

From: s24-5pm-2
Date: Thu, June 3rd, 2024 at 5:00 PM
Subject: Organic new release
To: Phil Conrad and other teaching staff of CS156

Here's a summary of our changes

User-Focused Changes

[Feature] Add information about the app on the Home Page:
When you log into the website, there is a greeting to the user and it also describes what the website is modeled from by providing the link.

Good afternoon, NevMan1

This app is intended as a replacement for the [ucsb-cs-github-linker](#) app used in many courses at UCSB, as well as some courses at other universities.

This where the link sends a user

Welcome Student

If you are looking for courses you are currently enrolled in, go to the [courses](#) page. Otherwise you can find a list of courses you can enroll in.

Course Name	Search courses...			
School ▾ ▲	Name ▾ ▲	Term ▾ ▲	Course Organization ▾ ▲	Join ▾
UCSB	ucsb-cs156-s24	s24	ucsb-cs156-s24	You have already joined the course: ucsb-cs156-s24
WSU	CPTS421-F23	Fall 2023 - Spring 2024	WSUCptSCapstone-F23-S24	Join
WSU	CPTS421-S24	Spring 2024 - Fall 2024	WSUCptSCapstone-S24-F24	Join
UCSB	ucsb-cs16-s24	S24	ucsb-cs16-s24	Join
UCSB	CS32 S24	S24	ucsb-cs32-s24	Join
UCSB	alolib-s24	s24	alolib-s24	Join

This way, the user can see what the old app looked like.

The PR for this feature:

<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/31>

[Feature] Adds H2 Console to Navbar:

As a developer I can easily turn on the H2 option on the app navbar for any deployment through defining an environment variable H2 so that it is easy to access swagger when I need it, but I can easily turn it off when I don't. Allows developers to set a variable called H2 to true or false in their config variables. Adding these couple of lines on the application files allows for the H2 option on the navbar. Now, based on the dokku config value being true or false, it will give a H2 option. This makes the NavBar much more complete.



Above is when dokku config H2 is set to true.

The PR that completes this feature is:

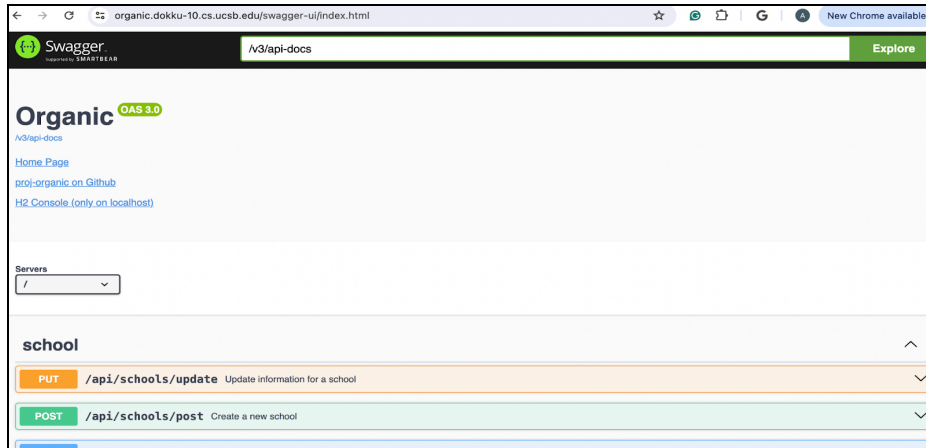
<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/14>

[Feature] Adds Show Swagger Link to Navbar:

As a developer, I have the ability to toggle the visibility of the Swagger UI link in the app's navbar for any deployment. This is accomplished by setting an environment variable, SHOW_SWAGGER_UI_LINK, to either true or false. By adding a few lines of code to the application files, this environment variable controls the presence of the Swagger option on the navbar, making it easy to access when needed and hidden when not. The visibility of Swagger is determined by the value of this configuration variable in Dokku.



