Functions (Fission)

This guide aims to help you get started with Hogwarts Functions (Fission). After following this guide, you should be able to create, test, and deploy your first Function on the Hogwarts platform!

You can view the functions and create your own on Spellbook. Look for the f(x) icon!

Vocabulary

Before starting with Fission, here are a few Fission specific concepts you should know about:

Creating your Function

The basics for creating your initial Python Function are the following:

There is a template repository that you can use to get started. If your repository is inside the CCCS Github, you are ready to go. If you are creating the function under another group or your user, you must allow `sa-spellbook` as a collaborator and message in the Microsoft Team's channel to get this approved.

2. Authentication

Built into the Python environment is an authorization package that allows you to control access to the function. The wrapper function defaults to ALPR members but can be any valid Azure security group ID.

```python
from hogwartsfission import auth

@auth.requires_auth()
def main():
    return "You have ALPR access!"
```

Custom azure Security Group

```python
from hogwartsfission import auth

AZURE_SEC_GROUP = "abcdef-1234-ghijk-567890"

@auth.requires_auth(AZURE_SEC_GROUP)
def main():
    return "You are in my custom security group!"
```

Note: By default, all functions deployed in U are restricted to the hogwarts-unclass-users-sg and all functions deployed in PB are restricted to the ALPR group.

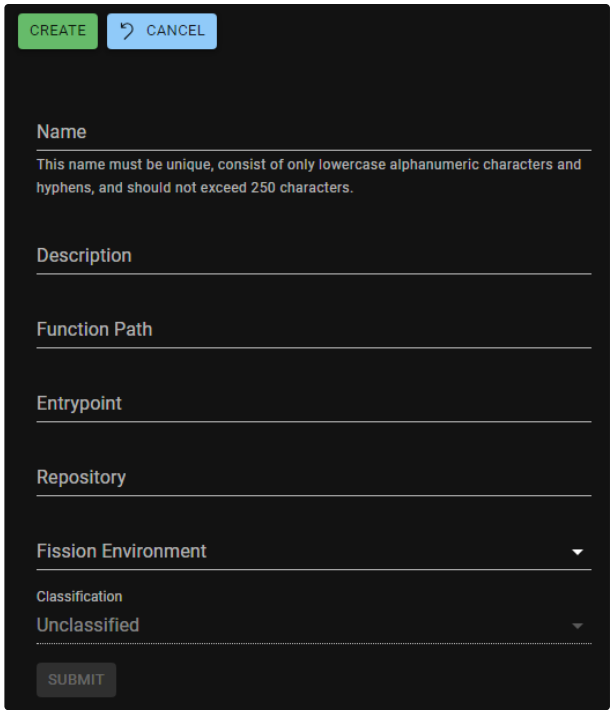
3. Logging

When logging in the Spellbook Functions environment, you must use the flask logger as it does not support print() for logging. To do this, import current_app from flask.

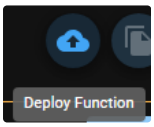
```python
from flask import current_app

def main():
    current_app.logger.info("This is a log message")
    return "Hello, World"
```

4. Deploy your function

When creating a function, you will be required to fill out the following information.



More information regarding these fields is in the `How to Get Started` prompt on the right side of the screen here. After creating your function, you will have to deploy it to enable it via this button:



Testing your Function

Here is how to test your Function

Testing

After you have deployed your function, logs will begin to appear as Python validation and logging information become available. This will be shown in Spellbook on the right-hand side after deploying.

These logs can be filtered and searched via time queries shown below.

Examples

To quick start your Function journey, the Hogwarts team offers a repository containing Function templates that can help you start your next Function.

Function Examples

Feedback

We are always looking to improve our documentation. If you encountered any obstacles while going through this guide, feel free to reach out to us through our Microsoft teams support channel.

More information & links

Official docs

- Fission Concepts
- More Fission Functions