMe: false
  source: app
  body: halo
  to: null
  participant: null
  hasMedia: false
  media: null
  ack: 2
  location: null
  vCards: null
  ackName: DEVICE
  replyTo: null
  _data: {
    Chat: 267967489171571@lid
    Sender: 267967489171571@lid
    IsFromMe: false
    IsGroup: false
    AddressingMode: empty
  }
}
```

26°C Cerah

Chatbot BKPSDM Lebuk - n8n | database\_chatbot\_bkpsdm - Google | Beranda - Google Drive | n8n - Google Drive | Dashboard | WAHA

https://n8n-lwin6tltjaz5.jkt6.sumopod.my.id/workflow/jJeskdYcPwW5FW/d1c651

### Get row(s) in sheet in Google Sheets

INPUT

- Start Typing
  - result: true
- Wait
- Send Seen
- Edit Fields
- WAHA Trigger
- Variables and context

Mapping

Parameters

- Credential: Google Sheets account
- Tool Description: Set Automatically
- Resource: Sheet Within Document
- Operation: Get Row(s)
- Document: From list: database\_chatbot\_bkpsdm
- Sheet: From list: Sheet1
- Filters: Currently no items exist
- Combine Filters: AND
- Options: Add Filter

OUTPUT

No output data

Output will appear here once the parent node is run

15.11 22/06/2026

Chatbot BKPSDM Lebak - n8n | database\_chatbot\_bkpsdm - Google | Beranda - Google Drive | n8n - Google Drive | Dashboard | WAHA

https://n8n-twin6t1jar5.jkt6.sumopod.my.id/workflow/jJesKJcPwW5FW/c75e74

### Google Gemini Chat Model

INPUT Mapping From AI Schema Table JSON Parameters Settings

1 item

messages

messages[0] System: Kamu adalah Virtual Assistant WhatsApp resmi BKPSDM Kabupaten Lebak. \n \n Tugasmu membantu ASN, PPPK, pegawai pemerintah, maupun masyarakat yang membutuhkan informasi seputar layanan BKPSDM Kabupaten Lebak. \n \n Kamu bertindak sebagai petugas informasi digital yang ramah, profesional, cepat, dan akurat. \n \n Jika pengguna hanya mengirim: \n \n • Halo \n \n • Hai \n \n • Hi \n \n • Pagi \n \n • PP \n \n • Assalamualaikum \n \n • Selamat pagi \n \n • Selamat siang \n \n • Selamat sore \n \n • Selamat malam \n \n Maka: \n \n • JANGAN melakukan pencarian data terlebih dahulu. \n \n • JANGAN mengambil tol secara berulang. \n \n • Langsung berikan salam dan perkenalkan diri sebagai Vi...

# estimatedTokens 6054

options

google\_api\_key

lc 1

type secret

id

id[0] GOOGLE\_API\_KEY

base\_url https://generativelanguage.googleapis.com

model gemini-3-flash-preview

I wish this node would...

OUTPUT

1 item

response

generations

0

0

text : \* Topik: \n Penanggung Jawab Pengadaan ASN \n \n Informasi: \n Pengadaan ASN (CPNS dan PPPK) di BKPSDM Kabupaten Lebak ditangani oleh \*Hyz Supradinata, S.AP.\* \n \n Gambar: \n https://bkpsdm.lebakkab.go.id/sikepel/asset/media/file/198001062014061001/pasfoto/thumb\_577059\_WhatsApp\_Image\_2023\_10\_01\_at\_21\_09\_21\_removebg\_preview.png \n \n Sumber: \n Data Pegawai \n \n Selain itu, Informasi terbaru mengenai seleksi ASN juga dapat Anda pantau melalui media sosial resmi BKPSDM Kabupaten Lebak atau portal SSCASN BKN. Ada lagi yang bisa saya bantu? \*

generationInfo

finishReason : STOP

index : 0

32°C Sebagian cerah

Pencarian

15:10 22/06/2026

Chatbot BKPSDM Lebak - n8n | database\_chatbot\_bkpsdm - Google | Beranda - Google Drive | n8n - Google Drive | Dashboard | WAHA

https://n8n-twin6t1jar5.jkt6.sumopod.my.id/workflow/jJesKJcPwW5FW/3f82c7

