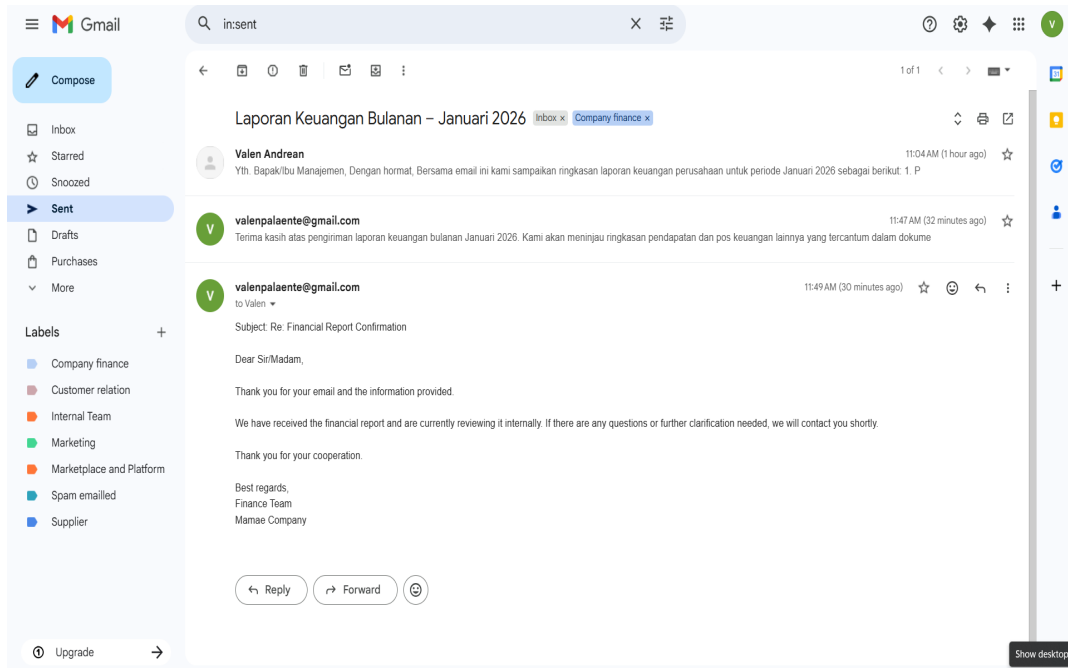Workflow Overview: This image shows the complete n8n automation workflow, starting from the Gmail trigger, processing with AI, and routing logic to different actions.

Auto Response by Category: This section demonstrates how the system automatically sends replies based on detected email categories such as finance, marketing, or internal communication.

Automatic Email Labeling: This workflow step applies Gmail labels automatically to incoming emails according to their classified category.

```json
{
  "name": "Email Support Automation",
  "nodes": [
    {
      "parameters": {
        "pollTimes": {
          "item": [
            {
              "mode": "everyMinute"
            }
          ]
        },
        "filters": {}
      },
      "type": "n8n-nodes-base.gmailTrigger",
      "typeVersion": 1.3,
      "position": [
        -368,
        -128
      ],
      "id": "c5f7a325-2882-4109-8bb1-1293afadefc8",
      "name": "Gmail Trigger",
      "credentials": {
        "info": "REMOVED_FOR_SECURITY"
      }
    },
    {
      "parameters": {
        "promptType": "define",
        "text": "=Subject  :  {{ $json.Subject }}\nBody : {{ $json.snippet }}",
        "options": {
          "systemMessage": "#role \nYou are a bot of smart email organizer that analyze and organize the email based on the
        }
      },
      "type": "@n8n/n8n-nodes-langchain.agent",
      "typeVersion": 3,
      "position": [
        -96,
        -96
      ],
      "id": "60151ec4-841a-4fc1-aaa6-da83b04e2010",
      "name": "AI Agent"
    },
    {
      "parameters": {
        "model": {
          "__rl": true,
          "value": "gpt-5.1",
          "mode": "list",
          "cachedResultName": "gpt-5.1"
        },
        "responsesApiEnabled": false,
        "options": {}
      },
      "type": "@n8n/n8n-nodes-langchain.lmChatOpenAi",
      "typeVersion": 1.3,
      "position": [
        -192,
        192
      ],
      "id": "45a6d85e-2547-44e6-ba70-95446ac89514",
      "name": "OpenAI Chat Model",
      "credentials": {
        "info": "REMOVED_FOR_SECURITY"
      }
    },
```

```
    [
      {
        "node": "AI Agent",
        "type": "ai_languageModel",
        "index": 0
      }
    ]
  ]
},
"AI Agent": {
  "main": [
    [
      {
        "node": "Code in Python (Beta)",
        "type": "main",
        "index": 0
      }
    ]
  ]
},
"Code in Python (Beta)": {
  "main": [
    [
      {
        "node": "Switch",
        "type": "main",
        "index": 0
      }
    ]
  ]
},
"Switch": {
  "main": [
    [
      {
        "node": "labelling company finance",
        "type": "main",
        "index": 0
      }
    ],
    [
      {
        "node": "labelling internal team",
        "type": "main",
        "index": 0
      }
    ],
    [
      {
        "node": "labelling for marketing email",
        "type": "main",
        "index": 0
      }
    ],
    [
      {
        "node": "labelling for customer relation",
        "type": "main",
        "index": 0
      }
    ],
    [
      {
        "node": "labelling for marketplace email",
        "type": "main",
        "index": 0
```

```
          }
        ],
        [
          {
            "node": "labelling for supplier ",
            "type": "main",
            "index": 0
          }
        ],
        [
          {
            "node": "No Operation, do nothing",
            "type": "main",
            "index": 0
          }
        ]
      ]
    },
    "Get email response based on the category": {
      "ai_tool": [
        [
          {
            "node": "AI Agent",
            "type": "ai_tool",
            "index": 0
          }
        ]
      ]
    },
    "labelling company finance": {
      "main": [
        [
          {
            "node": "reply company finance response",
            "type": "main",
            "index": 0
          }
        ]
      ]
