CATALOG

- View the Student’s Github Commit

- Manage Users

Use case: As an admin user, I want to manage user authorization for the app.

The Capstone Dashboard restricts access to all users by default. A supplementary CLI tool is provided for managing users.

Prerequisites:

- An admin user must be created manually in the database. Create a collection called admin and add a document with a ‘username’ and ‘password’ field, setting these to your desired values. Ensure the database is not accessible publicly.

To run the CLI tool, also called the admin portal, use the command

python3 admin.py

within the admin-portal directory. This also requires Python dependencies that can be installed from the backend folder. Detailed instructions on how to use the admin portal are located in the admin portal README. Here we will describe a basic workflow for setting up a new user.

To start with, you will be presented with the login screen. Enter the admin credentials as requested.

```
Enter username: admin
Enter password:
```

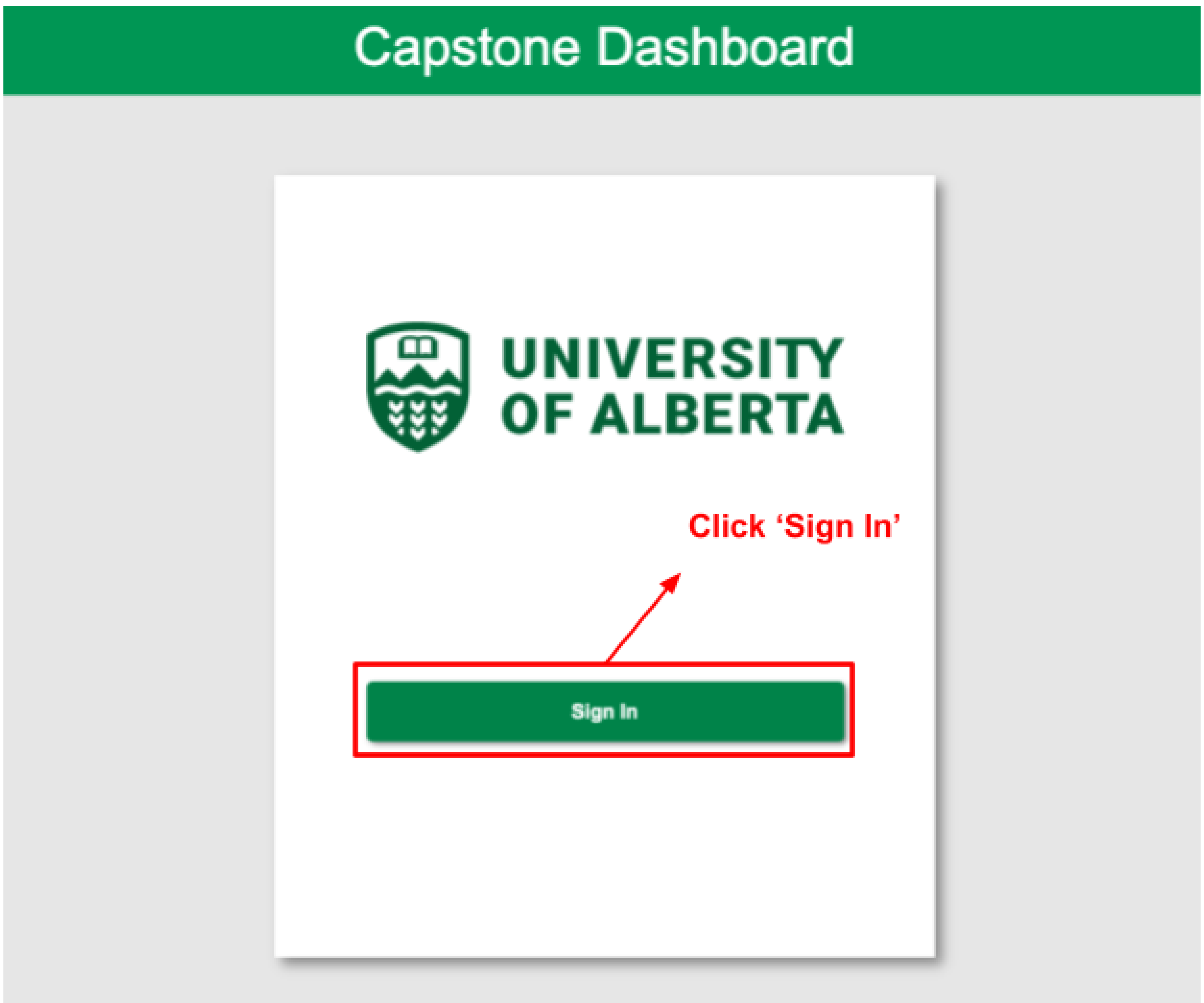
```
Login successful
1. Get user list
2. Add user
3. Delete user
4. Revoke user
5. Assign courses
6. Unassign courses
7. Authorize user
8. Exit
Enter choice:
```

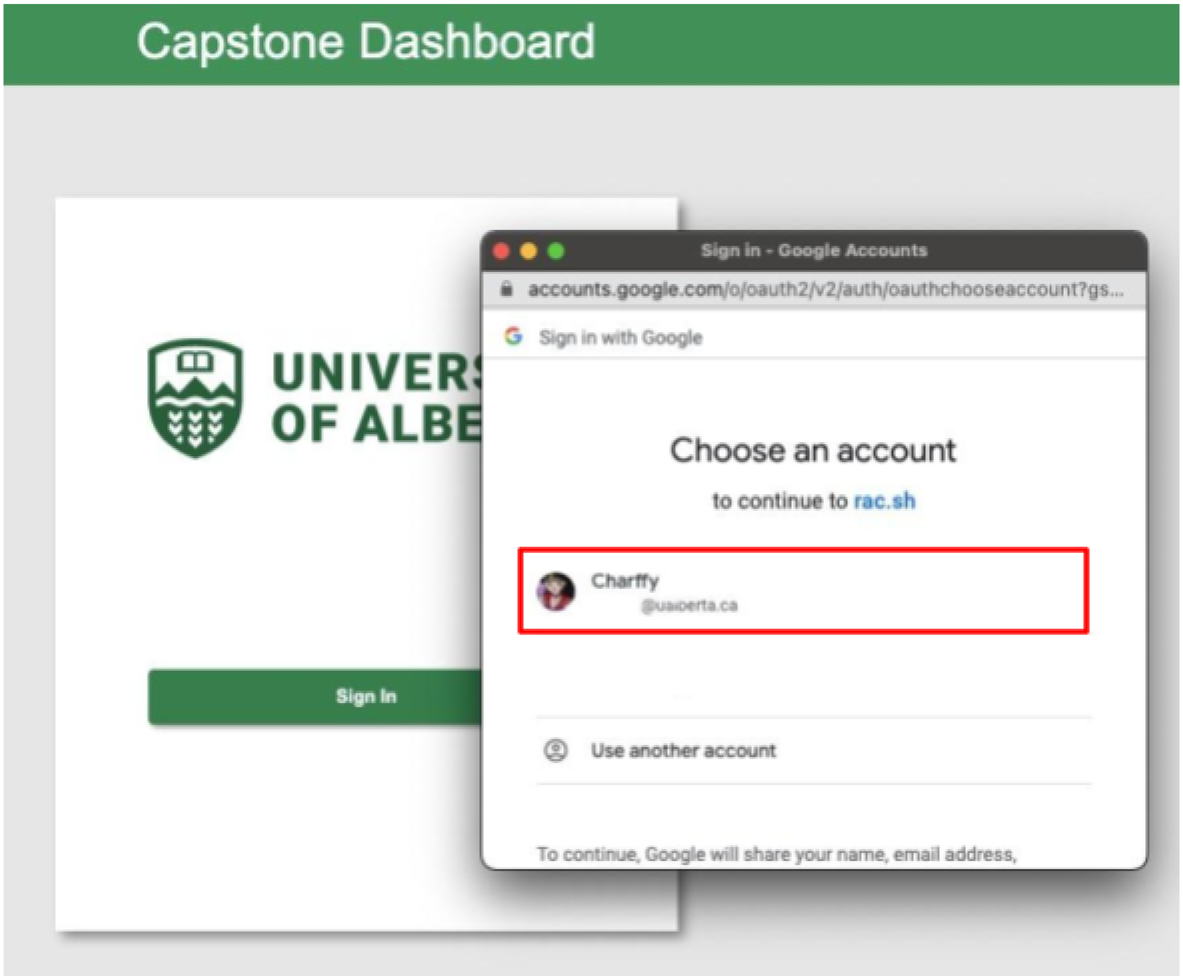
To add a new user, enter ‘2’. Then we can fill out the required information. The email field will be the email address they choose when signing into our app with Google. Assigned courses designate which courses a user can view and modify. This can be used to limit which courses a TA, for instance, can access. Lastly, authorizing the user grants them access to the application. Access can be quickly revoked through the ‘Revoke user’ command.

```
Enter choice: 2
Enter email: testuser@ualberta.ca
Enter assigned course names separted by ',' : cmput401w22, cmput401f23
Enter authorized (Y/N): y
Success! User added
```

- User Login

Use case: as an authorized user, I can click ‘Sign In’ to login with my ualberta email.