### Code in JavaScript

INPUT Schema Table JSON Parameters Settings

1 item

AI Agent

output \* Topik: \n Penanggung Jawab Pengadaan ASN \n \n Informasi: \n Pengadaan ASN (CPNS dan PPPK) di BKPSDM Kabupaten Lebak ditangani oleh \*Hyz Supradinata, S.AP.\* \n \n Gambar: \n https://bkpsdm.lebakkab.go.id/sikepel/asset/media/file/198001062014061001/pasfoto/thumb\_577059\_WhatsApp\_Image\_2023\_10\_01\_at\_21\_09\_21\_removebg\_preview.png \n \n Sumber: \n Data Pegawai \n \n Selain itu, Informasi terbaru mengenai seleksi ASN juga dapat Anda pantau melalui media sosial resmi BKPSDM Kabupaten Lebak atau portal SSCASN BKN. Ada lagi yang bisa saya bantu? \*

Start Typing

Wait

Send Seen

Edit Fields

WAHA Trigger

Variables and context

Execute step

Mode

Run Once for All Items

Language

JavaScript

JavaScript

```
1 const aiOutput = $json.output || '';\n2\n3 const imageMatch = aiOutput.match(/https?:\\/\\/[^\\s]+\\.\\(jpg|jpeg|png|gif|webp|\\/i); \n4\n5 return [\n6   {\n7     text_only: aiOutput.replace(/https?:\\/\\/[^\\s]+\\.\\(jpg|jpeg|png|gif|webp|\\/i, ''),\n8     image_url: imageMatch ? imageMatch[0] : '',\n9     has_image: !!imageMatch\n10   }\n11 ];\n12\n13
```

Type \$ for a list of special vars/methods. Debug by using console.log() statements and viewing their output in the browser console.

I wish this node would...

OUTPUT

1 item

| text_only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | image_url                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| * Topik: \n Penanggung Jawab Pengadaan ASN \n \n Informasi: \n Pengadaan ASN (CPNS dan PPPK) di BKPSDM Kabupaten Lebak ditangani oleh *Hyz Supradinata, S.AP.* \n \n Gambar: \n https://bkpsdm.lebakkab.go.id/sikepel/asset/media/file/198001062014061001/pasfoto/thumb_577059_WhatsApp_Image_2023_10_01_at_21_09_21_removebg_preview.png \n \n Sumber: \n Data Pegawai \n \n Selain itu, Informasi terbaru mengenai seleksi ASN juga dapat Anda pantau melalui media sosial resmi BKPSDM Kabupaten Lebak atau portal SSCASN BKN. Ada lagi yang bisa saya bantu? * | https://bkpsdm.lebakkab.go.id/sikepel/asset/media/file/198001062014061001/pasfoto/thumb_577059_WhatsApp_Image_2023_10_01_at_21_09_21_removebg_preview.png |

32°C Sebagian cerah

Pencarian

15:12 22/06/2026

Chatbot BKPSDM Lebak - n8n | database\_chatbot\_bkpsdm - Google | Beranda - Google Drive | n8n - Google Drive | Dashboard | WAHA

https://n8n-lwin6tltjaz5jkt6.sumopod.my.id/workflow/jllexkDjCpWlw5FW/536b0e

### AI Agent

INPUT

- Start Typing (1 item)
- Wait
- Send Seen
- Edit Fields (1 item)
- WAHA Trigger (1 item)
- Variables and context

Parameters

Tip: Get a feel for agents with our quick [tutorial](#) or see an [example](#) of how this node works

Source for Prompt (User Message)

Define below

Prompt (User Message)

```
[[{"Edit_Fields": { "item.json.payload.body" }}]
```

untuk mendapatkan informasi pengadaan cpns lebak itu ke siapa?

Require Specific Output Format

Enable Fallback Model

Options

System Message

Kamu adalah Virtual Assistant WhatsApp resmi BKPSDM Kabupaten Lebak.

Tugasmu membantu ASN, PPPK, pegawai pemerintah, maupun masyarakat yang membutuhkan informasi seputar layanan BKPSDM Kabupaten Lebak.

