

readme.md for @api.global/test-sdk

an sdk for testing ag handlers

Install

To install `@api.global/test-sdk`, you need to have Node.js and npm installed. Follow these steps to install it:

```
npm install @api.global/test-sdk --save
```

This will add `@api.global/test-sdk` to your project's dependencies.

Usage

This document provides a comprehensive guide on how to effectively utilize the `@api.global/test-sdk` module in your project. We will explore various use cases, demonstrate the SDK's capabilities through code examples, and ensure a thorough understanding of its features. This guide assumes that you have basic knowledge of TypeScript and are familiar with the concepts of asynchronous programming.

Getting Started

First, ensure that you are importing the SDK's functionalities as follows:

```
import { AgTestServer, createTestServer, stopTestServer } from '@api.global/test-sdk';
```

Creating and Starting a Test Server

The `@api.global/test-sdk` allows for the creation of test servers with custom handlers. Here's how to set it up:

```

import { createTestServer } from '@api.global/test-sdk';

// Your custom handler should extend from AAgHandler
class MyCustomHandler extends AAgHandler<any> {
  constructor(envManagerArg: AgEnvironment) {
    super(envManagerArg);
    this.slug = 'mycustomhandler'; // Define a unique slug for your handler
  }

  // Implement required handler methods here
}

async function setupTestServer() {
  const testServer = await createTestServer(MyCustomHandler);
  console.log('Test server started successfully');
  return testServer;
}

```

Sending Requests to the Test Server

With the test server running, you can now simulate requests. Let's demonstrate how to send a request to the custom handler and evaluate the response:

```

import { testFire } from '@api.global/test-sdk';

async function testRequest() {
  const testResponse = testFire<MyCustomHandler, MyRequestInterface>(
    'mycustomhandler', // The slug of your handler
    'POST', // The HTTP method
    { // The request body
      key: 'value'
    }
  );

  // Expecting a response from the server
  const expectedResponse = await testResponse.expect({
    expectedKey: 'expectedValue'
  });

  console.log('The expected response was received:', expectedResponse);
}

```

```
}
```

Stopping the Test Server

It's important to properly shut down the test server once your testing is complete to free up resources:

```
async function shutdownTestServer() {  
  await stopTestServer();  
  console.log('Test server stopped successfully');  
}
```

Full Example

Here's how everything comes together in a script:

```
import { AgTestServer, createTestServer, stopTestServer, testFire } from '@api.global/test-sdk';  
  
class MyCustomHandler extends AAgHandler<any> {  
  // Implementation of the custom handler...  
}  
  
async function main() {  
  const server = await setupTestServer();  
  
  await testRequest();  
  
  await shutdownTestServer();  
}  
  
main().catch(console.error);
```

This guide provides a foundational understanding of how to utilize `@api.global/test-sdk` for testing purposes. Through the creation of a test server, the execution of requests, and the evaluation of responses, developers can simulate real-world scenarios and ensure that their applications behave as expected in a controlled environment.

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Task Venture Capital GmbH
Registered at District court Bremen HRB 35230 HB, Germany

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