    },
    "labelling internal team": {
      "main": [
        [
          {
            "node": "reply internal team response",
            "type": "main",
            "index": 0
          }
        ]
      ]
    },
    "labelling for marketing email": {
      "main": [
        [
          {
            "node": "reply for marketing response",
            "type": "main",
            "index": 0
          }
        ]
      ]
    },
    "labelling for customer relation": {
      "main": [
        [
          {
```

```
              "node": "reply for customer relation response",
              "type": "main",
              "index": 0
            }
          ]
        ]
      },
      "labelling for marketplace email": {
        "main": [
          [
            {
              "node": "reply for marketplace response",
              "type": "main",
              "index": 0
            }
          ]
        ]
      },
      "labelling for supplier ": {
        "main": [
          [
            {
              "node": "reply for supplier response",
              "type": "main",
              "index": 0
            }
          ]
        ]
      }
    }
  },
  "active": false,
  "settings": {
    "executionOrder": "v1"
  },
  "versionId": "83887f31-5c54-4a41-9f84-7667b15973ef",
  "meta": {
    "templateCredsSetupCompleted": true,
    "instanceId": "4332c9bfc365cf11a702c84ec4704879e9022a2b441b07243d0e6e7e0a55123e"
  },
  "id": "nSb82Va2VsrvuEuH",
  "tags": []
}
```

```
{
  "parameters": {
    "language": "python",
    "pythonCode": "# Loop over input items and add a new field called 'myNewField' to the JSON of each one\nimport json
  },
  "type": "n8n-nodes-base.code",
  "typeVersion": 2,
  "position": [
    272,
    -80
  ],
  "id": "399e7563-c0a0-4e77-80b4-4fbca4bdf35c",
  "name": "Code in Python (Beta)"
},
{
  "parameters": {
    "rules": {
      "values": [
        {
          "conditions": {
            "options": {
              "caseSensitive": true,
              "leftValue": "",
              "typeValidation": "strict",
              "version": 3
            },
            "conditions": [
              {
                "leftValue": "={{ $json.output.category }}",
                "rightValue": "company finance",
                "operator": {
                  "type": "string",
                  "operation": "equals"
                },
                "id": "e6765d97-67e0-4c17-a95a-388e32420881"
              }
            ],
            "combinator": "and"
          },
          "renameOutput": true,
          "outputKey": "company finance"
        },
        {
          "conditions": {
            "options": {
              "caseSensitive": true,
              "leftValue": "",
              "typeValidation": "strict",
              "version": 3
            },
            "conditions": [
              {
                "id": "7211283e-3bfd-41c0-8087-799f43af65cd",
                "leftValue": "={{ $json.output.category }}",
                "rightValue": "internal team",
                "operator": {
                  "type": "string",
                  "operation": "equals"
                }
              }
            ],
            "combinator": "and"
          },
          "renameOutput": true,
          "outputKey": "internal team"
        },
```

```json
{
  "conditions": {
    "options": {
      "caseSensitive": true,
      "leftValue": "",
      "typeValidation": "strict",
      "version": 3
    },
    "conditions": [
      {
        "id": "fab6d91d-ff15-4087-8984-5ef97965827c",
        "leftValue": "={{ $json.output.category }}",
        "rightValue": "marketing",
        "operator": {
          "type": "string",
          "operation": "equals"
        }
      }
    ],
    "combinator": "and"
  },
  "renameOutput": true,
  "outputKey": "marketing"
},
{
  "conditions": {
    "options": {
      "caseSensitive": true,
      "leftValue": "",
