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      "typeVersion": 1.4,
      "position": [
        864,
        880
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      "id": "18996957-6e14-44ca-92f6-bc174cededf7",
      "name": "When chat message received",
      "webhookId": "b47ef4c6-aaf8-4891-8fe9-f9cfb114dde9"
    },
    {
      "parameters": {
        "content": "## Query\n",
        "height": 384,
        "width": 832,
        "color": 5
      },
      "type": "n8n-nodes-base.stickyNote",
      "typeVersion": 1,
      "position": [
        800,
        752
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      "name": "Sticky Note2"
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    {
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        "method": "POST",
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"https://generativelanguage.googleapis.com/v1beta/models/gemini-2.5-flash:generateContent",
        "authentication": "genericCredentialType",
        "genericAuthType": "httpQueryAuth",
        "sendBody": true,
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}\n      ]\n    },\n    {\n      \"tools\": [\n        {\n          \"file_search\": {\n            \"file_search_store_names\": [\n              \"fileSearchStores/lscfgincpmchatbot-c89xcdwoeaka\"\n            ]\n          }\n        }\n      ]\n    }\n  ]\n}\n",
      }
    }
  ]
}

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    "options": {}
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  "typeVersion": 4.3,
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    992
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  "name": "Knowledge Base",
  "credentials": {
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      "name": "google_gemini_api"
    }
  }
},
{

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  "parameters": {
    "options": {
      "systemMessage": "=You are the specialized Research Assistant for the
Life Sciences Core Facilities (LSCF) and the G-INCPM at the Weizmann Institute.
Your goal is to connect users to the exact resource they need with surgical
precision.\n\nOperational Protocol:\nTool Priority 1: Knowledge Base (KB). Search
here for any specific service, instrument, or Weizmann-specific policy.\nTool
Priority 2: Perplexity. Use this only for educational/theoretical context (e.g.,
\n\"How does CRISPR work?\") or when the KB confirms a service exists but lacks
technical depth.\nSynthesis: When combined, start with the Weizmann-specific
unit/link, then provide the scientific context from Perplexity.\n\nWhen you are
sending a query to the Knowledge Base tool, only send over text. No punctuation,
quotation marks, or new lines.\n\nThe \"Metabolomics Trinity\" & G-INCPM
Rules\nSmall Molecule Queries: Any mention of \"metabolites,\" \"lipids,\" or
\n\"small molecules\" must trigger a mention of all three: Metabolic Profiling,
Targeted Metabolomics, and Mass Spectrometry Imaging.\nSpatial Clause: If
\n\"imaging\" or \"localization\" is mentioned, highlight that Mass Spectrometry
Imaging is the only unit providing spatial maps.\n\nG-INCPM Projects: Only If a
G-INCPM unit is mentioned, include: [Submit a G-INCPM
Project](https://g-incpm.weizmann.ac.il/eform/submit/project)\n\nResponse
Structure\nSummary: Briefly state which unit(s) handle the request.\nService
Details: Use KB data for specific instrumentation/ordering info.\nContext
(Optional): Use Perplexity for scientific background if the user asked \"why\" or
\n\"how.\"\nActionable Info: Contact details (specifically Genomics/Sandbox:
08-934-5168 / INCPM.samples@weizmann.ac.il) and mandatory links.\n\nOutput
formatting for links\nAlways present unit and web resources as Markdown hyperlinks
in the form [unit name](URL).\nExample: [Bioinformatics
G-INCPM](https://g-incpm.weizmann.ac.il/units/MantouxBioinformatics/about) and
[Submit a G-INCPM
Project](https://g-incpm.weizmann.ac.il/eform/submit/project).\nNever show raw URLs
unless the user explicitly asks for \"plain URL\".\n\nFor every response that
mentions a specific unit, include a Markdown link using the unit name as the anchor

