API Documentation Generator Agent

This document outlines the API specification for the Documentation Generator Agent, including its endpoints and all valid input formats.

Agent Endpoints

Health Check

- **URL:** https://api-documentation-agent.onrender.com/health
- **Method:** GET
- **Description:** A simple endpoint to verify that the agent is running.

Documentation Generation

- **URL:** https://api-documentation-agent.onrender.com/execute
- **Method:** POST
- **Content-Type:** application/json
- **Description:** The main endpoint that receives a task assignment and generates documentation.

Agent Inputs

Our Agent accepts three types of inputs:

1. **Code files** (one or more)
2. **Zip file** (whole project in zip format)
3. **Github repository link** (HTTPS .git link)
4.

Note: For each input scenario, the user can optionally provide existing_documentation as a valid JSON object. If provided, the agent will add new endpoints to this object. If it is null, the agent will create a new documentation object from scratch.

Part 1: Agent Inputs (Without Existing Documentation)

These examples show how to generate new documentation from scratch.

1. Github Repository Example (New)

```json
{
  "message_id": "sup-msg-123",
  "sender": "supervisor",
  "recipient": "documentation_generator_agent",
  "type": "task_assignment",
  "timestamp": "2025-11-15T12:00:00Z",
```

```json
  "results/task": {
    "language": "javascript",
    "git_repo_url":
"[https://github.com/Taimoor-Raza-Asif/event-planer.git](https://github.com/Taimoor-Raza-Asif/event-planer.git)",
    "existing_documentation": null,
    "search_patterns": null,
    "zip_file_base64": null,
    "code_files_base64": null
  }
}
```

2. Zip File Example (New)

```json
{
  "message_id": "sup-msg-456",
  "sender": "supervisor",
  "recipient": "documentation_generator_agent",
  "type": "task_assignment",
  "timestamp": "2025-11-15T12:00:00Z",
  "results/task": {
    "language": "java",
    "zip_file_base64": "UEsDBBQA...[the giant Base64 string]...kQAAAAA=",
    "existing_documentation": null,
    "search_patterns": null,
    "git_repo_url": null,
    "code_files_base64": null
  }
}
```

3. Code Files Example (New)

```json
{
  "message_id": "sup-msg-789",
  "sender": "supervisor",
  "recipient": "documentation_generator_agent",
  "type": "task_assignment",
  "timestamp": "2025-11-15T12:00:00Z",
  "results/task": {
    "language": "python",
    "code_files_base64": [
      {
```

      "file_path": "routes/users.py",
      "content_base64": "ZGVmIGdldF91c2VycygpOgogICAgcGFzcw=="
    },
    {
      "file_path": "routes/products.py",
      "content_base64": "ZGVmIGdldF9wcm9kdWN0cygpOgogICAgcGFzcw=="
    }
  ],
  "existing_documentation": null,
  "search_patterns": null,
  "git_repo_url": null,
  "zip_file_base64": null
 }
}

Part 2: Agent Inputs (With Existing Documentation)

These examples show how to **update** existing documentation. The existing_documentation field is populated with a JSON object.

1. Github Repository Example (Update)

{
  "message_id": "sup-msg-124",
  "sender": "supervisor",
  "recipient": "documentation_generator_agent",
  "type": "task_assignment",
  "timestamp": "2025-11-15T12:05:00Z",
  "results/task": {
    "language": "javascript",
    "git_repo_url": "https://github.com/Taimoor-Raza-Asif/event-planer.git",
    "existing_documentation": {
      "openapi": "3.0.0",
      "info": {
        "title": "My Existing API",
        "version": "1.0.0"
      },
      "paths": {
        "/api/v1/health": {
          "get": {

```
        "summary": "Health Check",
        "responses": {
          "200": {
            "description": "Service is healthy"
          }
        }
      }
    }
  },
  "search_patterns": null,
  "zip_file_base64": null,
  "code_files_base64": null
 }
}
```

2. Zip File Example (Update)

```
{
 "message_id": "sup-msg-457",
 "sender": "supervisor",
 "recipient": "documentation_generator_agent",
 "type": "task_assignment",
 "timestamp": "2025-11-15T12:06:00Z",
 "results/task": {
  "language": "java",
  "zip_file_base64": "UEsDBBQA...[the giant Base64 string]...kQAAAAA=",
  "existing_documentation": {
   "openapi": "3.0.0",
   "info": {
    "title": "My Existing Java API",
    "version": "2.1.0"
   },
   "paths": {
    "/api/v2/admin/status": {
     "get": {
      "summary": "Admin Health Check",
      "responses": {
       "200": {
        "description": "Admin service is healthy"
       }
      }
```

```
          }
        }
      }
    },
    "search_patterns": null,
    "git_repo_url": null,
    "code_files_base64": null
  }
}
```

3. Code Files Example (Update)

```
{
  "message_id": "sup-msg-790",
  "sender": "supervisor",
  "recipient": "documentation_generator_agent",
  "type": "task_assignment",
  "timestamp": "2025-11-15T12:07:00Z",
  "results/task": {
    "language": "python",
    "code_files_base64": [
      {
        "file_path": "routes/new_feature.py",
        "content_base64": "ZGVmIGdldF9mZWF0dXJlKCk6CgkgICAgcGFzcw=="
      }
    ],
    "existing_documentation": {
      "openapi": "3.0.0",
      "info": {
        "title": "My Existing Python API",
        "version": "1.0.3"
      },
      "paths": {
        "/api/v1/users": {
          "get": {
            "summary": "Get all users",
            "responses": {
              "200": {
                "description": "A list of users"
              }
            }
          }
```

```
        }
      }
    },
    "search_patterns": null,
    "git_repo_url": null,
    "zip_file_base64": null
  }
}
```