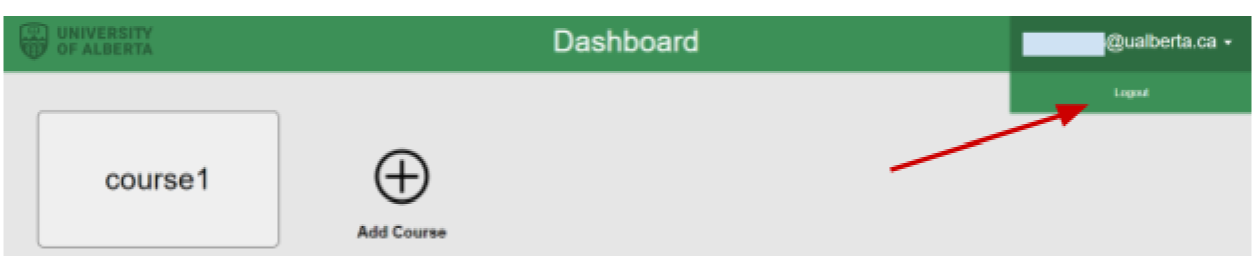




- User Logout

Use case: As a user, I want to log out of my current login session once I am done using the app.

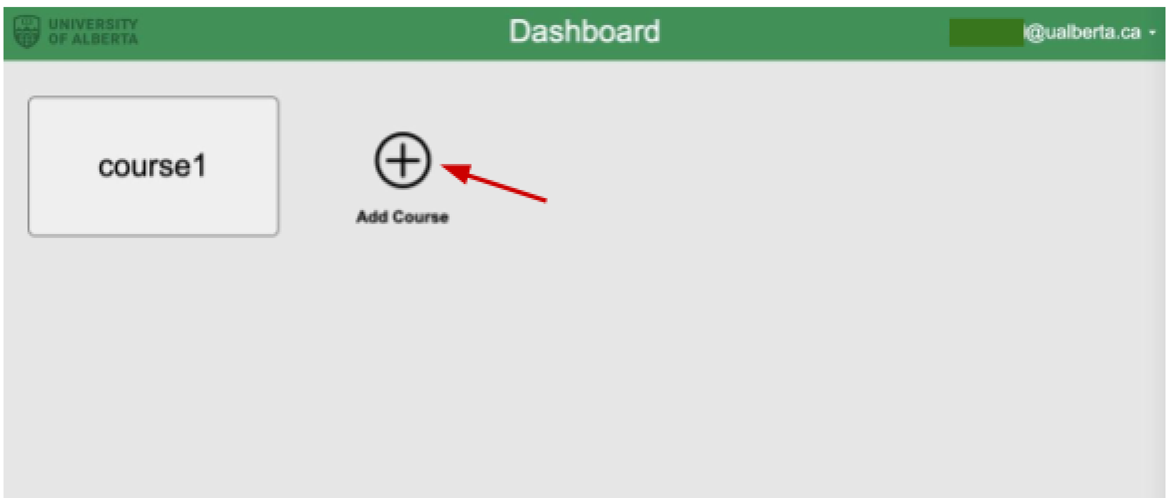
To logout, choose the ‘Logout’ option in the dropdown in the top right corner. You will then be logged out and no longer be able to access any pages of the application except for the login page.



- Manage Courses
  - Create a Course

Use case: As an authorized user, I want to create and manage a course.

Once you login successfully, you will see the main dashboard page. It displays all the courses you are granted access to (eg. course1). Access can be granted and revoked by an admin using the admin portal. To add a new course, click the 'Add Course' button.



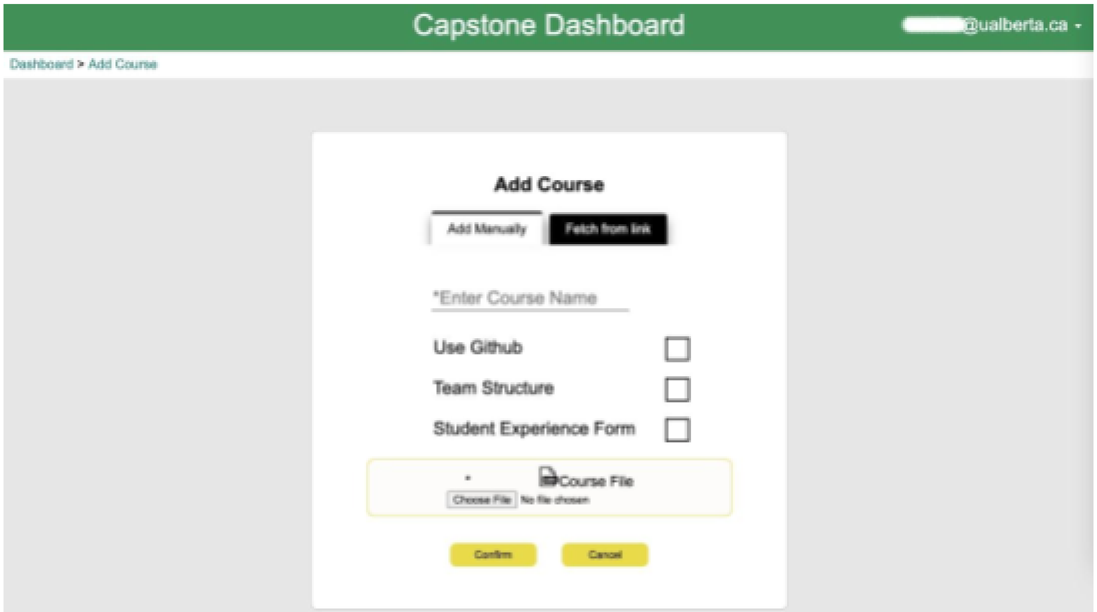
Now we are presented with certain fields to fill out. Currently, only the 'Add Manually' tab is supported, 'Fetch from link' is for future expansion.

It is required to enter a course name - make it descriptive and understandable! One possible format could be something like CMPUT401W22.

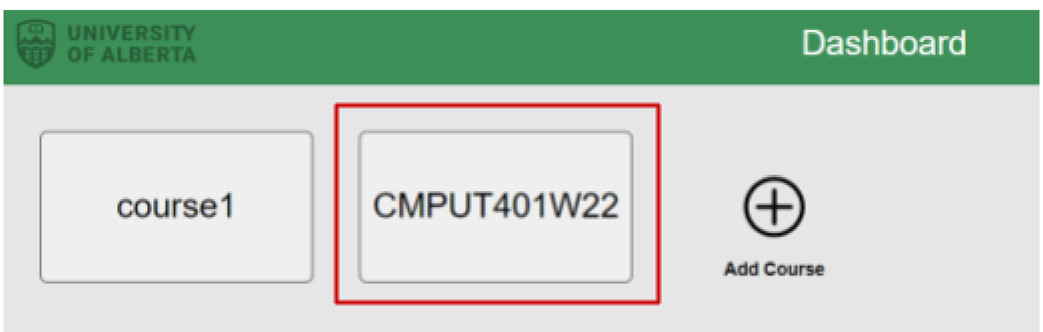
The three checkbox items are also for future expansion, checking or leaving them unchecked will have no bearing on the result of the course creation.

Lastly, and most importantly, is the roster information, which is also required. Here you will upload a CSV file containing the student roster information for the course. See the attached files for an example of the expected format (sample_roster.csv). Either click the 'Choose File' button, or drag and drop the file onto the button.