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text, for example:\n[Genomics:
G-INCPM](https://g-incpm.weizmann.ac.il/units/CrownGenomics/about).\n\n"
  }
},
"type": "@n8n/n8n-nodes-langchain.agent",
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  "parameters": {
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      "temperature": 0.2
    }
  },
  "type": "@n8n/n8n-nodes-langchain.lmChatGoogleGemini",
  "typeVersion": 1,
  "position": [
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    992
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  "name": "Google Gemini Chat Model",
  "credentials": {
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    }
  }
},
{
  "parameters": {
    "messages": {
      "message": [
        {
          "content": "You are a helpful assistant for GINCPM and LSCF units.
Answer using only provided context/search results from
https://www.weizmann.ac.il/LS_CoreFacilities/,
https://g-incpm.weizmann.ac.il/. \n\nRespond in neutral expert tone with ###/####
headers, short paras/lists, tables for comparisons. Explicitly state \"no
information found\" if missing.\n\nFor units: Always append [Unit Name](source
URL). G-INCPM: + [Start a
project](https://g-incpm.weizmann.ac.il/eform/submit/project).\n\nG-INCPM Units
(6): Bioinformatics: G-INCPM
[https://g-incpm.weizmann.ac.il/units/MantouxBioinformatics/about](https://g-incpm.
weizmann.ac.il/units/MantouxBioinformatics/about), Drug Discovery: G-INCPM

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<https://g-incpm.weizmann.ac.il/units/WohlDrugDiscovery/about>, Genomics: G-INCPM
<https://g-incpm.weizmann.ac.il/units/CrownGenomics/about>, Medicinal Chemistry: G-INCPM
<https://g-incpm.weizmann.ac.il/units/MedicinalChemistry/about>, Protein Profiling: G-INCPM
<https://g-incpm.weizmann.ac.il/units/deBottonProteinProfiling/about>, Information Technology: G-UNCPM
<https://g-incpm.weizmann.ac.il/units/InformationTechnology/about>.\n\nLSCF Units (24): Antibody Engineering
[https://www.weizmann.ac.il/LS_CoreFacilities/antibody/about](https://www.weizmann.ac.il/LS_CoreFacilities/antibody/about), Bacteriology & Genomic repository
[https://www.weizmann.ac.il/LS_CoreFacilities/bacteriology-genomic-repository/about](https://www.weizmann.ac.il/LS_CoreFacilities/bacteriology-genomic-repository/about), Bioinformatics: LSCF
[https://www.weizmann.ac.il/LS_CoreFacilities/bioinformatics-lscf/about](https://www.weizmann.ac.il/LS_CoreFacilities/bioinformatics-lscf/about), Biomedical Research
[https://www.weizmann.ac.il/LS_CoreFacilities/biomedical-research/about](https://www.weizmann.ac.il/LS_CoreFacilities/biomedical-research/about), Crystallization, Structural Determination and Structure Modeling
[https://www.weizmann.ac.il/LS_CoreFacilities/Crystallisation-and-Structure-Determination/about](https://www.weizmann.ac.il/LS_CoreFacilities/Crystallisation-and-Structure-Determination/about), DNA Manipulation
[https://www.weizmann.ac.il/LS_CoreFacilities/dna-manipulation/about](https://www.weizmann.ac.il/LS_CoreFacilities/dna-manipulation/about), DNA sequencing
[https://www.weizmann.ac.il/LS_CoreFacilities/dna-sequencing/about](https://www.weizmann.ac.il/LS_CoreFacilities/dna-sequencing/about), Ecosystem Microbiome Research
[https://www.weizmann.ac.il/LS_CoreFacilities/ecosystem-microbiome-research/about](https://www.weizmann.ac.il/LS_CoreFacilities/ecosystem-microbiome-research/about), Flow Cytometry
[https://www.weizmann.ac.il/LS_CoreFacilities/flow-cytometry/about](https://www.weizmann.ac.il/LS_CoreFacilities/flow-cytometry/about), Fly food
[https://www.weizmann.ac.il/LS_CoreFacilities/fly-food/about](https://www.weizmann.ac.il/LS_CoreFacilities/fly-food/about), Genomics, Sandbox
[https://www.weizmann.ac.il/LS_CoreFacilities/genomics-sandbox/about](https://www.weizmann.ac.il/LS_CoreFacilities/genomics-sandbox/about), Irradiation
[https://www.weizmann.ac.il/LS_CoreFacilities/irradiation/about](https://www.weizmann.ac.il/LS_CoreFacilities/irradiation/about), Mass Cytometry
[https://www.weizmann.ac.il/LS_CoreFacilities/mass-cytometry/about](https://www.weizmann.ac.il/LS_CoreFacilities/mass-cytometry/about), Mass spectrometry imaging
[https://www.weizmann.ac.il/LS_CoreFacilities/mass-spectrometry-imaging/about](https://www.weizmann.ac.il/LS_CoreFacilities/mass-spectrometry-imaging/about), Metabolic Profiling
[https://www.weizmann.ac.il/LS_CoreFacilities/metabolic-profiling/about](https://www.weizmann.ac.il/LS_CoreFacilities/metabolic-profiling/about), MICC Cell Observatory
[https://www.weizmann.ac.il/LS_CoreFacilities/micc-cell-observatory/about](https://www.weizmann.ac.il/LS_CoreFacilities/micc-cell-observatory/about), MRI

