

a cloud-hosted digital platform developed in ISG that revolutionises assessment and feedback practices in higher education.

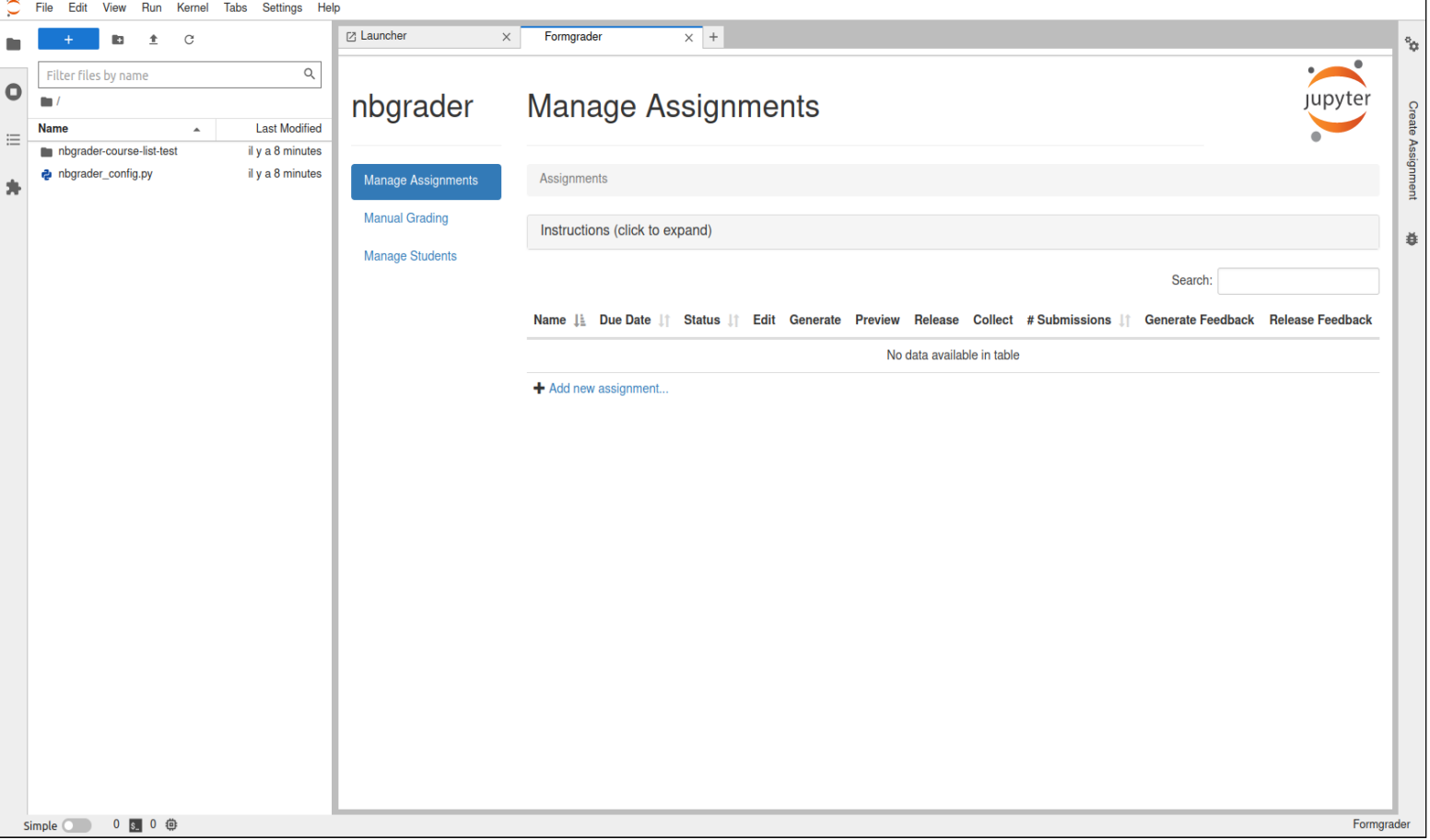