The swagger link sends you below:



This way, you can directly go to the swagger side of the app from simply clicking a button.

The PR for this feature is:

<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/13>

[Feature] Creates Courses Show Page with Hyperlinks:

In this feature update, I implemented the CourseShowPage component along with its accompanying test file to enhance the application's functionality. Additionally, I made modifications to the CourseTable file to include hyperlinks in the id column of every row. Now, each id is clickable and directs the user to the corresponding course detail page. Currently, when an id is selected, the application displays a table showing only the row associated with that id, providing a focused view of the course details. To facilitate navigation and accessibility, I have also updated the App.js file by adding the necessary routes. This integration ensures a seamless user experience, allowing for efficient access to specific course information directly from the course table.

As seen below, the course table ID numbers are now hyperlinked:

Course Create Course									
Total Courses: 2									
id	Name	School	Term	StartDate	EndDate	GitHub Org	Staff	Edit	Delete
1	testGaucha	UCSB	S23	2024-03-04T17:25:00	2024-06-07T17:25:00	cows	<button>Staff</button>	<button>Edit</button>	<button>Delete</button>
2	testGaucha2	University of Toronto	Spring	2024-01-08T18:01:00	2024-05-31T18:01:00	testGaucha2GithubOrg	<button>Staff</button>	<button>Edit</button>	<button>Delete</button>

When clicking on a hyperlink, this pops up:

Individual Course Details

Total Courses: 1

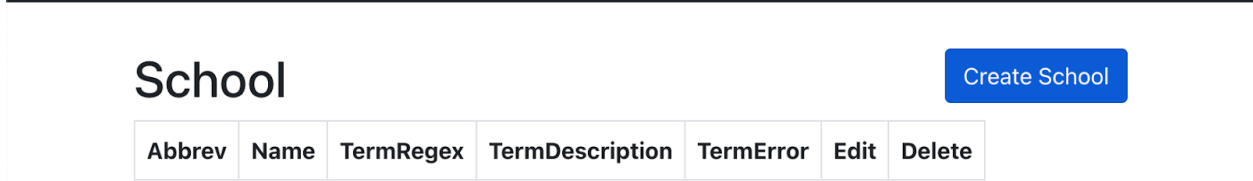
id	Name	School	Term	StartDate	EndDate	GitHub Org	Staff	Edit	Delete
2	testGaucho2	University of Toronto	Spring	2024-01-08T18:01:00	2024-05-31T18:01:00	testGaucho2GithubOrg	Staff	Edit	Delete

The PR for this feature:

<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/29>

[Feature] Option to create, edit, and delete schools

In this feature update, a menu option for schools is created, allowing the admin to create, edit, and delete schools from the database. The menu option and “Create School” button are shown below:



By providing the parameters: abbreviation, name, term regex, term description, and term error, you can create a new school:

Create New School

Abbreviation

ucsb

Name

UC Santa Barbara

Term Regex

regex1

Term Description

S24

Term Error

Error 1

Create

Cancel

After the school has been created, you now have the option to create another school, edit a school you’ve already created, or

delete a school you created:

School

Create School

Abbrev	Name	TermRegex	TermDescription	TermError	Edit	Delete
ucsb	UC Santa Barbara	regex1	S24	Error 1	<button>Edit</button>	<button>Delete</button>

The edit school page appears as follows:

Edit School

Abbreviation

Name

Term Regex

Term Description

Term Error

Update Cancel

PRS for this feature:

<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/41>

<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/46>

<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/47>

Developer-Focused Changes

[Feature] Allows for Partial Pitest:

This feature enables partial pitests which helps code testing and debugging be much more efficient. This being because you can now pitest a singular test file, rather than having to test the whole folder every single time.

```
abhishekambastha@169-231-36-216 proj-organic-s24-5pm-2 % mvn pitest:mutationCoverage -DtargetClasses=edu.ucsb.cs156.org  
anic.controllers.RestaurantsController
```

