# Endpoint Being Tested: http://127.0.0.1:5000/assignment\_feedback

Case: Successful execution and feedback generation

**Request Method: POST** 

Inputs:

```
{
   "user_id": 1,
   "code": "def greet(name):\n print(f'Hello, {name}')\n\ngreet('World')"
}
```

#### **Expected Output:**

```
HTTP Status Code: 200 and JSON with 'execution_result' and 'feedback'
```

### **Actual Output:**

```
HTTP Status Code: 200

JSON: {"execution_result": "Hello, World", "error": null, "feedback": "- **Errors Found:** No apparent syntax, indentation, or runtime errors are present in the provided code snippet. However, the code lacks robustness and flexibility which could lead to issues with different inputs or usage contexts.\n\n\n- **Suggested Improvements:** The function currently only prints to the console. Consider exploring ways to make the function more versatile, perhaps allowing it to return a value instead of solely printing. The handling of the input `name` could be improved to gracefully handle unexpected input types or empty strings.\n\n\n- **Best Practices:** While functional, the code could benefit from more descriptive variable names if a more complex application were to use it. Adding docstrings to explain the function's purpose and parameters would enhance readability and maintainability, especially in larger projects. Consider using more robust input validation to ensure the function handles various scenarios gracefully."}
```

**Result:** Success

**Case:** Code with syntax error (missing colon)

**Request Method: POST** 

Inputs:

```
{
   "user_id": 2,
   "code": "def add(a, b)\n return a + b\n\nprint(add(5, 3))"
}
```

### **Expected Output:**

```
HTTP Status Code: 200 and JSON with 'error' and 'feedback'
```

#### **Actual Output:**

```
HTTP Status Code: 200
JSON: {"execution_result": "", "error": {"type": "SyntaxError", "message":
"expected ':' (<string>, line 1)"}, "feedback": "- **Errors Found:**\n\nThe code
contains a syntax error related to the function definition and a potential
indentation error. The `return` statement's placement relative to the function
definition is crucial and needs to be carefully examined. Additionally, a missing
colon after the function definition's parameter list is a clear syntax error that
prevents execution.\n\n- **Suggested Improvements:**\n\nThe function definition
should be reviewed to ensure the correct syntax for defining a function in Python.
Pay close attention to the placement of the `return` statement and the use of
colons to properly delimit code blocks. The use of consistent and appropriate
indentation is vital for Python code readability and execution. Consider adding
docstrings to clearly explain the function's purpose and parameters.\n\n- **Best
Practices:**\n\nUsing a consistent indentation style (e.g., 4 spaces) throughout
the code improves readability. Adding a docstring to the `add` function would
enhance its understandability and maintainability. Employing meaningful variable
names would further improve the clarity of the code. Consider adding basic input
validation to handle potential errors or unexpected input types. Finally, more
comprehensive testing would help identify potential issues earlier in the
development process."}
```

**Result: Success** 

Case: Empty code submission

**Request Method: POST** 

Inputs:

```
{
   "user_id": 3,
   "code": ""
}
```

# **Expected Output:**

```
HTTP Status Code: 400 and error message
```

# **Actual Output:**

```
HTTP Status Code: 400
JSON: {"error": "Code cannot be empty"}
```

**Result:** Success

Case: Missing required field: user\_id

**Request Method: POST** 

Inputs:

```
{
    "code": "print('Hello')"
}
```

# **Expected Output:**

```
HTTP Status Code: 400 and error message about missing user_id
```

# **Actual Output:**

```
HTTP Status Code: 400
JSON: {"message": {"user_id": "User ID is required"}}
```

**Result:** Success