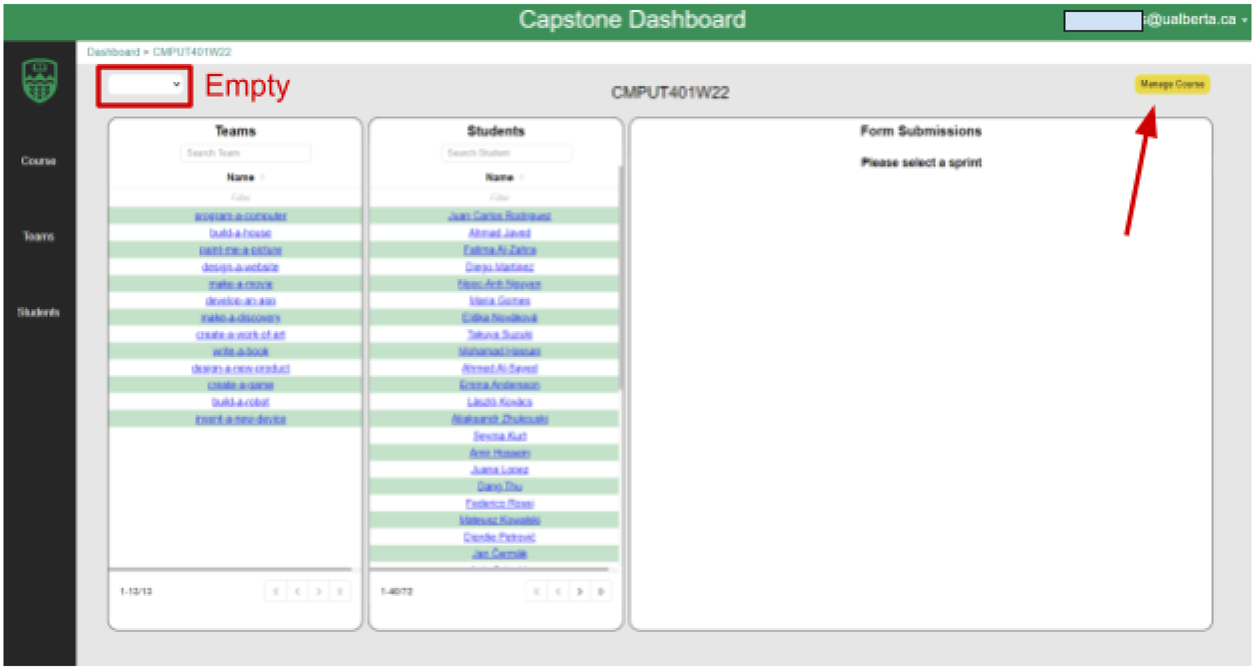
If all required data has been entered, pressing 'Confirm' will create the course.



Back on the dashboard page, you can click on the newly created course to access its contents.



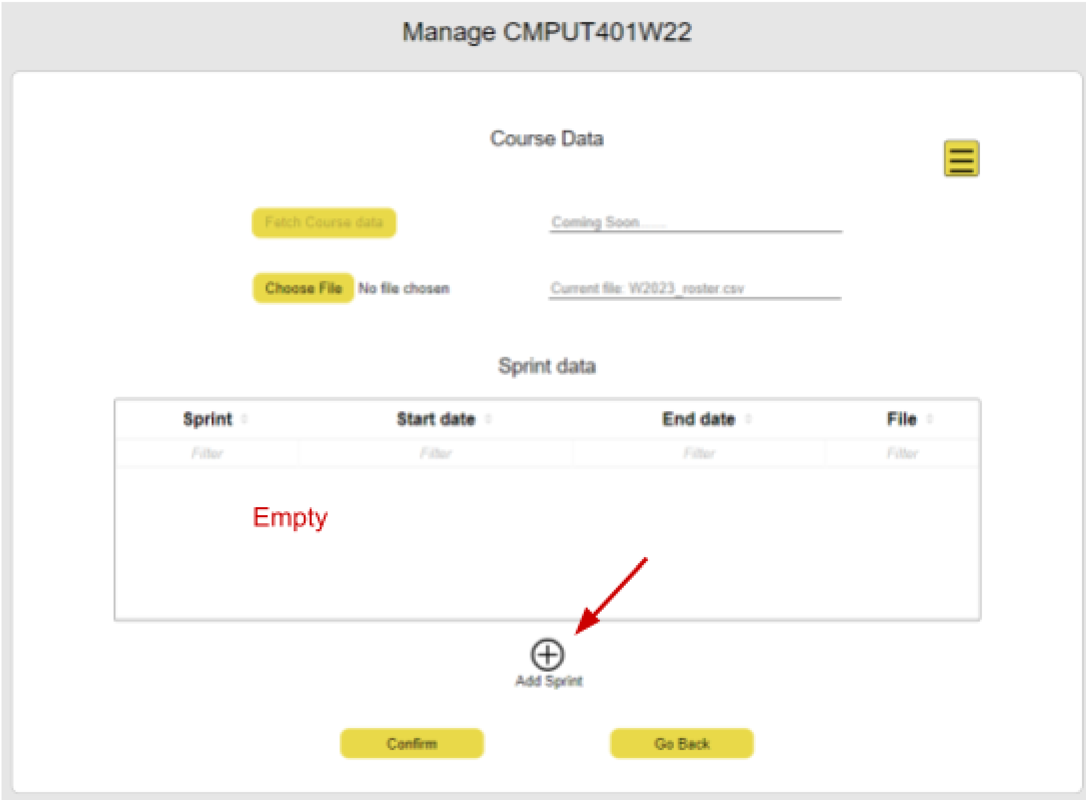
Notice that the sprint selector is empty, this is because we haven't added any sprints yet. To do so, click the 'Manage Course' button in the top right.



- Add a sprint

Use Case: As an authorized user, I want to add sprints to a course.

We are now presented with the Manage Course page. Let’s start with adding a sprint. Currently, the sprint data list is empty. Click the ‘Add Sprint’ button at the bottom to create a new one.



Here we will need to add information, in a similar fashion to creating a course. Note that all fields are required except for the 'Form Link'.

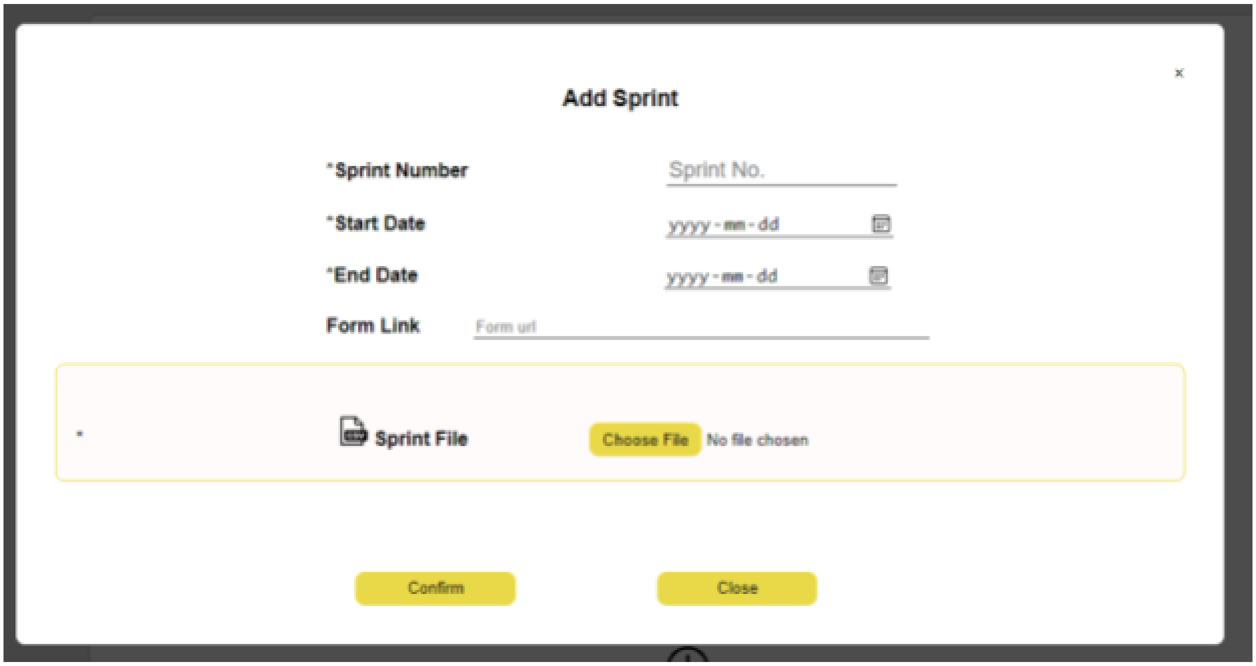
Start with the sprint number. This must be an integer number, and will be used to construct the name of the sprint. For instance, with sprint number = 1, the sprint will be called Sprint1.