Kamu bertindak sebagai petugas informasi digital yang ramah, profesional, cepat, dan

Chat Model \* Memory Tool

Output

None of your tools were used in this run. Try giving your tools clearer names and descriptions to help the AI

1 item

output

Topik: Penanggung Jawab Pengadaan ASN Informasi: Pengadaan ASN (CPNS dan PPPK) di BKPSDM Kabupaten Lebak ditangani oleh Iyaz Supradinata, S.AP Gambar: [https://bkpsdm.lebakkab.go.id/sikepel/assets/media/file/198001062014061001/pasfoto/thumb.577059\\_Wha tsApp\\_image\\_2023\\_10\\_01\\_at\\_21\\_09\\_25\\_4\\_removebg\\_prev lew.png](https://bkpsdm.lebakkab.go.id/sikepel/assets/media/file/198001062014061001/pasfoto/thumb.577059_Wha tsApp_image_2023_10_01_at_21_09_25_4_removebg_prev lew.png) Sumber: Data Pegawai Selain itu, informasi terbaru mengenai seleksi ASN juga dapat Anda pantau melalui media sosial resmi BKPSDM Kabupaten Lebak atau portal SSCASN BKN. Ada lagi yang bisa saya bantu?

32°C Sebagian cerah

Pencarian

15.09 22/06/2026

Chatbot BKPSDM Lebak - n8n | database\_chatbot\_bkpsdm - Google | Beranda - Google Drive | n8n - Google Drive | Dashboard | WAHA

https://n8n-lwin6tltjaz5jkt6.sumopod.my.id/workflow/jllexkDjCpWlw5FW/c9d8b9

### Wait

INPUT

- Send Seen
- No fields - node executed, but no items were sent on this branch
- Edit Fields (1 item)
- WAHA Trigger (1 item)
- Variables and context

Parameters

Resume

After Time Interval

Wait Amount

5,00

Wait Unit

Seconds

OUTPUT

1 item

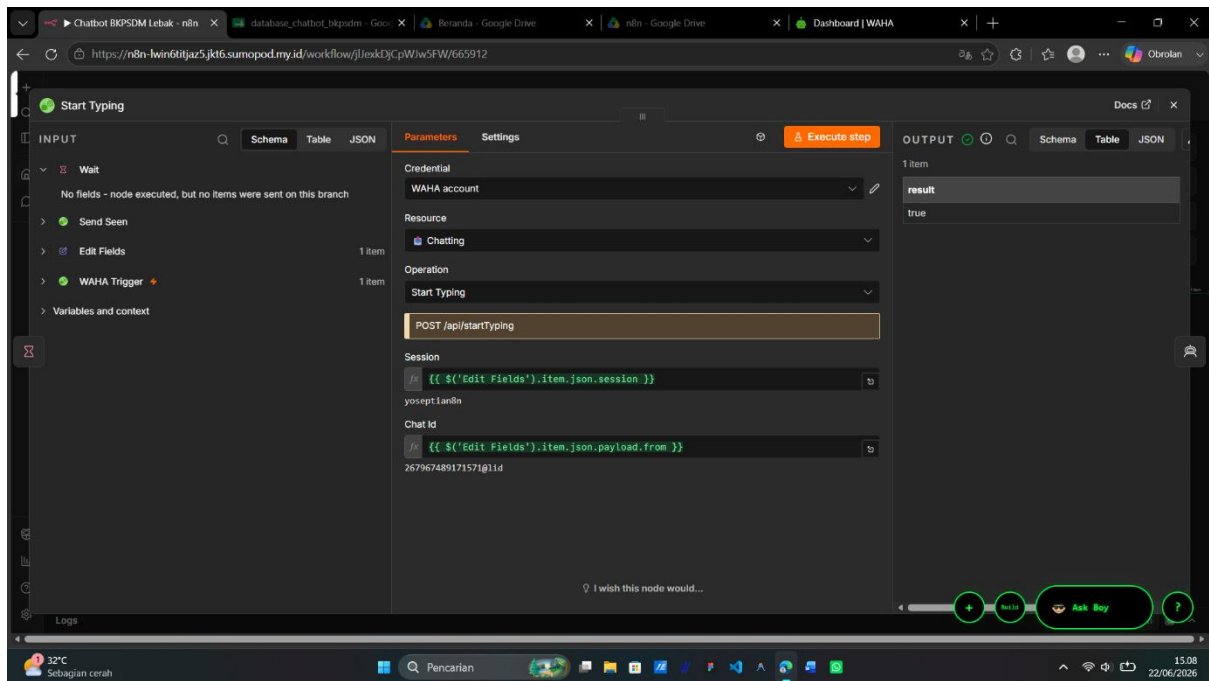
This is an item, but it's empty.

I wish this node would...