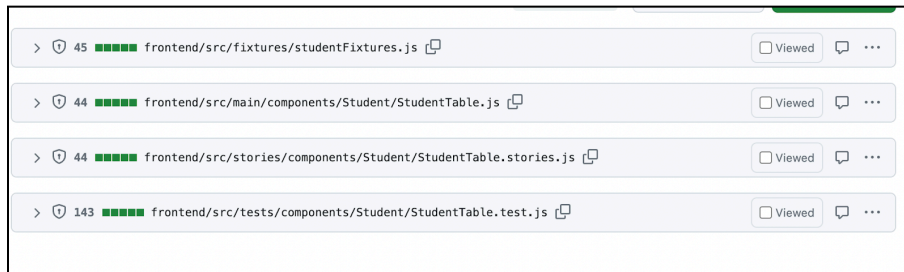
For instance, in the image above, we can run pitest mutation coverage on a singular controller class rather than the whole package.

PR covering the feature:

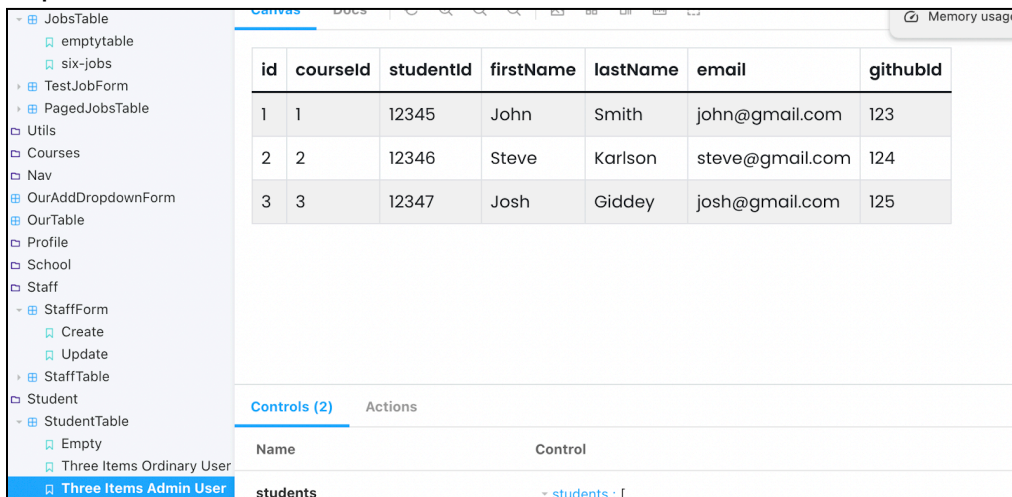
<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/22>

[Feature] Adds the Student Table:

In this feature, I introduced a React component specifically designed for the student table. This development lays the groundwork for incorporating this table into the Courses Show Page in an upcoming task. The current update includes several key elements: the student fixtures, which provide sample data for testing; the student stories, which outline various user interactions with the component; the student table itself; and the tests for the student table to ensure functionality and reliability. In the next stage of development, this component will be integrated and displayed on the Courses Show Page, enhancing the user interface and data accessibility for users. This is a developer-focused backend change so it is not visible on the frontend. The added files for this change are:



On stories, you can see the table for the default three users input values:



The link for this PR is:

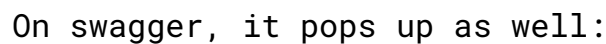
<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/39>