Next, we need to select the start and end dates of the sprint. These will be used to group timestamped data into their corresponding sprints.

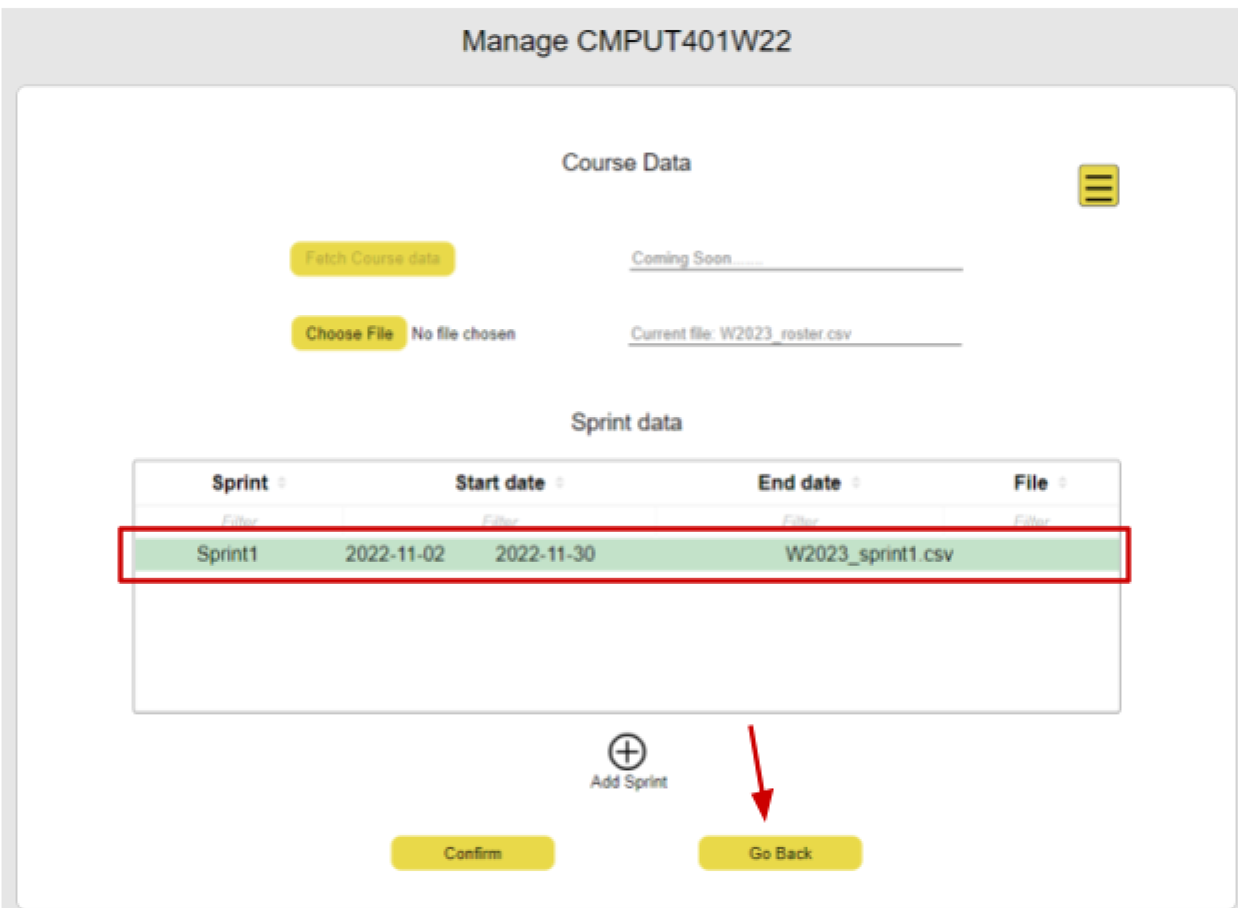
For the 'Form Link' option, an iframe URL for a Google Sheet can be provided. Typically, this form will contain something like student form submissions, and can be viewed easily from our dashboard.

Lastly, the sprint information must be uploaded. We only accept CSV files following the format specified in our sample files. See the attached files for an example of the expected format (sample_sprint.csv). Either click the 'Choose File' button, or drag and drop the file onto the button.

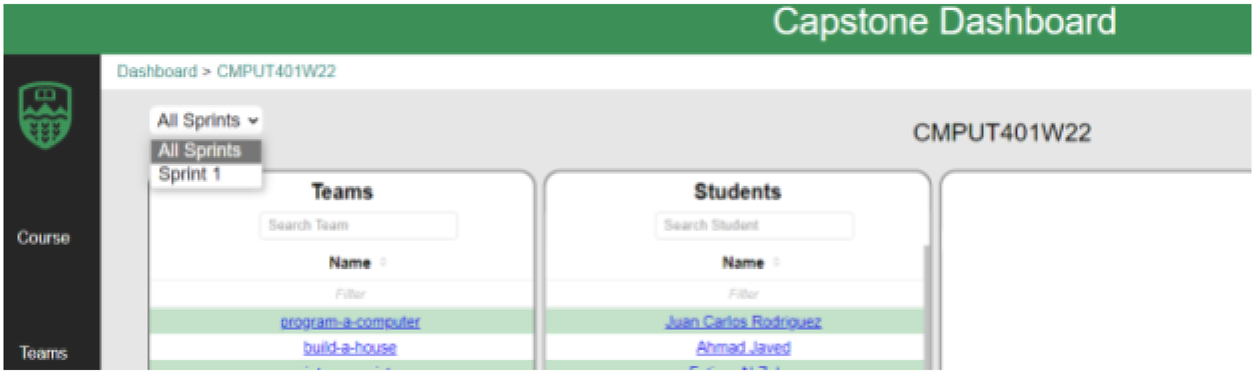
If all required fields are provided, clicking 'Confirm' will create the sprint.



After successful creation, it will be displayed in the list of sprints. To return to the course page, click the 'Go Back' button.



Notice that now the sprint selector displays options. Selecting 'Sprint 1' will display data only for that timeframe.

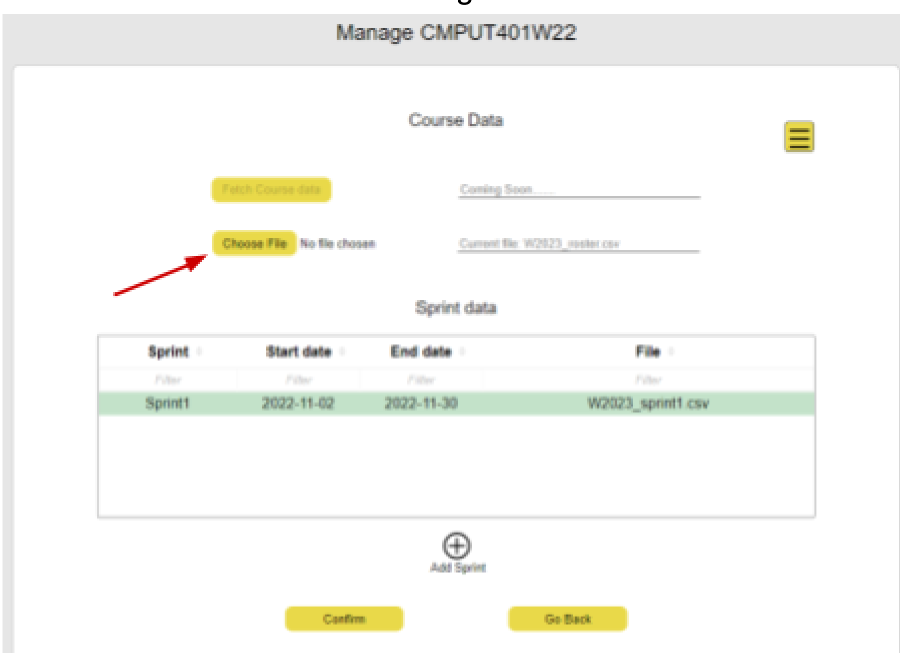


- Update a Course

Use case: As an authorized user, I want to update a course's information.

Suppose we want to update the course data. In the Manage Course page, we can change the roster file being used, by selecting a new CSV file. Ensure this conforms to the same formats mentioned when creating a course.