      "typeValidation": "strict",
      "version": 3
    },
    "conditions": [
      {
        "id": "7ab44e10-d46c-4f0d-bac8-7274011c315a",
        "leftValue": "={{ $json.output.category }}",
        "rightValue": "customer relation",
        "operator": {
          "type": "string",
          "operation": "equals"
        }
      }
    ],
    "combinator": "and"
  },
  "renameOutput": true,
  "outputKey": "customer relation"
},
{
  "conditions": {
    "options": {
      "caseSensitive": true,
      "leftValue": "",
      "typeValidation": "strict",
      "version": 3
    },
    "conditions": [
      {
        "id": "55221e13-b62b-40b0-9c38-84c7e8dcac65",
        "leftValue": "={{ $json.output.category }}",
        "rightValue": "marketplace",
        "operator": {
          "type": "string",
          "operation": "equals"
        }
      }
```

```json
              ],
              "combinator": "and"
            },
            "renameOutput": true,
            "outputKey": "marketplace"
          },
          {
            "conditions": {
              "options": {
                "caseSensitive": true,
                "leftValue": "",
                "typeValidation": "strict",
                "version": 3
              },
              "conditions": [
                {
                  "id": "aa124d30-6246-4012-9cd6-c38056842b80",
                  "leftValue": "={{ $json.output.category }}",
                  "rightValue": "supplier",
                  "operator": {
                    "type": "string",
                    "operation": "equals"
                  }
                }
              ],
              "combinator": "and"
            },
            "renameOutput": true,
            "outputKey": "supplier"
          },
          {
            "conditions": {
              "options": {
                "caseSensitive": true,
                "leftValue": "",
                "typeValidation": "strict",
                "version": 3
              },
              "conditions": [
                {
                  "id": "7c8f30ea-664d-4971-89a5-1aaff319c277",
                  "leftValue": "={{ $json.output.category }}",
                  "rightValue": "spammed email",
                  "operator": {
                    "type": "string",
                    "operation": "equals"
                  }
                }
              ],
              "combinator": "and"
            },
            "renameOutput": true,
            "outputKey": "spammed email"
          }
        ]
      },
      "options": {}
    },
    "type": "n8n-nodes-base.switch",
    "typeVersion": 3.4,
    "position": [
      544,
      -144
    ],
    "id": "d5a1b32a-9b5b-43f2-bf5e-bf27bffd564c",
    "name": "Switch"
```

```
    },
    {
      "parameters": {},
      "type": "n8n-nodes-base.noOp",
      "typeVersion": 1,
      "position": [
        592,
        240
      ],
      "id": "9c83f7fb-5cd4-43a1-afc0-bdc4b70e7844",
      "name": "No Operation, do nothing"
    },
    {
      "parameters": {
        "operation": "addLabels",
        "messageId": "={{ $('Gmail Trigger').item.json.id }}",
        "labelIds": [
          "Label_7897309990221458064"
        ]
      },
      "type": "n8n-nodes-base.gmail",
      "typeVersion": 2.2,
      "position": [
        544,
        -544
      ],
      "id": "90d1d251-6b5f-4f24-9545-b5a09dbb5045",
      "name": "labelling company finance",
      "webhookId": "5f3c1387-5e4b-4559-b12f-9d141812230c",
      "credentials": {
        "info": "REMOVED_FOR_SECURITY"
      }
    },
    {
      "parameters": {
        "operation": "addLabels",
        "messageId": "={{ $('Gmail Trigger').item.json.id }}",
        "labelIds": [
          "Label_4077815796843729479"
        ]
      },
      "type": "n8n-nodes-base.gmail",
      "typeVersion": 2.2,
      "position": [
        800,
        -384
      ],