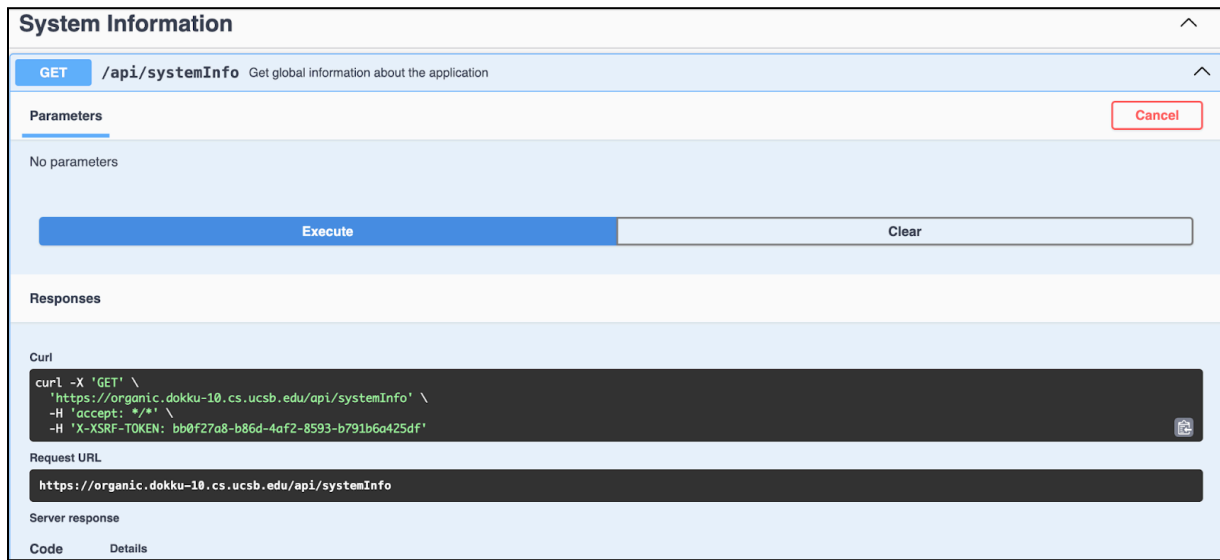
[Feature] Update to Spring Boot 3

[illegible]

The link for this PR is:
<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/12>

When you go to the `/api/systemInfo` page the information about the most recent commit is displayed along with the commit url link. Also the commit text and ID number is displayed as needed.



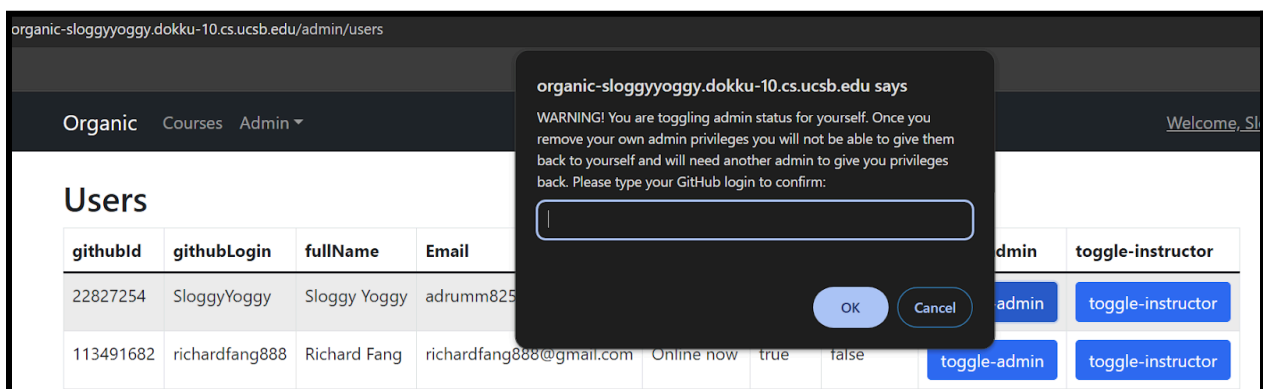


The link for this PR is:

<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/28>

[Feature] Pop up window when you try to change your own admin permissions:

When you click on your own admin permissions, it will create a window popup telling you about the dangers of removing your own admin permissions and asking you to type in your github id to show that you are sure that you want to change your admin permissions. This is useful so that you do not accidentally remove admin status from yourself which could be quite detrimental in the real world.