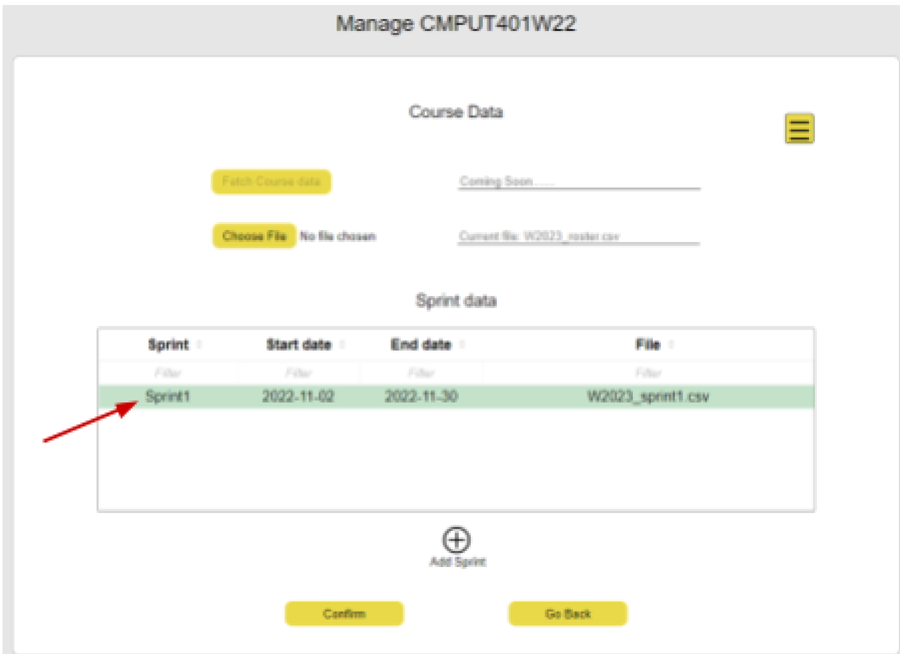
Click 'Confirm' to make the changes to the course.



○ Update a Sprint

Use case: As an authorized user, I want to update a sprint's information.

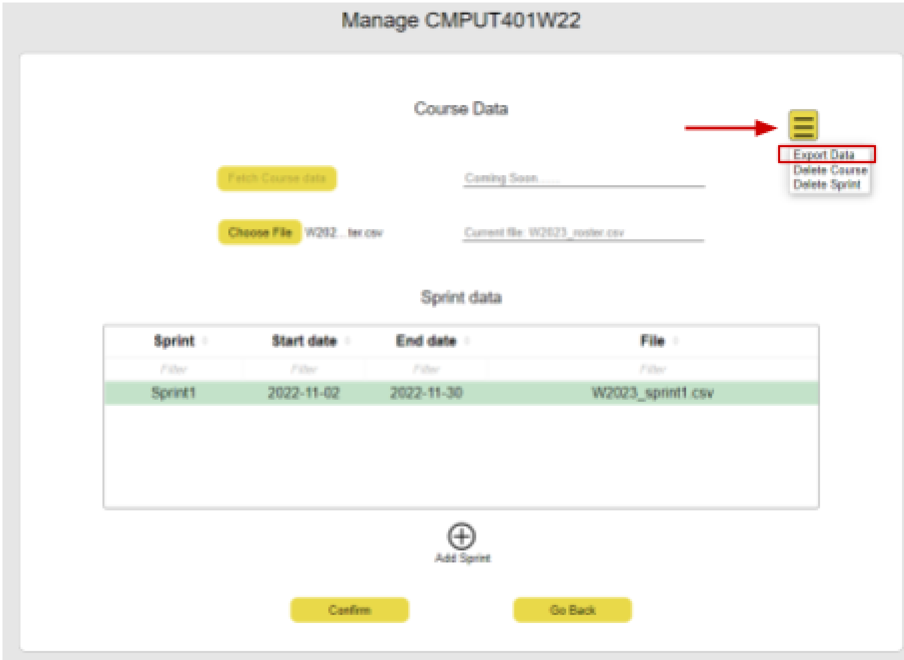
Similarly, to edit a sprint, we can click on the sprint name. Then we will be able to change the start and end date of the sprint, the sprint data file, as well as the form link to display. Note that the sprint number cannot be changed. Additionally, when updating a sprint, all fields must be provided, even if they are not being changed.



○ Export a Course

Use case: As an authorized user, I want to export a course's information.

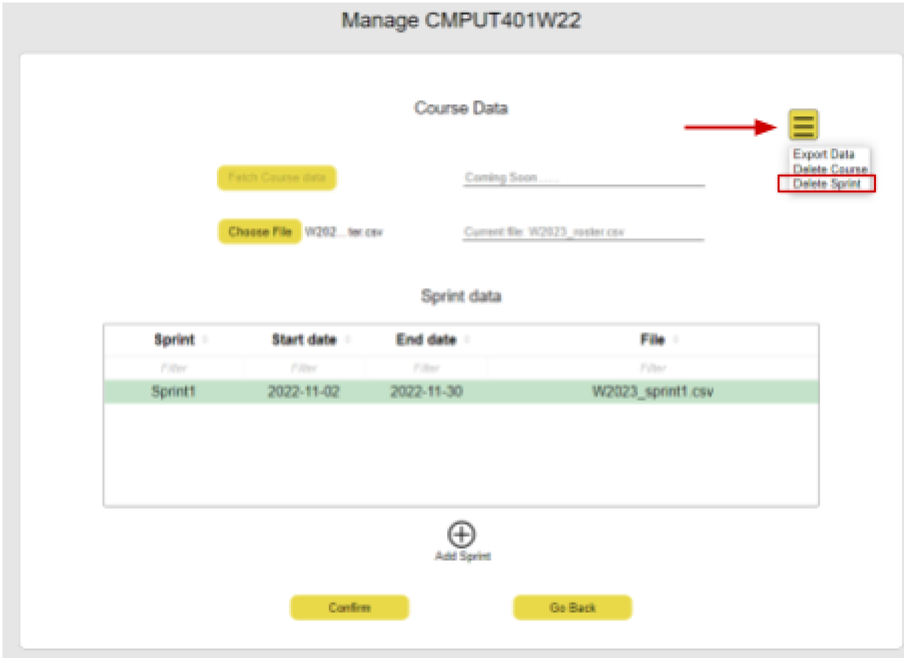
If you require the roster data currently being used for the course, there is an export data feature that will allow you to download an Excel file containing all the course information. The format will be similar to the input files for the course and sprints, except the workbook will contain a separate sheet for the course and each sprint.



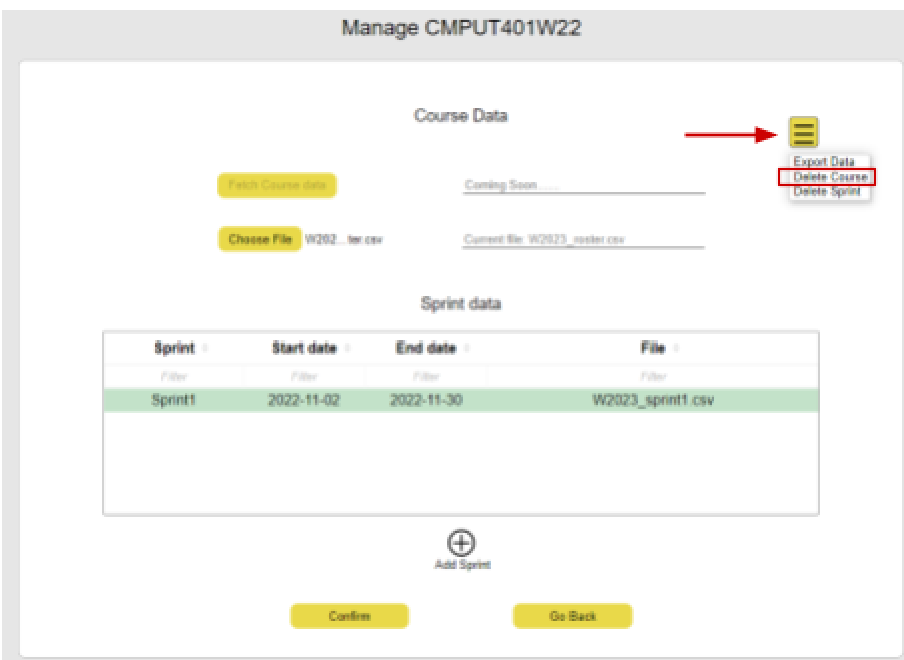
- Delete a Sprint or Course

Use case: As an authorized user, I want to delete a specific sprint or the entire course.