      "id": "5bd00209-e6e3-4bbc-9508-11f78de9aac2",
      "name": "labelling internal team",
      "webhookId": "c9bca006-b9c6-4a4e-9bcb-584bbf1327aa",
      "credentials": {
        "info": "REMOVED_FOR_SECURITY"
      }
    },
    {
      "parameters": {
        "operation": "addLabels",
        "messageId": "={{ $('Gmail Trigger').item.json.id }}",
        "labelIds": [
          "Label_7089120980341595333"
        ]
      },
      "type": "n8n-nodes-base.gmail",
      "typeVersion": 2.2,
      "position": [
        992,
```

```
        -320
      ],
      "id": "4f2bd891-8dd0-4549-8d59-d24d93903eed",
      "name": "labelling for marketing email",
      "webhookId": "c9bca006-b9c6-4a4e-9bcb-584bbf1327aa",
      "credentials": {
        "info": "REMOVED_FOR_SECURITY"
      }
    },
    {
      "parameters": {
        "operation": "addLabels",
        "messageId": "={{ $('Gmail Trigger').item.json.id }}",
        "labelIds": [
          "Label_5667517685628403091"
        ]
      },
      "type": "n8n-nodes-base.gmail",
      "typeVersion": 2.2,
      "position": [
        1184,
        -160
      ],
      "id": "067e44db-6201-4da7-acf1-3cf072b16875",
      "name": "labelling for customer relation",
      "webhookId": "c9bca006-b9c6-4a4e-9bcb-584bbf1327aa",
      "credentials": {
        "info": "REMOVED_FOR_SECURITY"
      }
    },
    {
      "parameters": {
        "operation": "addLabels",
        "messageId": "={{ $('Gmail Trigger').item.json.id }}",
        "labelIds": [
          "Label_8447733891446692499"
        ]
      },
      "type": "n8n-nodes-base.gmail",
      "typeVersion": 2.2,
      "position": [
        1152,
        192
      ],
      "id": "e55ed500-342f-40a7-87eb-026814096a8a",
      "name": "labelling for supplier ",
      "webhookId": "c9bca006-b9c6-4a4e-9bcb-584bbf1327aa",
      "credentials": {
        "info": "REMOVED_FOR_SECURITY"
      }
    },
    {
      "parameters": {
        "operation": "addLabels",
        "messageId": "={{ $('Gmail Trigger').item.json.id }}",
        "labelIds": [
          "Label_5667517685628403091"
        ]
      },
      "type": "n8n-nodes-base.gmail",
      "typeVersion": 2.2,
      "position": [
        1056,
        -16
      ],
      "id": "92428efb-767b-4923-9ba6-53d2aad3bab5",
```

```
      "name": "labelling for marketplace email",
      "webhookId": "c9bca006-b9c6-4a4e-9bcb-584bbf1327aa",
      "credentials": {
        "info": "REMOVED_FOR_SECURITY"
      }
    },
    {
      "parameters": {
        "operation": "get",
        "documentURL": " https://docs.google.com/document/d/1QP2swggYucxGQPgKpAr0wNDOrZG8Vc15FYmzRhTuidw/edit?usp=sharing"
      },
      "type": "n8n-nodes-base.googleDocsTool",
      "typeVersion": 2,
      "position": [
        112,
        160
      ],
      "id": "58e73461-8009-4093-b44a-99389261305e",
      "name": "Get email response based on the category",
      "credentials": {
        "info": "REMOVED_FOR_SECURITY"
      }
    },
    {
      "parameters": {
        "operation": "reply",
        "messageId": "={{ $json.id }}",
        "emailType": "text",
        "message": "={{ $('Code in Python (Beta)').item.json.output.response }}",
        "options": {}
      },
      "type": "n8n-nodes-base.gmail",
      "typeVersion": 2.2,
      "position": [
        848,
        -576
      ],
      "id": "5638b594-4bff-4f09-a5eb-911d9ac3cb1f",
      "name": "reply company finance response",
      "webhookId": "12e6cf1a-dfd9-498f-ae91-7e13275f67cb",
      "credentials": {
        "info": "REMOVED_FOR_SECURITY"
      }
    },
    {
      "parameters": {
        "operation": "reply",
        "messageId": "={{ $json.id }}",
        "emailType": "text",
        "message": "={{ $('Code in Python (Beta)').item.json.output.response }}",
        "options": {}
      },
      "type": "n8n-nodes-base.gmail",
      "typeVersion": 2.2,
      "position": [
        1120,
        -496
      ],