[https://www.weizmann.ac.il/LS_CoreFacilities/mri/about](https://www.weizmann.ac.il/LS_CoreFacilities/mri/about), Multidisciplinary Vesicle Program (MVP) [https://www.weizmann.ac.il/LS_CoreFacilities/multidisciplinary-vesicle-program-mvp/about](https://www.weizmann.ac.il/LS_CoreFacilities/multidisciplinary-vesicle-program-mvp/about), Protein Analysis [https://www.weizmann.ac.il/LS_CoreFacilities/protein-analysis/about](https://www.weizmann.ac.il/LS_CoreFacilities/protein-analysis/about), Protein Expression [https://www.weizmann.ac.il/LS_CoreFacilities/protein-expression/about](https://www.weizmann.ac.il/LS_CoreFacilities/protein-expression/about), Protein Purification [https://www.weizmann.ac.il/LS_CoreFacilities/protein-purification/about](https://www.weizmann.ac.il/LS_CoreFacilities/protein-purification/about), Stem Cells & Organoids [https://www.weizmann.ac.il/LS_CoreFacilities/stem-cells-organoids/about](https://www.weizmann.ac.il/LS_CoreFacilities/stem-cells-organoids/about), Targeted Metabolomics [https://www.weizmann.ac.il/LS_CoreFacilities/targeted-metabolomics/about](https://www.weizmann.ac.il/LS_CoreFacilities/targeted-metabolomics/about), Viral Vector [https://www.weizmann.ac.il/LS_CoreFacilities/viral-vector/about](https://www.weizmann.ac.il/LS_CoreFacilities/viral-vector/about).\n\n\nHead of units: Antibody Engineering Unit - Dr. Ira Zaretsky ira.zaretsky@weizmann.ac.il +972-8-934-6741; Bacteriology & Genomic repository - Dr. Ghil Jona ghil.jona@weizmann.ac.il +972-8-934-6026; Ilana and Pascal Mantoux Institute for Bioinformatics - Dr. Dan Ben-Avraham dan.ben-avraham@weizmann.ac.il +972-8-934-6718; Bioinformatics: LSCF - Dr. Dena Leshkowitz dena.leshkowitz@weizmann.ac.il +972-8-934-6330; Biomedical Research - Aharon Peretz aharon.peretz@weizmann.ac.il +972-8-934-2258; Crystallization, Structural Determination and Structure Modeling - Dr. Orly Dym orly.dym@weizmann.ac.il +972-8-934-6030; DNA Manipulation - Dr. Yoav Peleg yoav.peleg@weizmann.ac.il +972-8-934-3191, Dr. Tamar Unger tamar.unger@weizmann.ac.il +972-8-934-2242; Maurice and Vivienne Wohl Institute for Drug Discovery - Dr. Haim Michael Barr haim.barr@weizmann.ac.il +972-8-934-4379; DNA sequencing - Shani Mor Karasenti shani-mor.karasenti@weizmann.ac.il +972-8-934-3688, Dalit Merhav dalit.merhav@weizmann.ac.il +972-8-934-4249; Ecosystem Microbiome Research - Dr. Dagan Sade dagan.sade@weizmann.ac.il +972-8-934-4403; Flow Cytometry - Dr. Ziv Porat ziv.porat@weizmann.ac.il +972-8-934-2235; Fly food - Shari Carmon shari.carmon@weizmann.ac.il +972-54-549-9889; Crown Institute for Genomics - Dr. Hadas Keren-Shaul INCPM.samples@weizmann.ac.il 08-9345168; Genomics, Sandbox - Dr. Hadas Keren-Shaul INCPM.samples@weizmann.ac.il 08-9345168; Information Technology (G-INCPM) - Sharon Dahan sharon.dahan@weizmann.ac.il +972-8-934-2658; Irradiation - Hedva Hamawi hedva.hamawi@weizmann.ac.il +972-8-934-2374; MICC Cell Observatory - Dr. Yoseph Addadi yoseph.addadi@weizmann.ac.il +972-8-934-6332; MRI - Dr. Edna Furman-Haran edna.haran@weizmann.ac.il +972-8-934-6098; Mass Cytometry - Dr. Tomer-Meir Salame tomer-meir.salame@weizmann.ac.il +972-8-934-4385; Mass spectrometry imaging - Dr. Herbert Uwe Heinig uwe.heinig@weizmann.ac.il +972-8-934-2774; Medicinal Chemistry (G-INCPM) - Dr. Haim Michael Barr haim.barr@weizmann.ac.il +972-8-934-4379; Metabolic Profiling - Dr. Sergey Malitsky sergey.malitsky@weizmann.ac.il +972-8-934-3551; Multidisciplinary Vesicle Program (MVP) - Dr. Avraham Dayan avraham.dayan@weizmann.ac.il (no phone); Protein Analysis - Dr. Yael Fridmann Sirkis yael.fridmann-sirkis@weizmann.ac.il +972-8-934-4340; Protein Expression - Dr. Tamar Unger tamar.unger@weizmann.ac.il +972-8-934-2242, Dr. Yoav Peleg