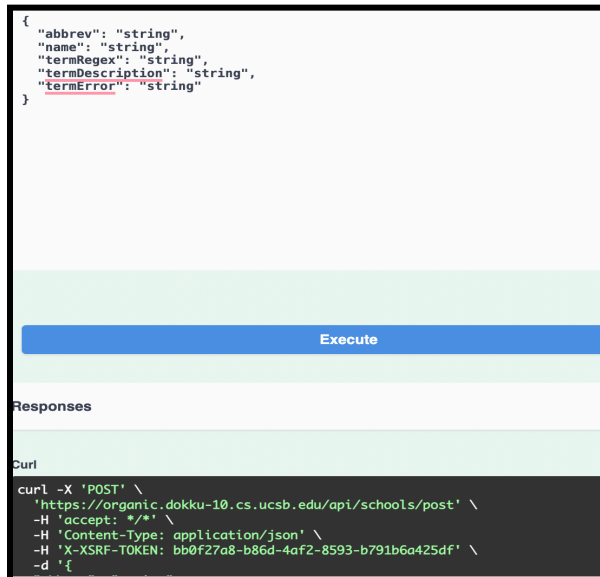


The link for this PR is:

<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/50>

[Feature] Backend changes for frontend school instantiation:

There was an issue with the frontend instantiation on the localhost deployment of the app with regards to the frontend. By changing the SchoolController to instantiate a school object as a data object rather than its individual params, it allows for the frontend to be implemented for school. On swagger, these changes are reflected.



PR for this feature:

<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/40>

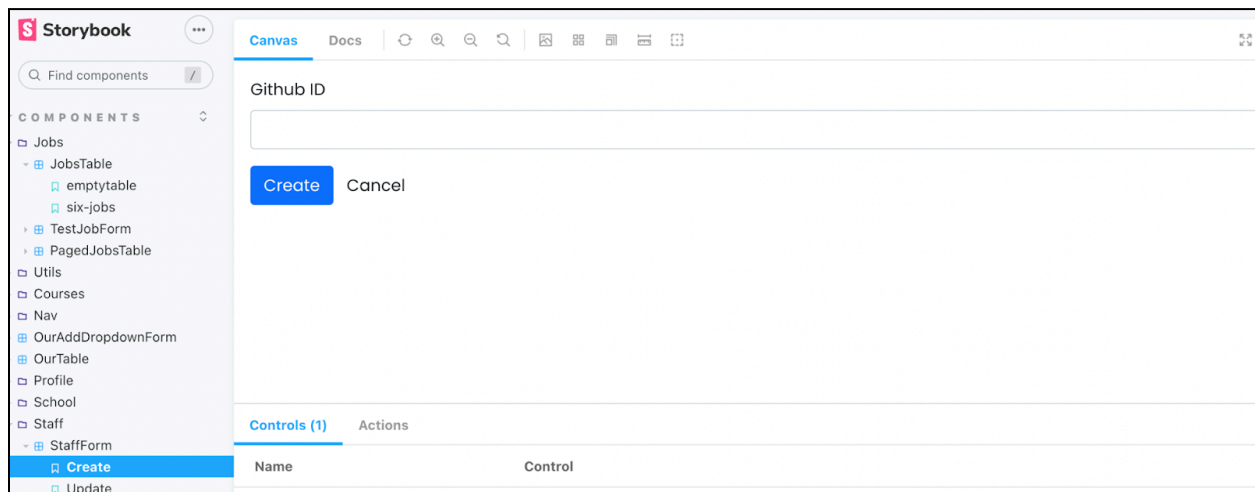
[Feature] Form for Staff complete with tests and story