Lastly, in case there were any issues with creating a course or sprint, they can be deleted from the same Manage Course page. From the dropdown menu, select 'Delete Sprint' to delete a specific sprint. You will be prompted to enter the sprint number - this is the number you entered when creating the sprint (ex. Sprint1 -> 1).



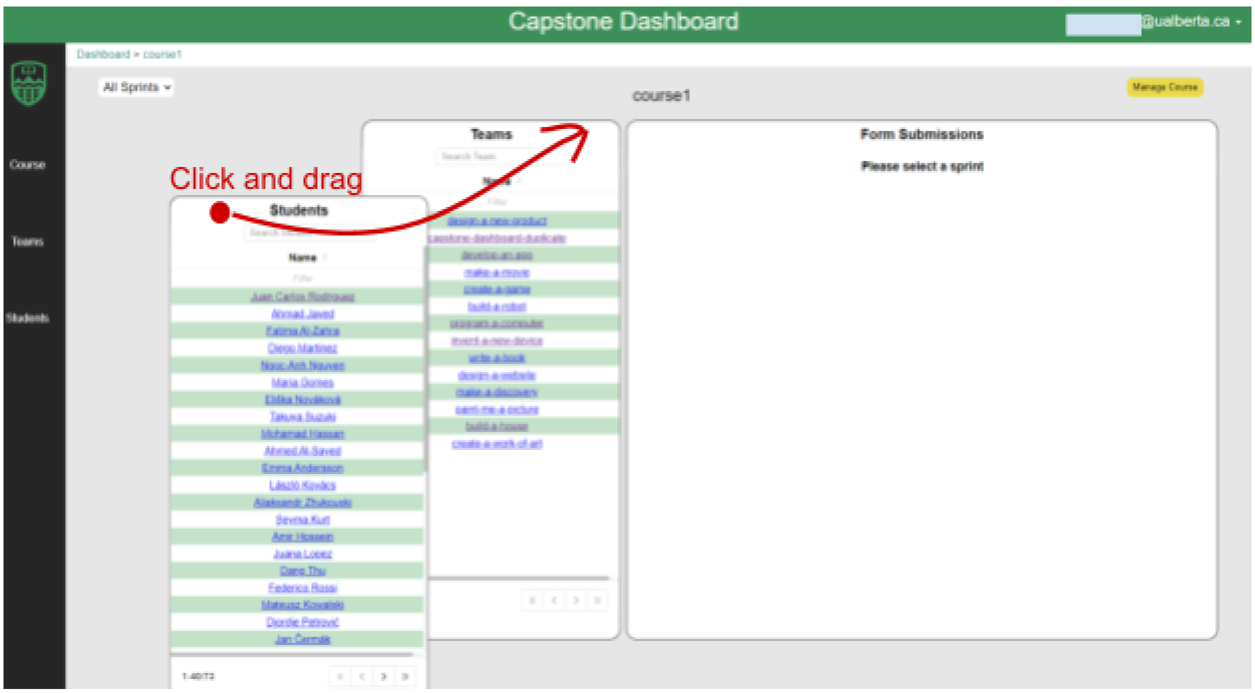
To delete the entire course, follow a similar process, but instead of specifying a sprint number, simply confirm that you are certain you want to delete the course.



- ## Adjustable placement of cards

Use case: As a user, I want to easily reconfigure the layout of the dashboard.

On all information pages (course overview, teams, individual team, students, individual students), each card can be dragged by clicking on the top of the card and moving it to a different location. The rest of the tiles will automatically rearrange themselves.

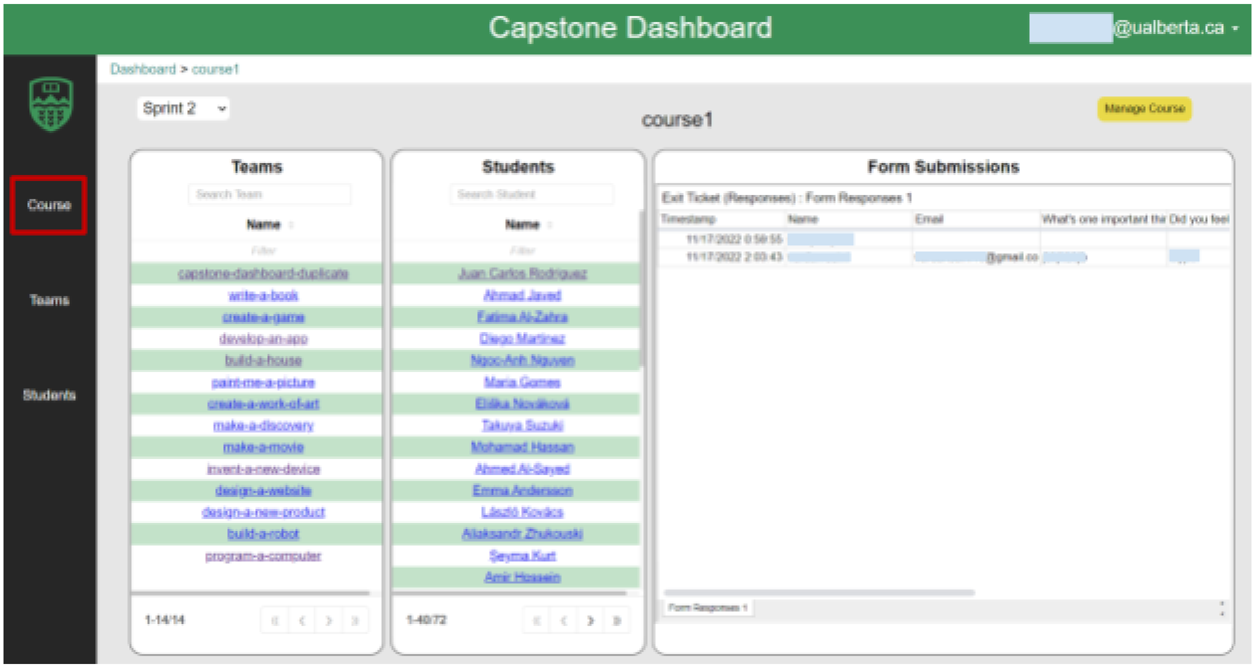


- ## Course Overview

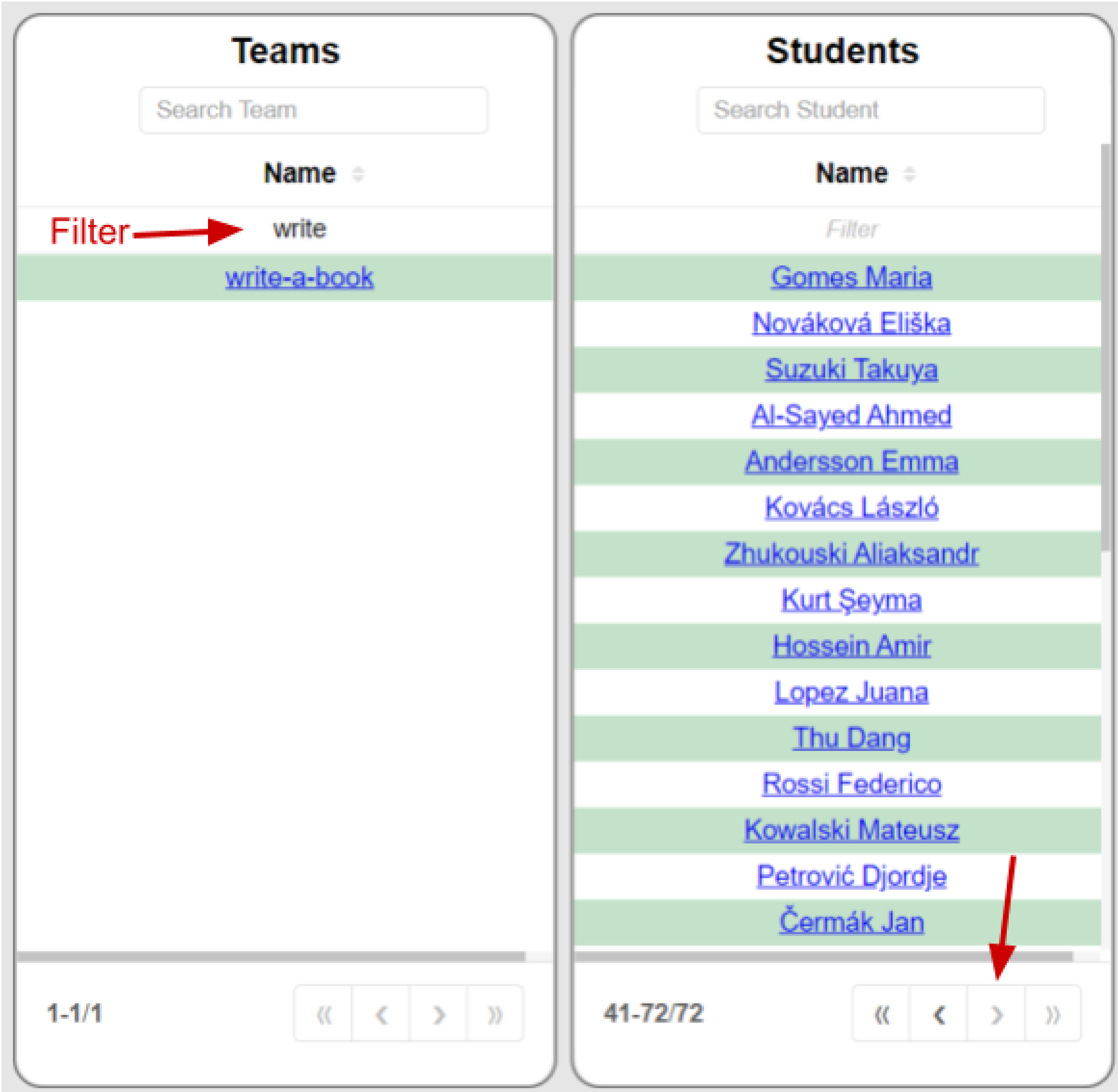
Use case: As a user, I want to get an overview of all teams and students of a course.