yoav.peleg@weizmann.ac.il +972-8-934-3191; de Botton Institute for Protein Profiling - Dr. Yishai Levin yishai.levin@weizmann.ac.il +972-8-934-4315; Protein Purification - Dr. Shira Albeck shira.albeck@weizmann.ac.il +972-8-934-4290; Stem Cells & Organoids - Dr. Elena Ainbinder elena.ainbinder@weizmann.ac.il +972-8-934-6539; Targeted Metabolomics - Dr. Alexander Brandis alexander.brandis@weizmann.ac.il +972-8-934-6532; Viral Vector - Dr. Oded Singer oded.singer@weizmann.ac.il +972-8-934-2159.\n",

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    "role": "system"
  },
  {
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$fromAI('message1_Text', ``, 'string') }}"
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},
"options": {
  "temperature": "=0.2",
  "topK": 30,
  "searchDomainFilter":
"https://www.weizmann.ac.il/LS_CoreFacilities/,https://g-incpm.weizmann.ac.il/",
  "searchRecency": "month"
},
"requestOptions": {}
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"id": "ec43dc0b-99b4-4445-b8ab-a360f23a42a9",
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"typeVersion": 1,
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    "id": "xEs0htTMLNgQI481",
    "name": "Perplexity account Weizmann"
  }
}
},
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  },
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  "typeVersion": 1.3,
  "position": [
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    992
  ],
  "id": "1ed9abd8-b70b-4985-a079-f4325e180601",
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```

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  {
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      },
      "options": {}
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    "name": "Read Test Questions",
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    "typeVersion": 4.7,
    "position": [
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        "id": "MM8Cvbsn7mq3gHJk",
        "name": "Google Sheets account"
      }
    }
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  {
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        "assignments": [
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            "id": "id-1",
            "name": "chatInput",
            "value": "={{ $json.question }}",
            "type": "string"
          },
          {

```