For a given course, identified by a specific courseId, I've developed a form to facilitate the addition of staff members. This form, which will be featured on the Staff creation page, requires the entry of a githubId. To ensure data integrity and minimize errors, the githubId input is subject to validation to confirm that it adheres to the expected format and criteria. In order to guarantee the functionality and reliability of this new feature, I have also created a comprehensive test suite. This suite tests the form's behavior under various conditions, including scenarios where invalid githubId entries are made. By simulating user inputs and checking for correct validation responses and data handling, these tests help ensure that the form operates correctly and efficiently in a live environment,

enhancing the robustness of the staff addition process. From swagger, this is the form and the values that need to be inputted. An image of that is below:

```
Staff {
  id
  courseId > [...]
  githubId > [...]
  user > [...]
  User > {...}
}
```

In addition, the staff form stories file was made which can be seen below:



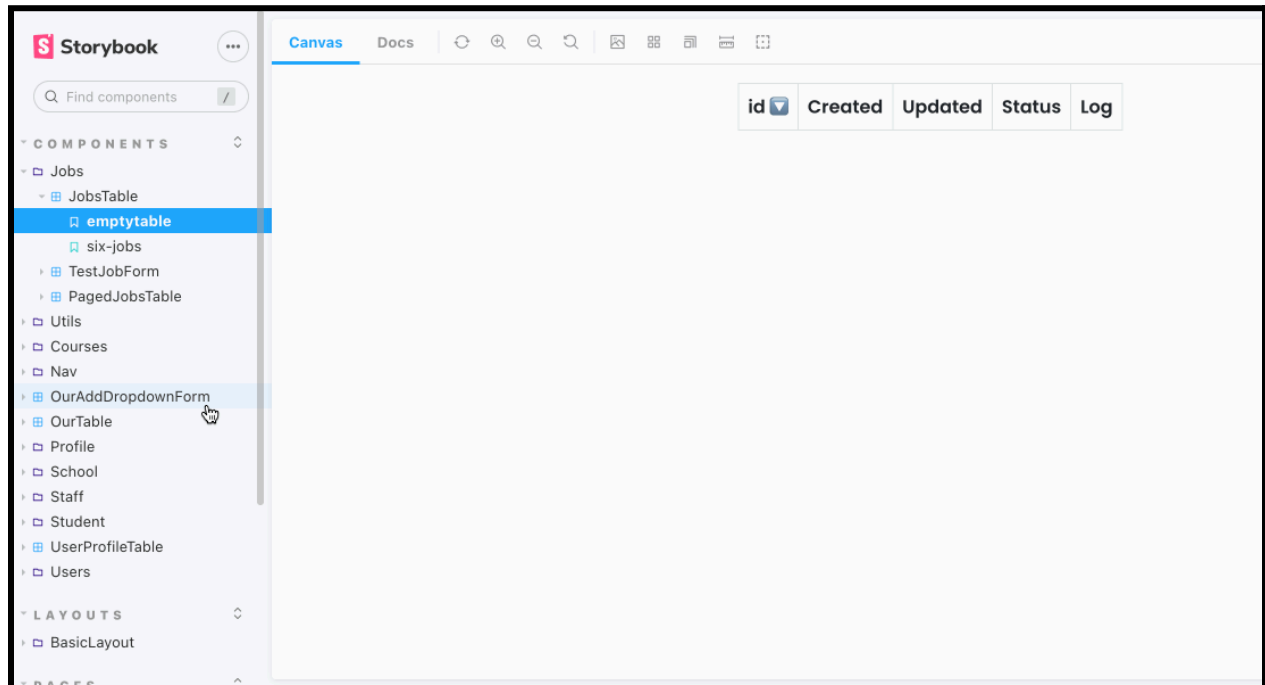
PR completing this feature:

<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/10>

[Feature] Generic dropdown (only visible on storybook)

Developers have access to create a dropdown from an array of content and be placed / used within any Form. There is an **autocomplete** field, that allows a variant of the Form that allows the user to type, autocomplete, and still choose from a dropdown. To enhance the dropdown with an autocomplete

functionality, a text input field is provided where users can type. As the user types, the dropdown filters its options based on the user's input, showing only those options that match the entered text. This is particularly useful in cases where the list of options is extensive, helping users find their choice quicker.