32°C Sebagian cerah

Pencarian

15.08 22/06/2026



Chatbot BKPSDM Lebak · X database\_chatbot\_bkpsdm · X Beranda · Google Drive · X nbn · Google Drive · X Dashboard | WAHA · X +

https://n8n-twin6tltjaz5.jkt6.sumopod.my.id/workflow/jlleskdYcPwW5FW/bv12512

### Send Seen

INPUT Schema Table JSON 1 Item

Id evL0tkvq2677gtmb7yrb8q2797z7  
# timestamp 178211739120  
event message  
session yoseptian8n  
metadata  
me  
Id 6285719203575@ic.us  
pushName Sobat BKPSDM Lebak  
Id 155130628456547@lid  
jid 6285719203575-1@s.whatsapp.net  
payload  
Id false\_267967489171571@lid\_ACEDF6AFBFFDAB7BF545820C12E82F  
# timestamp 1782111739  
from 267967489171571@lid  
fromMe false  
source app  
body untuk mendapatkan informasi pengadaan cpris

Parameters Settings Execute step

Credential WAHA account  
Resource Chatting  
Operation Send Seen  
POST /api/sendSeen  
Session {{ \$json.session }}  
yoseptian8n  
Chat Id {{ \$json.payload.from }}  
267967489171571@lid  
Message Id {{ \$json.payload.id }}  
false\_267967489171571@lid\_ACEDF6AFBFFDAB7BF545820C12E82F  
Participant

OUTPUT 1 Item  
This is an item, but it's empty.

Logs

32°C Sebagian cerah Pencarian 15.07 22/06/2026

Dashboard | WAHA

Connect

| Name         | API                                      | Info                               | Sessions             |
|--------------|------------------------------------------|------------------------------------|----------------------|
| yoseptionn8n | https://wahagows-c7494c.app2.flaz.my.id/ | GWS (2026-5-1 PLUS)<br>07:17:16 up | WORKING: 1 FAILED: 1 |

Sessions

Start New

| Name         | Metadata | Account                                                  | Status  | Server       |
|--------------|----------|----------------------------------------------------------|---------|--------------|
| Session      |          | Account (Phone Number)                                   | Any     | Any          |
| yoseptionn8n |          | Informatics<br>6285719203575@ic.id<br>155120028456547@id | WORKING | yoseptionn8n |
| yoseptionn8n |          |                                                          | FAILED  | yoseptionn8n |

Dashboard | WAHA

My workflow - n8n

Editor Executions Evaluations

0/1 Publish

Execute workflow

Logs

Chatbot BKPSDM Lebak - n8n | database\_chatbot\_bkpsdm - Google | Beranda - Google Drive | n8n - Google Drive | Dashboard | WAHA

https://n8n-twin6t1jaz5.jkt6.sumopod.my.id/workflow/jJesKjCpWiw5FW/b7f614

### Stop Typing

INPUT | Schema | Table | JSON | Parameters | Settings | Execute step

1 Item

Code in JavaScript

Text Only

Image Url

has\_image: true

AI Agent

Start Typing

Wait

Send Seen

Edit Fields

WAHA Trigger

Variables and context

Logs

Parameters

Credential: WAHA account

Resource: Chatting

Operation: Stop Typing

POST /api/stopTyping

Session: {{ \$('Edit Fields').item.json.session }}

Chat Id: {{ \$('Edit Fields').item.json.payload.from }}

267967489171571@11d

OUTPUT

1 Item

result: true

32°C Sebagian cerah

Pencarian

15.13 22/06/2026

Chatbot BKPSDM Lebak - n8n | database\_chatbot\_bkpsdm - Google | Beranda - Google Drive | n8n - Google Drive | Dashboard | WAHA

https://n8n-twin6t1jaz5.jkt6.sumopod.my.id/workflow/jJesKjCpWiw5FW/4a867e

### Simple Memory

INPUT | Mapping | From AI | Schema | Table | JSON | Parameters | Settings | Run 2 of 2

action: saveContext

input: untuk mendapatkan informasi pengadaan cpns lebak itu ke apa?

output

Topic: Penanggung Jawab Pengadaan ASN (CPNS dan PPPK) di BKPSDM Kabupaten Lebak ditangani oleh **Wiyaz Supradinata, SAP** dan **Gambar: https://bkpsdm.lebakkab.go.id/sikepel/asset/medias/189001062014061001/pasfoto/thumb\_577059\_059\_WhatsApp\_image\_2023\_10\_01\_at\_21\_09\_25\_4\_r emovebg\_preview.png** Selain itu, informasi terbaru mengenai seleksi ASN juga dapat Anda pantau melalui media sosial resmi BKPSDM Kabupaten Lebak atau portal SSCASN BKN. Ada lagi yang bisa saya bantu?