```

        "id": "id-2",
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        "type": "string"
    }
]
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"includeOtherFields": true,
"options": {}
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"name": "Format Test Question",
"type": "n8n-nodes-base.set",
"typeVersion": 3.4,
"position": [
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    1312
]
},
{
    "parameters": {
        "promptType": "define",
        "text": "={{ $json.chatInput }}",
        "options": {

```

"systemMessage": "You are the specialized Research Assistant for the Life Sciences Core Facilities (LSCF) and the G-INCPM at the Weizmann Institute. Your goal is to connect users to the exact resource they need with surgical precision.\n\nOperational Protocol:\nTool Priority 1: Knowledge Base (KB). Search here for any specific service, instrument, or Weizmann-specific policy.\nTool Priority 2: Perplexity. Use this only for educational/theoretical context (e.g., \"How does CRISPR work?\") or when the KB confirms a service exists but lacks technical depth.\nSynthesis: When combined, start with the Weizmann-specific unit/link, then provide the scientific context from Perplexity.\n\nWhen you are sending a query to the Knowledge Base tool, only send over text. No punctuation, quotation marks, or new lines.\n\nThe \"Metabolomics Trinity\" & G-INCPM Rules\nSmall Molecule Queries: Any mention of \"metabolites,\" \"lipids,\" or \"small molecules\" must trigger a mention of all three: Metabolic Profiling, Targeted Metabolomics, and Mass Spectrometry Imaging.\nSpatial Clause: If \"imaging\" or \"localization\" is mentioned, highlight that Mass Spectrometry Imaging is the only unit providing spatial maps.\n\nG-INCPM Projects: If a G-INCPM unit is mentioned, you must include: [Submit a G-INCPM Project].(<https://g-incpm.weizmann.ac.il/eform/submit/project>)\n\nResponse Structure\nSummary: Briefly state which unit(s) handle the request.\nService Details: Use KB data for specific instrumentation/ordering info.\nContext (Optional): Use Perplexity for scientific background if the user asked \"why\" or \"how.\"\nActionable Info: Contact details (specifically Genomics/Sandbox: 08-934-5168 / INCPM.samples@weizmann.ac.il) and mandatory links.\n\nOutput formatting for links\nAlways present unit and web resources as Markdown hyperlinks in the form [unit name](URL).\nExample: [Bioinformatics G-INCPM](<https://g-incpm.weizmann.ac.il/units/MantouxBioinformatics/about>) and

[Submit a G-INCPM Project](https://g-incpm.weizmann.ac.il/eform/submit/project).\nNever show raw URLs unless the user explicitly asks for "plain URL".\n\nFor every response that mentions a specific unit, include a Markdown link using the unit name as the anchor text, for example:\n[Genomics: G-INCPM](https://g-incpm.weizmann.ac.il/units/CrownGenomics/about)."

```
    }
  },
  "id": "dd7015ba-d887-4560-9eeb-94e05a3d7af0",
  "name": "Test AI Agent",
  "type": "@n8n/n8n-nodes-langchain.agent",
  "typeVersion": 2.2,
  "position": [
    1600,
    1312
  ]
},
{
  "parameters": {
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      "assignments": [
        {
          "id": "id-1",
          "name": "timestamp",
          "value": "={{ $now.toISO() }}",
          "type": "string"
        },
        {
          "id": "id-2",
          "name": "test_question",
          "value": "={{ $('Format Test Question').item.json.chatInput }}",
          "type": "string"
        },
        {
          "id": "id-3",
          "name": "agent_response",
          "value": "={{ $json.output }}",
          "type": "string"
        },
        {
          "id": "id-4",
          "name": "test_id",
          "value": "={{ $('Format Test Question').item.json.sessionId }}",
          "type": "string"
        }
      ]
    },
    "includeOtherFields": true,
    "options": {}
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}
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    "id": "2e52bf5a-da21-480a-a4c8-7becbb544f5b",
    "name": "Prepare Test Results",
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    "typeVersion": 3.4,
    "position": [
      2000,
      1312
    ]
  },
  {
    "parameters": {
      "operation": "append",
      "documentId": {
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      },
      "sheetName": {
        "__rl": true,
        "value": 742970865,
        "mode": "list",
        "cachedResultName": "Stress Test Prompts",
        "cachedResultUrl":
"https://docs.google.com/spreadsheets/d/1VPNmsUvDu-Ej5CEieFW04B3TIYkCOj7Lv08fn-AWK0Y/edit#gid=742970865"
      },
      "columns": {
        "mappingMode": "defineBelow",
        "value": {
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          "test_question": "={{ $json.test_question }}",
          "test_id": "={{ $json.test_id }}",
          "timestamp": "={{ $json.timestamp }}"
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      "matchingColumns": [],
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    }
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    "display": true,
    "type": "string",
    "canBeUsedToMatch": true,
    "removed": false
  },
  {
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    "displayName": "Correctness and factual grounding",
    "required": false,
    "defaultMatch": false,
    "display": true,
    "type": "string",
    "canBeUsedToMatch": true,
    "removed": false
  },
  {
    "id": "Relevance and routing to cores/contacts",
    "displayName": "Relevance and routing to cores/contacts",
    "required": false,
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        "display": true,
        "type": "string",
        "canBeUsedToMatch": true,
        "removed": false
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        "displayName": "Completeness and usefulness",
        "required": false,
        "defaultMatch": false,
        "display": true,
        "type": "string",
        "canBeUsedToMatch": true,
        "removed": false
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        "displayName": "Style and clarity",
        "required": false,
        "defaultMatch": false,
        "display": true,
        "type": "string",
        "canBeUsedToMatch": true,
        "removed": false
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"attemptToConvertTypes": false,
"convertFieldsToString": false
},
"options": {}
},
"id": "47de516b-41ec-40e8-87e2-312015f79bc5",
"name": "Write Test Results",
"type": "n8n-nodes-base.googleSheets",
"typeVersion": 4.7,
"position": [
    2224,
    1312
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"credentials": {
    "googleSheetsOAuth2Api": {
        "id": "MM8Cvbsn7mq3gHJk",
        "name": "Google Sheets account"
    }
}
},
{
    "parameters": {},
    "type": "n8n-nodes-base.manualTrigger",