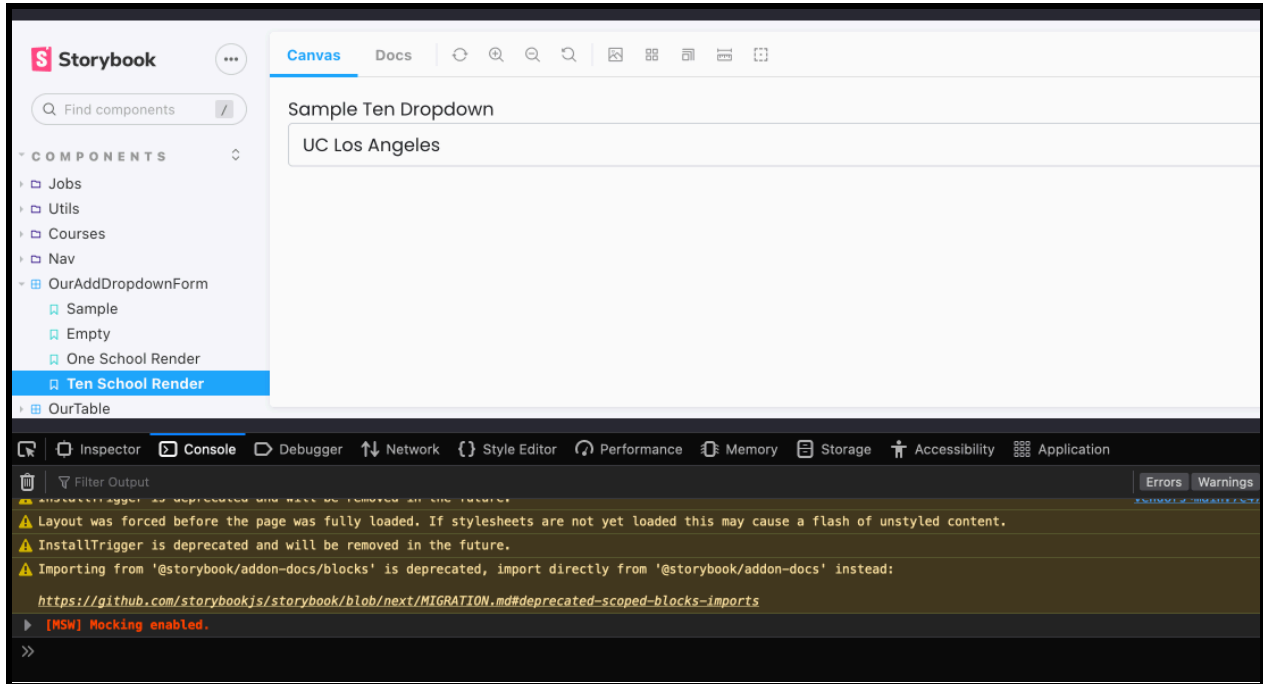
PRs completing this feature:

<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/32>

<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/35>

[Feature] School Dropdown (only visible on storybook)

Dropdown that retrieves schools from the backend and displays them. Future developers can use this to refactor into courseForm. The backend should have an endpoint that provides a list of schools. This could be a REST API that returns data in JSON format. For instance, a GET request to /api/schools might return an array of school objects which is then put in the dropdown.



PRs completing this feature:

<https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/49>

PRs that went into the release notes above:

Here are the pull requests (PRs) that contributed to the updates mentioned in the release notes above. You might find it interesting to observe how the descriptions from these PRs were condensed and incorporated into the summary of the release notes below.

- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/10>
- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/12>
- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/13>
- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/14>
- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/22>
- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/28>
- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/29>
- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/31>
- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/32>
- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/35>
- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/39>
- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/40>
- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/41>

- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/46>
- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/47>
- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/49>
- <https://github.com/ucsb-cs156-s24/proj-organic-s24-5pm-2/pull/50>