Clicking on the ‘Course’ button on the left navbar will take you to the course page, where you can view a list of all teams and all students. Clicking on one of the entries will take you to the corresponding information page.

Additionally, if a sprint is selected, form submissions for the current sprint will be displayed in the panel on the right. These are taken from the form URL provided when creating a sprint.

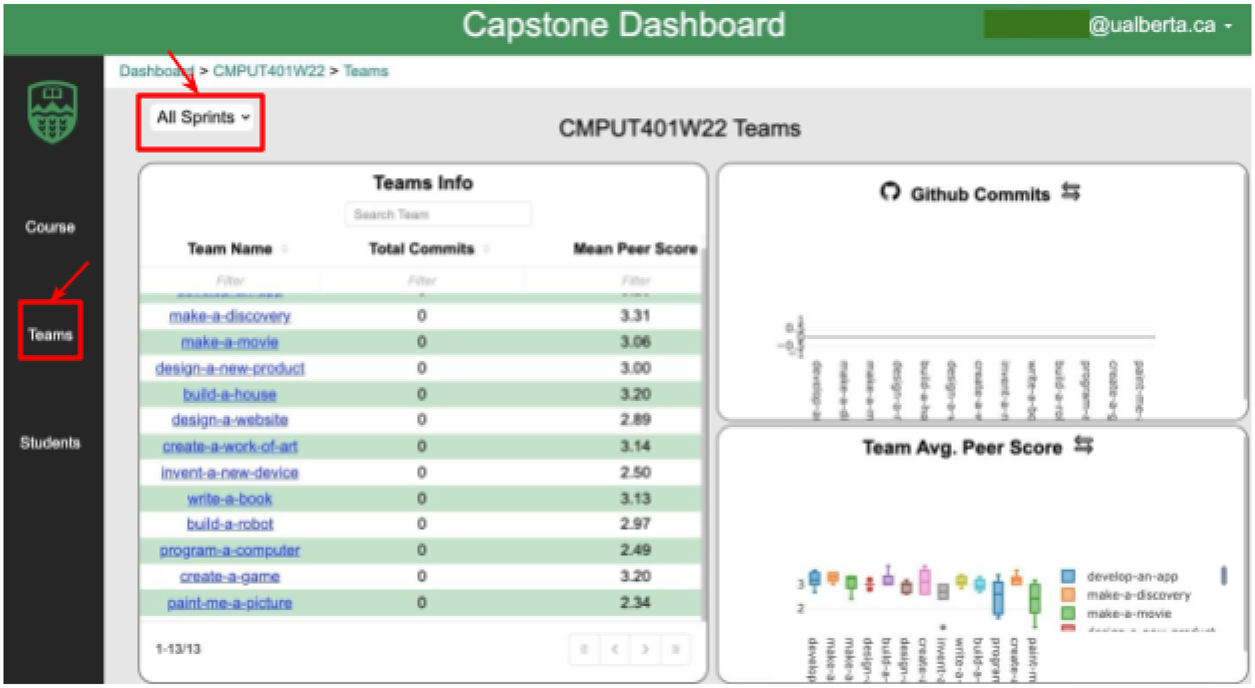


The teams and students tables are filterable by name. Also note that the table may have multiple pages. Click the arrow button at the bottom to visit the next page.



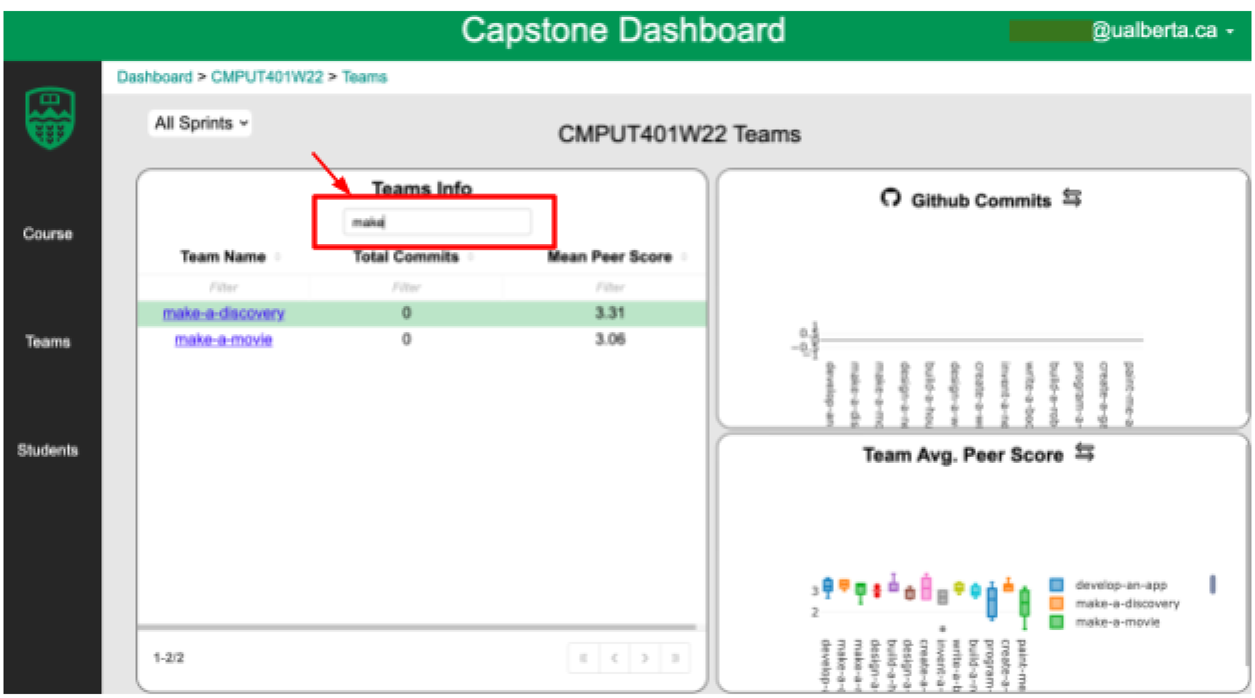
- Team Analytics
  - For All Teams

    Use case: as an authorized user, I can click 'Teams' in the navigation bar and select a sprint to view the analytics of all teams in the course.