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    "typeVersion": 1,
    "position": [
      864,
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    "name": "Execute workflow"
  },
  {
    "parameters": {
      "content": "## Test Models",
      "height": 448,
      "width": 1616,
      "color": 4
    },
    "type": "n8n-nodes-base.stickyNote",
    "typeVersion": 1,
    "position": [
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      1232
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    "id": "05059f25-82d9-4094-bd67-77ebd0cef61f",
    "name": "Sticky Note3"
  }
],
"pinData": {},
"connections": {
  "When chat message received": {
    "main": [
      [
        {
          "node": "RAG Agent",
          "type": "main",
          "index": 0
        }
      ]
    ]
  }
},
"Knowledge Base": {
  "ai_tool": [
    [
      {
        "node": "RAG Agent",
        "type": "ai_tool",
        "index": 0
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    ],
    [
      {
        "node": "Test AI Agent",
        "type": "ai_tool",
        "index": 0
      }
    ]
  ]
}

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    }
  ]
],
},
"Google Gemini Chat Model": {
  "ai_languageModel": [
    [
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        "type": "ai_languageModel",
        "index": 0
      },
      {
        "node": "Test AI Agent",
        "type": "ai_languageModel",
        "index": 0
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    ]
  ]
},
"Perplexity Tool": {
  "ai_tool": [
    [
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        "type": "ai_tool",
        "index": 0
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      {
        "node": "Test AI Agent",
        "type": "ai_tool",
        "index": 0
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    ]
  ]
},
"Simple Memory": {
  "ai_memory": [
    [
      {
        "node": "RAG Agent",
        "type": "ai_memory",
        "index": 0
      }
    ]
  ]
},
"Read Test Questions": {
  "main": [
    [
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    {
      "node": "Format Test Question",
      "type": "main",
      "index": 0
    }
  ]
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},
"Format Test Question": {
  "main": [
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        "node": "Test AI Agent",
        "type": "main",
        "index": 0
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    ]
  ]
},
"Test AI Agent": {
  "main": [
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        "node": "Prepare Test Results",
        "type": "main",
        "index": 0
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"Prepare Test Results": {
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        "node": "Write Test Results",
        "type": "main",
        "index": 0
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    ]
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"Execute workflow": {
  "main": [
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        "node": "Read Test Questions",
        "type": "main",
        "index": 0
      }
    ]
  ]
}
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  }
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"active": false,
"settings": {
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  "availableInMCP": false
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"versionId": "f4e75a5f-62f0-493f-a3a9-dc904cb4ab11",
"meta": {
  "templateCredsSetupCompleted": true,
  "instanceId":
"291ec9456a92fea5d5976be252f308df9e94635b030bfa3fd5fe118344a5eead"
},
"id": "POWGXPYFEuBaPTfL",
"tags": []
}
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