Logs

Parameters

Session ID: Define below

Key: {{ \$('WAHA Trigger').item.json.payload.from }}

267967489171571@11d

Context Window Length: 1000

How many past interactions the model receives as context

OUTPUT

Run 2 of 2

action: chatHistory

saveContext: 0

lc: 1

type: constructor

id: 0: langchain\_core, 1: messages, 2: HumanMessage

kwargs: content: halo, additional\_kwargs: (empty object), response\_metadata: (empty object)

1

lc: 1

type: constructor

id: 0: langchain\_core, 1: messages, 2: AIMessage

kwargs: content: Halo Sobat BKPSDM Lebak Virtual Assistant BKPSDM Kabupaten Lebak Saya siap membantu ma, form BKPSDM

32°C Sebagian cerah

Pencarian

15.10 22/06/2026

Chatbot BKPSDM Lebak - n8n | database\_chatbot\_bkpsdm - Google | Beranda - Google Drive | n8n - Google Drive | Dashboard | WAHA

https://n8n-lwin6tltjaz5.jkt6.sumopod.my.id/workflow/jJeskdYcPwJw5FW/e82329

### Send an image

INPUT

WAHA Trigger

1 Item

Id evL0tkvq2677gtnvb7yrb8q2797z7

# timestamp 178211739120

event message

session yoseptian8n

metadata

me

Id 6285719203575@c.us

pushName Sobat BKPSDM Lebak

Id 155130628456547@lid

Id 6285719203575-1@s.whatsapp.net

payload

Id false\_267967489171571@lid\_ACEDF6AFBFFFDAB7BF54582D1C12E82F

# timestamp 178211739

from 267967489171571@lid

fromMe false

source app

body untuk mendapatkan informasi pengadaan cpns lebak itu ke siapa?

Parameters

Settings

Execute step

POST /api/sendImage

Session

Id {{ \$('WAHA Trigger').item.json.session }}

Chat Id

Id {{ \$('WAHA Trigger').item.json.payload.from }}

File

Id {{ \$('Code in JavaScript').json["image\_url"] }}

Output

1 Item

Id true\_267967489171571@lid\_3E80E38B532459AB725AF7

Chat

Sen

IsFr

IsGn

Add

Sen

Reci

Broa

Broa

ID :

Serv

Type

Pust

Time

Cate

Mult

Med

Edit

Msg

32°C Sebagian cerah

Pencarian

15.15 22/06/2026

Chatbot BKPSDM Lebak - n8n | database\_chatbot\_bkpsdm - Google | Beranda - Google Drive | n8n - Google Drive | Dashboard | WAHA

https://n8n-lwin6tltjaz5.jkt6.sumopod.my.id/workflow/jJeskdYcPwJw5FW/e635ae

### Send a text message

INPUT

WAHA Trigger

1 Item

Id evL0tkvq2677gtnvb7yrb8q2797z7

# timestamp 178211739120

event message

session yoseptian8n

metadata

me

Id 6285719203575@c.us

pushName Sobat BKPSDM Lebak

Id 155130628456547@lid

Id 6285719203575-1@s.whatsapp.net

payload

Id false\_267967489171571@lid\_ACEDF6AFBFFFDAB7BF54582D1C12E82F

# timestamp 178211739

from 267967489171571@lid

fromMe false

source app

Parameters

Settings

Execute step

Chatting

Operation

Send Text

POST /api/sendText

Session

Id {{ \$('WAHA Trigger').item.json.session }}

Chat Id

Id {{ \$('WAHA Trigger').item.json.payload.from }}

Reply To

Id {{ \$('WAHA Trigger').item.json.payload.from }}

Text

Id {{ \$('Code in JavaScript').item.json.text\_only }}

Link Preview

Output

1 Item

Id true\_267967489171571@lid\_3E80E38B532459AB725AF7

Chat

Sen

IsFr

IsGn

Add

Sen

Reci

Broa

Broa

ID :

Serv

Type

Pust

Time

Cate

Mult

Med

Edit

Msg

Er

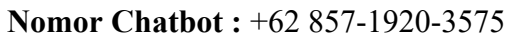
Er

Er

32°C Sebagian cerah

Pencarian

15.14 22/06/2026



**Nomor Chatbot : +62 857-1920-3575**