      "id": "3119371f-8b48-47bf-9478-27df3a9b585f",
      "name": "reply internal team response",
      "webhookId": "12e6cf1a-dfd9-498f-ae91-7e13275f67cb",
      "credentials": {
        "info": "REMOVED_FOR_SECURITY"
      }
    },
    {
```

```
    "parameters": {
      "operation": "reply",
      "messageId": "={{ $json.id }}",
      "emailType": "text",
      "message": "={{ $('Code in Python (Beta)').item.json.output.response }}",
      "options": {}
    },
    "type": "n8n-nodes-base.gmail",
    "typeVersion": 2.2,
    "position": [
      1216,
      -368
    ],
    "id": "299171a1-907c-4069-9c20-35737b3488a8",
    "name": "reply for marketing response",
    "webhookId": "12e6cf1a-dfd9-498f-ae91-7e13275f67cb",
    "credentials": {
      "info": "REMOVED_FOR_SECURITY"
    }
  },
  {
    "parameters": {
      "operation": "reply",
      "messageId": "={{ $json.id }}",
      "emailType": "text",
      "message": "={{ $('Code in Python (Beta)').item.json.output.response }}",
      "options": {}
    },
    "type": "n8n-nodes-base.gmail",
    "typeVersion": 2.2,
    "position": [
      1424,
      -224
    ],
    "id": "53cb9470-8ac2-4a86-976b-46a80382b6e2",
    "name": "reply for customer relation response",
    "webhookId": "12e6cf1a-dfd9-498f-ae91-7e13275f67cb",
    "credentials": {
      "info": "REMOVED_FOR_SECURITY"
    }
  },
  {
    "parameters": {
      "operation": "reply",
      "messageId": "={{ $json.id }}",
      "emailType": "text",
      "message": "={{ $('Code in Python (Beta)').item.json.output.response }}",
      "options": {}
    },
    "type": "n8n-nodes-base.gmail",
    "typeVersion": 2.2,
    "position": [
      1552,
      -80
    ],
    "id": "afa06d6c-0672-4add-b08b-322ee4120a0c",
    "name": "reply for marketplace response",
    "webhookId": "12e6cf1a-dfd9-498f-ae91-7e13275f67cb",
    "credentials": {
      "info": "REMOVED_FOR_SECURITY"
    }
  },
  {
    "parameters": {
      "operation": "reply",
      "messageId": "={{ $json.id }}",
```

```
          "emailType": "text",
          "message": "={{ $('Code in Python (Beta)').item.json.output.response }}",
          "options": {}
        },
        "type": "n8n-nodes-base.gmail",
        "typeVersion": 2.2,
        "position": [
          1648,
          144
        ],
        "id": "6f7d7be5-fc89-45a5-b6c5-2840799db626",
        "name": "reply for supplier response",
        "webhookId": "12e6cf1a-dfd9-498f-ae91-7e13275f67cb",
        "credentials": {
          "info": "REMOVED_FOR_SECURITY"
        }
      }
    ],
    "pinData": {
      "Gmail Trigger": [
        {
          "json": {
            "id": "19bab39f6efe8de1",
            "threadId": "19bab39f6efe8de1",
            "snippet": "Yth. Bapak/Ibu Manajemen, Dengan hormat, Bersama email ini kami sampaikan ringkasan laporan keuangan
            "payload": {
              "mimeType": "multipart/alternative"
            },
            "sizeEstimate": 8759,
            "historyId": "1753",
            "internalDate": "1768104249000",
            "labels": [
              {
                "id": "INBOX",
                "name": "INBOX"
              },
              {
                "id": "CATEGORY_PERSONAL",
                "name": "CATEGORY_PERSONAL"
              },
              {
                "id": "UNREAD",
                "name": "UNREAD"
              }
            ],
            "From": "Valen Andrean <valenandrean29@gmail.com>",
            "Subject": "Laporan Keuangan Bulanan \u2013 Januari 2026",
            "To": "\"valenpalaente@gmail.com\" <valenpalaente@gmail.com>"
          }
        }
      ]
    },
    "connections": {
      "Gmail Trigger": {
        "main": [
          [
            {
              "node": "AI Agent",
              "type": "main",
              "index": 0
            }
          ]
        ]
      },
      "OpenAI Chat Model": {
        "ai_languageModel": [
```