AI-Powered Technical Documentation System

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Overview

The following documentation outlines the structure and purpose of a Python project consisting of various classes, functions, and imports. This project is built using popular Python frameworks and libraries such as FastAPI and Rag.

Purpose

This project is designed to showcase a Python application structure for building robust and scalable APIs using FastAPI and other relevant libraries.

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Classes

Class1

* **Description:** Class1 is a base class designed to provide a starting point for creating new classes.
* **Methods:**
* **`method1()`**: Method1 performs a specific task.
* **`method2(data)`**: Method2 takes in data and processes it accordingly.

```python
```

```
class Class1:
def method1(self):
# implement method1 logic here
pass

def method2(self, data):
# implement method2 logic here
pass
```

Class2 ###

* **Description:** Class2 is a subclass of Class1, inheriting its properties and methods.
* **Methods:**
* **`method3(data)`**: Method3 takes in data and extends the functionality of Method2 in Class1.

```python
class Class2(Class1):
def method3(self, data):
# implement method3 logic here
pass
```

Functions

Function1 ###

* **Signature:** `function1(data: str) -> None`
* **Purpose:** Function1 takes in a string and performs a specific operation.
* **Parameters and Return:**
* `data`: A string input.
* **Return:** No value is returned.

```python
def function1(data: str) -> None:
# implement function1 logic here
pass
```

Function2 ###

* **Signature:** `function2(data: int) -> bool`
* **Purpose:** Function2 takes in an integer and checks its validity.

* **Parameters and Return:**
* `data`: An integer input.
* **Return:** A boolean value indicating the validity of the input data.

```python
def function2(data: int) -> bool:
# implement function2 logic here
pass
```

Imports

Following imports are necessary for this project:

* `os`: For interacting with the file system and performing operating system-related tasks.
* `fastapi`: For building the API using the FastAPI framework.
* `fastapi.middleware.cors`: For enabling CORS (Cross-Origin Resource Sharing) support in the API.
* `rag`: For using the Rag library for machine learning-related tasks.
* `google.genai`: For using the Google GenAI library for generating AI-powered APIs.
* `dotenv`: For loading environment variables from a `.env` file.

How it Works

The project works as follows:

1. The FastAPI framework is used to build the API.
2. The Rag library is used for machine learning-related tasks.
3. The Google GenAI library is used to generate AI-powered APIs.
4. The `os` module is used to interact with the file system.
5. The `dotenv` library is used to load environment variables from a `.env` file.

Example Usage

Here's an example of how to use the `function1` function:

```python
result = function1("Hello, World!")
print(result)
```

Replace `"Hello, World!"` with your desired input string.