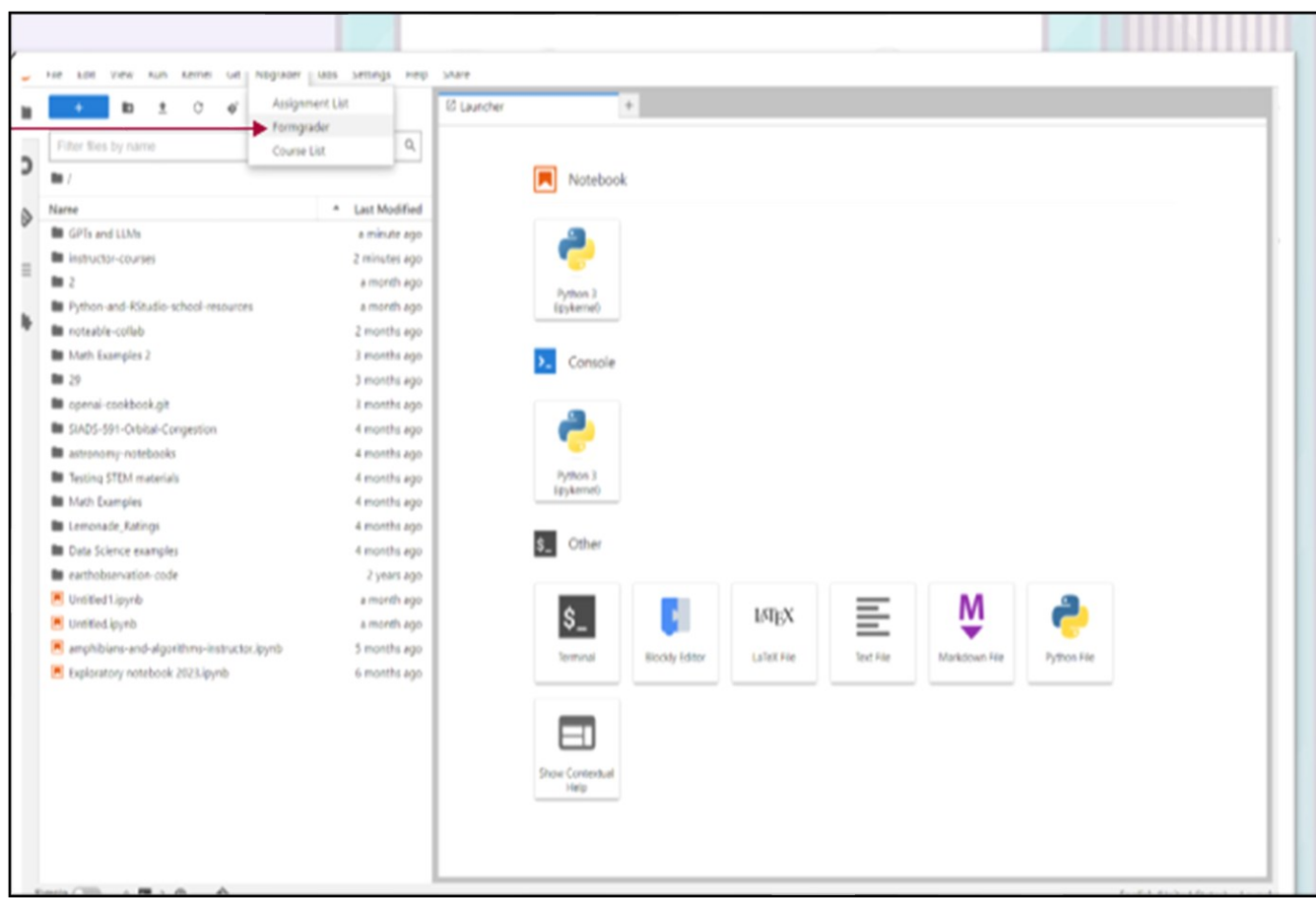
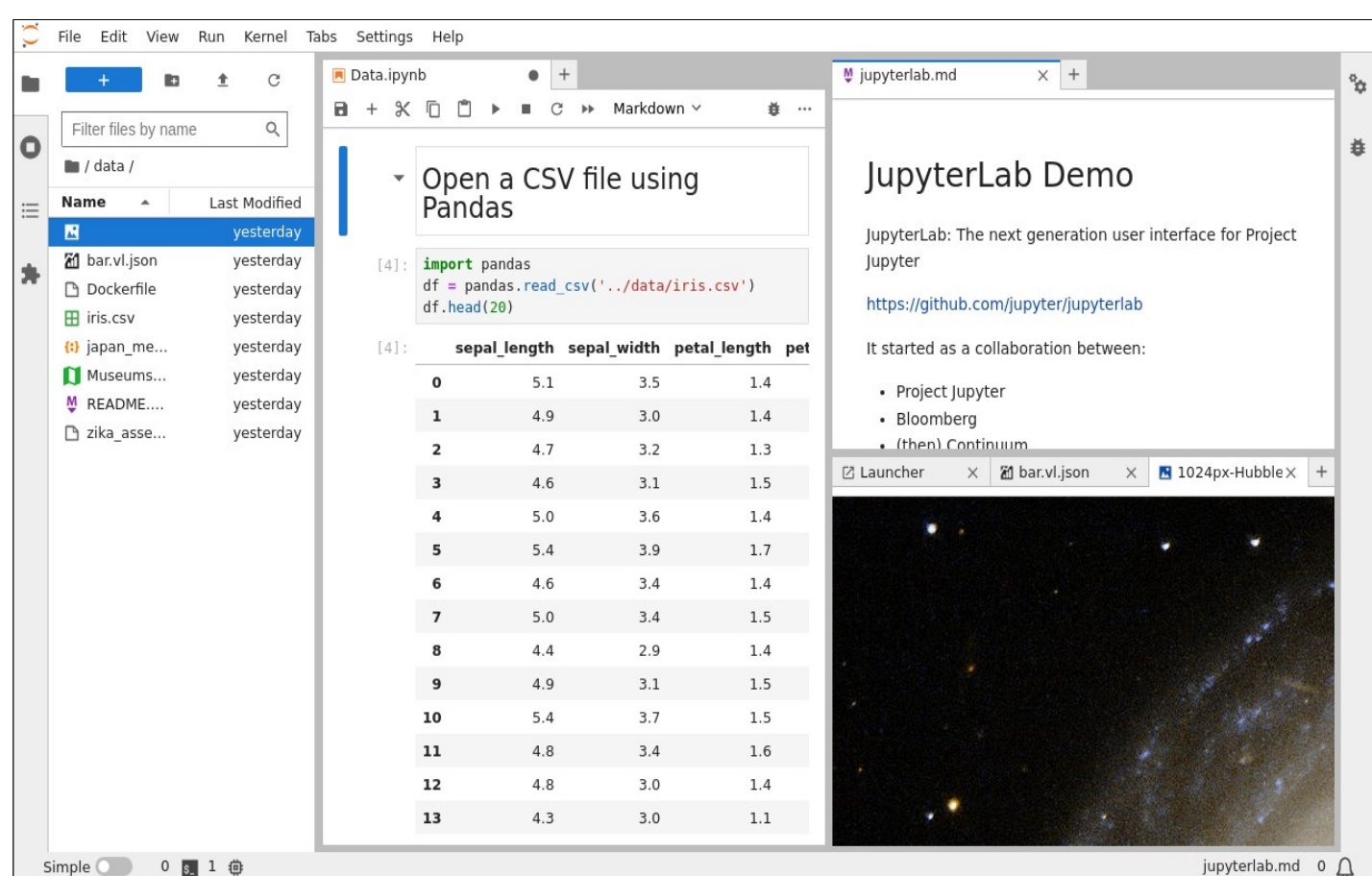
Designed to integrate with academic curricula and virtual learning environments, Noteable offers educators robust tools for creating equitable, accessible coding assignments. The focus on digital inclusivity supports a diverse range of student needs, fostering fair environments for code assignments in courses.

