## AI Agent Node with Tools, Memory, and Output Parser

{

"nodes": [

{

"parameters": {

"promptType": "define",

"text": "User message",

"hasOutputParser": true,

"options": {

"systemMessage": "System Message\n"

}

},

"type": "@n8n/n8n-nodes-langchain.agent",

"typeVersion": 2,

"position": [

220,

0

],

"id": "random string of letters and numbers",

"name": "AI Agent"

},

{

"parameters": {

"options": {}

},

"type": "n8n-nodes-base.gmailTool",

"typeVersion": 2.1,

"position": [

380,

220

],

"id": "f27ec884-81d6-4b9c-a4b2-7cf504a6c2f2",

"name": "Gmail",

"webhookId": "f1acaebc-b42a-449d-87ab-c5a9395d33d2",

"credentials": {

"gmailOAuth2": {

"id": "auth ID",

"name": "auth name"

}

}

},

{

"parameters": {

"options": {}

},

"type": "@n8n/n8n-nodes-langchain.lmChatOpenRouter",

"typeVersion": 1,

"position": [

140,

220

],

"id": "b4bcd23a-7511-47b6-bcd7-e7d45e2e00a3",

"name": "OpenRouter Chat Model",

"credentials": {

"openRouterApi": {

"id": "auth ID",

"name": "auth name"

}

}

},

{

"parameters": {},

"type": "@n8n/n8n-nodes-langchain.memoryBufferWindow",

"typeVersion": 1.3,

"position": [

260,

220

],

"id": "60d159f2-4f9f-427d-b28c-5ae661592b07",

"name": "Simple Memory"

},

{

"parameters": {

"schemaType": "manual",

"inputSchema": "{\n \"type\": \"object\",\n \"properties\": {\n \"subject\": {\n \"type\": \"string\",\n \"description\": \"The subject line of the email\"\n },\n \"email\": {\n \"type\": \"string\",\n \"description\": \"The body content of the email\"\n }\n },\n \"required\": [\"subject\", \"email\"]\n}"

},

"type": "@n8n/n8n-nodes-langchain.outputParserStructured",

"typeVersion": 1.2,

"position": [

640,

220

],

"id": "dee10905-085e-4dca-9a7f-ba77ef656efb",

"name": "Structured Output Parser"

},

{

"parameters": {

"toolDescription": "Use this tool to search the internet",

"method": "POST",

"url": "https://api.tavily.com/search",

"sendBody": true,

"specifyBody": "json",

"jsonBody": "{\n \"api\_key\": \"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\",\n \"query\": \"{searchTerm}\",\n \"search\_depth\": \"basic\",\n \"include\_answer\": true,\n \"topic\": \"news\",\n \"include\_raw\_content\": true,\n \"max\_results\": 3\n} ",

"placeholderDefinitions": {

"values": [

{

"name": "searchTerm",

"description": "What the user has requested to search the internet for",

"type": "string"

}

]

}

},

"type": "@n8n/n8n-nodes-langchain.toolHttpRequest",

"typeVersion": 1.1,

"position": [

520,

220

],

"id": "278aa4c8-4916-4fae-a75c-ecb298d44311",

"name": "HTTP Request"

}

],

"connections": {

"Gmail": {

"ai\_tool": [

[

{

"node": "AI Agent",

"type": "ai\_tool",

"index": 0

}

]

]

},

"OpenRouter Chat Model": {

"ai\_languageModel": [

[

{

"node": "AI Agent",

"type": "ai\_languageModel",

"index": 0

}

]

]

},

"Simple Memory": {

"ai\_memory": [

[

{

"node": "AI Agent",

"type": "ai\_memory",

"index": 0

}

]

]

},

"Structured Output Parser": {

"ai\_outputParser": [

[

{

"node": "AI Agent",

"type": "ai\_outputParser",

"index": 0

}

]

]

},

"Tavily": {

"ai\_tool": [

[

{

"node": "AI Agent",

"type": "ai\_tool",

"index": 0

}

]

]

}

},

"pinData": {},

"meta": {

"templateCredsSetupCompleted": true,

"instanceId": "95e5a8c2e51c83e33b232ea792bbe3f063c094c33d9806a5565cb31759e1ad39"

}

}

## Sticky Note

{

"nodes": [

{

"parameters": {

"content": "## Sticky Note Title\nSticky note text"

},

"type": "n8n-nodes-base.stickyNote",

"typeVersion": 1,

"position": [

1400,

-460

],

"id": "ae20053d-915d-4aa2-a9b7-e05b07152a9f",

"name": "Sticky Note2"

}

],

"connections": {},

"pinData": {},

"meta": {

"templateCredsSetupCompleted": true,

"instanceId": "95e5a8c2e51c83e33b232ea792bbe3f063c094c33d9806a5565cb31759e1ad39"

}

}