Exercise 6: SwaggerHub

As of the writing of this exercise, SwaggerHub lets you create an account for one use for free. Let's try it out.

Create a SwaggerHub account

1. Open a browser tab and navigate to https://swaggerhub.com/
2. Click on **Sign Up for Free**.
3. Click on **Start Free** under the **Free** section.
4. Sign up, either through GitHub or using your email
5. When it asks for an organization, click **Skip and Continue with Free Account**.
6. Click **Done**.

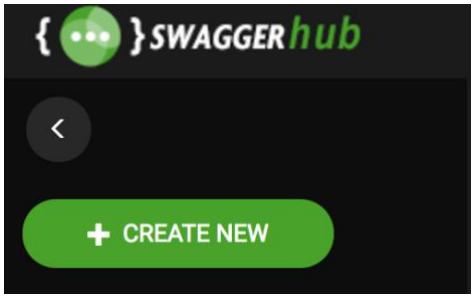
Add Operation Ids

SwaggerHub requires that all operations (that is, methods for a particular path) have operationIds.

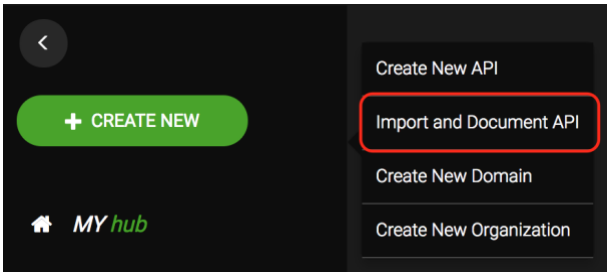
1. In the Swagger editor, open the YAML file that you saved from the documentation exercise.
2. Add operationId keys and names to each method section (get, post, etc.). The name can be whatever you like, as long as its unique. For example, you could choose deletePlaylist for the DELETE method.
3. Save your file.

Import your OAS file

1. In the top left corner, click on **+ Create New**.



2. Click on **Import and Document API**.

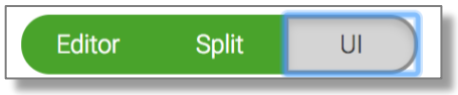


3. Click **Browse** and navigate to the YAML file that you saved.
4. Click **Upload File**. You should get the message, “The resource is valid YAML”.
5. Click **Import Swagger**.

View Documentation

At this point you should see the Swagger editor. It looks like the one you’ve been using, but it’s got some buttons on top that show you just the editor, just the documentation, or a split view of both.

1. Click **UI** to see the full documentation.



2. Note that the documentation is similar to the Swagger editor’s right side, but a little nicer.
3. Click on a line (such as **GET**), it will expand and show you the full documentation.
4. Click on the line **GET /playlist/{playlist-id}**. Scroll down to responses and you will now see an example response in JSON. If you click on **Model**, you will see the model with its descriptions.

5. Scroll to the bottom to see all of the schemas, which are called Models. Click on the > to open up any model to see more details.

Publish

The API is public, so you can click on the share button at the upper right to share it with anyone: 
This will give you a URL that anyone can see.

When you feel your API definition is ready for production use, you can publish it. Publishing is a way to show that the API is in a stable state and its endpoints can be reliably called from other applications.

Publishing makes the API definition read-only, so any changes you make after that point will be saved as a different version of the API.

1. Click on the menu with three dots in the upper right: 
2. Choose **Publish**.
3. Click **Publish Version**

Generate Code

Let's say you wanted to have a JavaScript SDK to make it easy to call your API. SwaggerHub will generate it automatically for you.

1. Click the download button at the upper right: 
2. Select **Client**, then **JavaScript**.
3. A file called **javascript-client-generated.zip** will be downloaded.

That's it! Your SDK is ready to go.

If you unzip and look in the **docs** folder, you'll find some Markdown files. You can read these in a Markdown editor. Here's a table that shows some of the methods that were created to make the calls to your API:

Method	HTTP request	Description
getImage	**GET** /playlist/{playlist-id}/image	
playlistGet	**GET** /playlist	
playlistPlaylistIdDelete	**DELETE** /playlist/{playlist-id}	
playlistPlaylistIdGet	**GET** /playlist/{playlist-id}	
playlistPost	**POST** /playlist	

Each of these methods has autogenerated sample code on how to use them.

So that gives you an idea of what you can do on SwaggerHub.