By integrating Noteable, educators enhance student engagement and teaching efficiency through with auto-grading and real-world applications. Discover how Noteable can elevate your educational methods.

Why Noteable?

Aligning with Teaching and Learning Priorities

- Inclusive Assessment and Feedback:**
Noteable's tools cater to diverse student abilities and backgrounds, promoting equity in education.
- Innovation and Technological Opportunities:**
Leverages cutting-edge technology to transform traditional assessment models, encouraging authentic learning experiences.



based on open-source Jupyter notebooks ecosystem

Code grading Features

manage course-level assignments and data in one place

- Efficiency:** Automates the grading process to provide instant feedback, allowing educators to focus on qualitative assessment.
- Consistency:** Ensures uniform evaluation criteria across all coding assignments, enhancing fairness.
- Scalability:** Accommodates large classes without compromising the quality of feedback or the assessment process.

Engage, Learn, Innovate:

Discover how Noteable can elevate your coding assessments. Join thousands of users across institutions in pushing the boundaries of traditional education through innovative, inclusive, and technologically advanced methodologies. One integration for multiple instructors to benefit from code (auto)grading in courses.

Tests in "Autograder tests" cells can be automatically and dynamically generated through the use of the special syntax `### AUTOTEST` and `### HASHED AUTOTEST`. This syntax allows you to specify only the objects you want to test, rather than having to write the test code yourself manually; `nbgrader` will generate the test code for you. For example,

```
In [ ]: def squares(n):  
    """Compute the squares of numbers from 1 to n, such that the  
    ith element of the returned list equals i^2.  
    """  
    ### BEGIN SOLUTION  
    if n < 1:  
        raise ValueError("n must be greater than or equal to 1")  
    return [i**2 for i in range(1, n + 1)]  
    ### END SOLUTION  
  
Your function should print [1, 4, 9, 16, 25, 36, 49, 64, 81, 100] for n = 10. Check that it does:  
  
In [ ]: squares(10)  
  
In [ ]: """Check that squares returns the correct output for several inputs"""  
### AUTOTEST squares(1); squares(2)  
### HASHED AUTOTEST squares(3)
```

Tests in "Autograder tests" cells can be hidden through the use of a special syntax such as `### BEGIN HIDDEN TESTS` and `### END HIDDEN TESTS`, for example:

```
In [ ]: """Check that squares returns the correct output for several inputs"""  
assert squares(1) == [1]  
assert squares(2) == [1, 4]  
### BEGIN HIDDEN TESTS  
assert squares(10) == [1, 4, 9, 16, 25, 36, 49, 64, 81, 100]  
assert squares(11) == [1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121]  
### END HIDDEN TESTS  
  
In [ ]: """Check that squares raises an error for invalid inputs"""  
try:  
    squares(0)  
except ValueError:  
    pass  
else:  
    raise AssertionError("did not raise")  
### BEGIN HIDDEN TESTS  
try:  
    squares(-4)  
except ValueError:  
    pass  
else:  
    raise AssertionError("did not raise")  
### END HIDDEN TESTS
```

"Autograded answer" cells

If you select the "Autograded answer" option (available only for code cells), the nbgrader extension will mark that cell as a cell that contains an answer which will be autograded. Here is an example of an autograded graded answer cell:

Part A (2 points)

Write a function that returns a list of numbers, such that $x_i = i^2$, for $1 \leq i \leq n$. Make sure it handles the case where $n < 1$ by raising a `ValueError`.

In []: def squares(n):
 """Compute the squares of numbers from 1 to n, such that the
 ith element of the returned list equals i^2.
 """
 ### BEGIN SOLUTION
 if n < 1:
 raise ValueError("n must be greater than or equal to 1")
 return [i**2 for i in range(1, n + 1)]
 ### END SOLUTION

Type: Autograded answer
ID: squares
Points: 2.0

If you select the "Autograder tests" option (available only for code cells), the nbgrader extension will mark that cell as a cell that contains tests to be run during autograding. Here is an example of two test cells:


In []: """Check that squares returns the correct output for several inputs"""
assert squares(1) == [1]
assert squares(2) == [1, 4]
assert squares(10) == [1, 4, 9, 16, 25, 36, 49, 64, 81, 100]
assert squares(11) == [1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121]

In []: """Check that squares raises an error for invalid inputs"""
try:
 squares(0)
except ValueError:
 pass
else:
 raise AssertionError("did not raise")

try:
 squares(-4)
except ValueError:
 pass
else:
 raise AssertionError("did not raise")

jupyter/nbgrader

A system for assigning and grading notebooks



Multiple Classes

```
graph LR  
    Jupyter((jupyter/nbgrader)) --> C1[./services/courses1  
Formgrader for Course 101]  
    Jupyter --> C2[./services/courses2  
Formgrader for Course 102]  
    Jupyter --> C3[./services/courses3  
Formgrader for Course 123]  
    C1 --> ID[Exchange Directory]  
    C2 --> ID  
    C3 --> ID
```

For code cells, there are five options to choose from, including "Manually graded answer", "Manually graded task", "Autograded answer", "Autograder tests", and "Read-only".

Type: Autograded answer
ID: 1
Manually graded answer
Manually graded task
Autograded answer
Autograded tests
Read-only
Type

For code cells, there are five options to choose from, including "Manually graded answer", "Manually graded task", "Autograded answer", "Autograder tests", and "Read-only".

Type: Autograded answer
ID: 1
Manually graded answer
Manually graded task
Autograded answer
Autograded tests
Read-only
Type