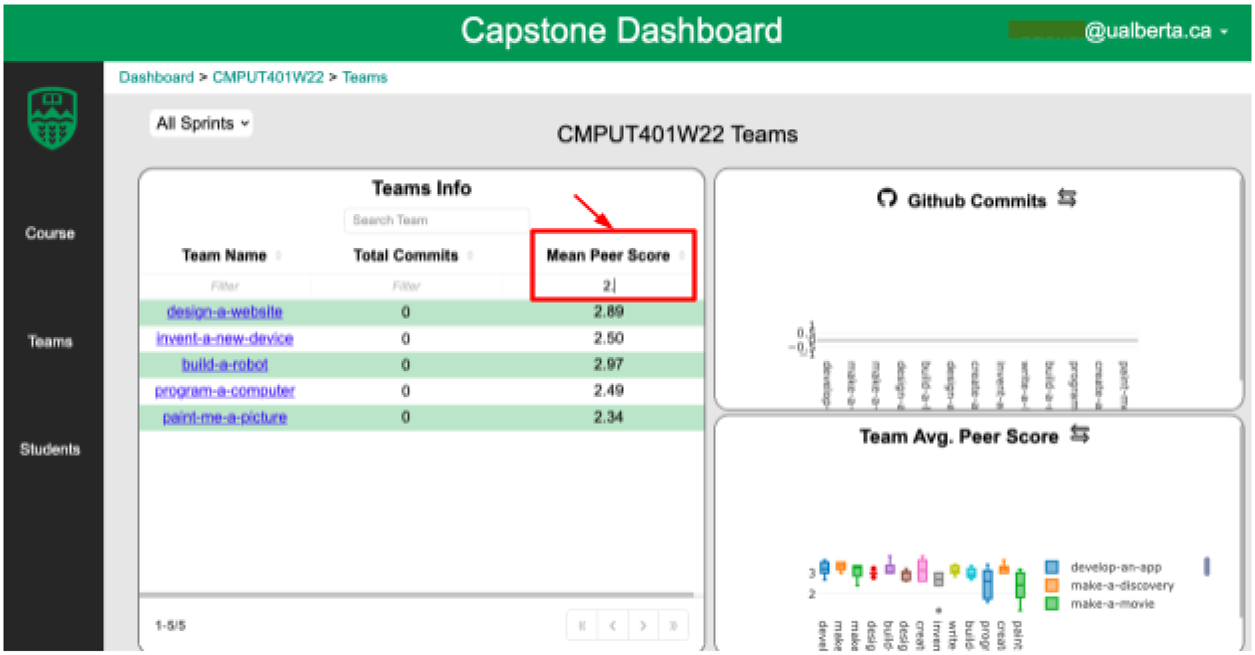
- Search Teams

  Use case: as an authorized user, I can enter keywords in the searching box to search teams in the course.



- Filter Teams

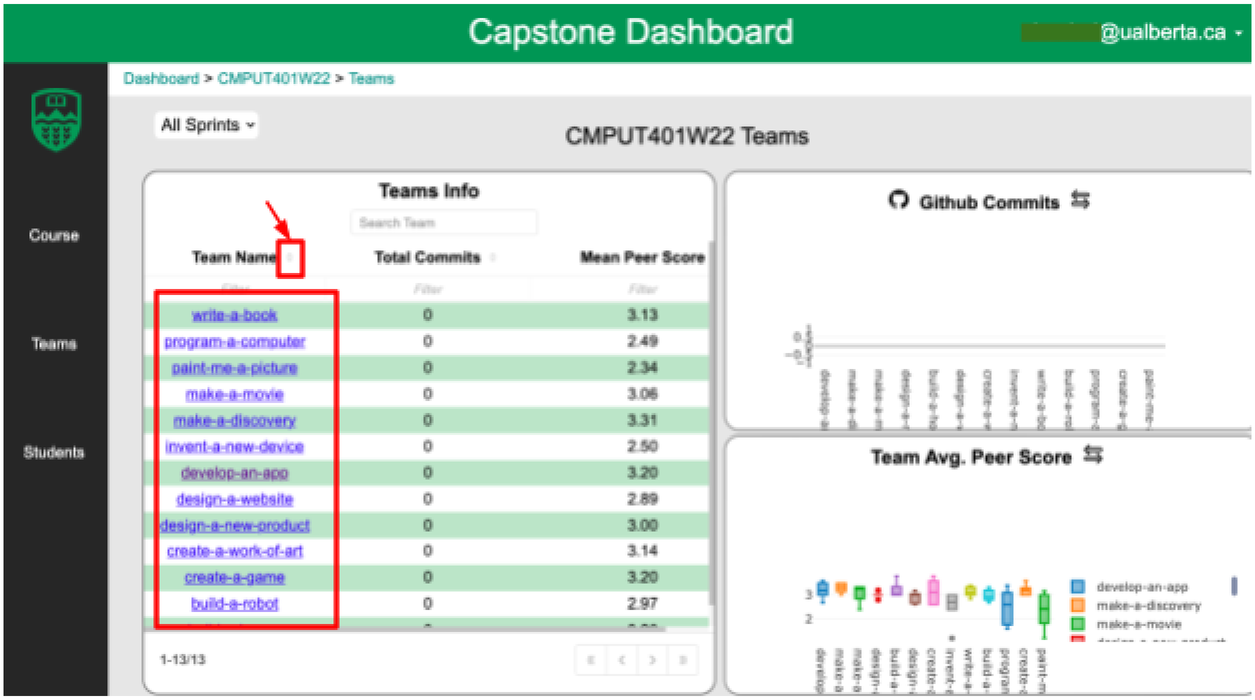
  Use case: as an authorized user, I can enter keywords in the Filter box to filter teams with their Team Name, Total Commits or Mean Peer Score.
  Eg. Filter with Mean Peer Score



- Sort Teams

  Use case: as an authorized user, I can click the arrow button beside a field name to sort teams in its increasing or decreasing alphabetical order or numerical order.

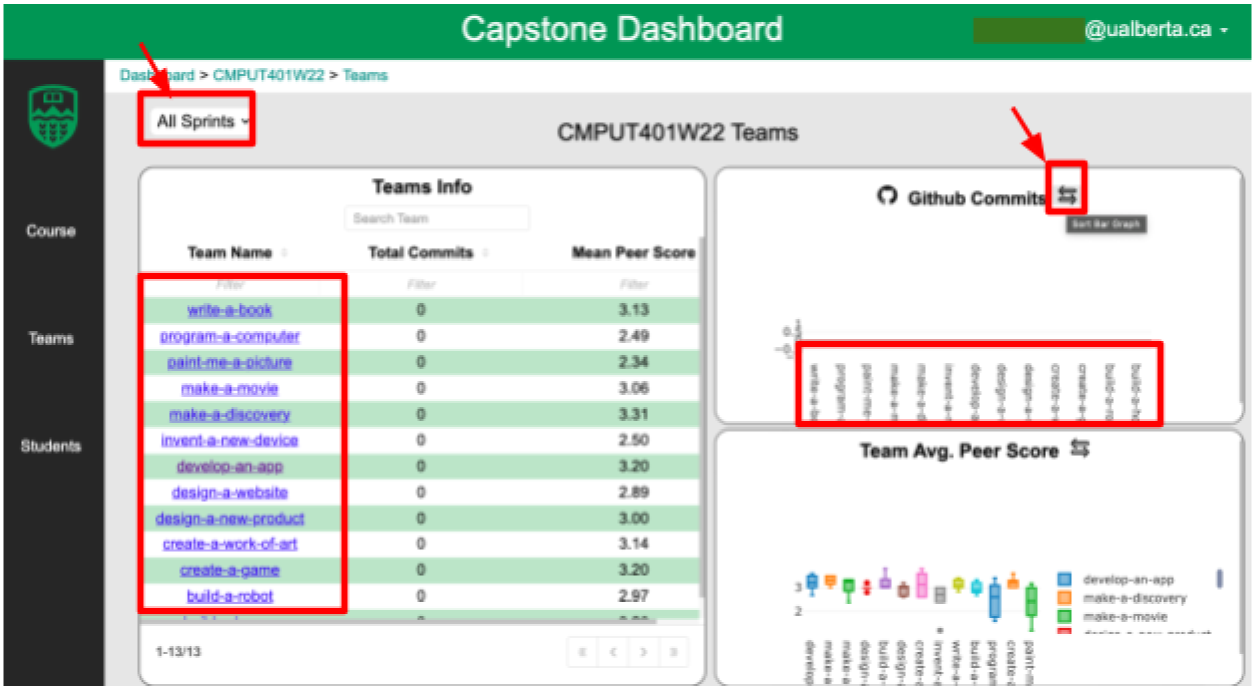
  Eg. sort by Team Name in decreasing alphabetical order



- View/Sort the Overall Teams' Github Commits

  Use case: as an authorized user, I can select a sprint and view all teams' Github commits in the bar chart.

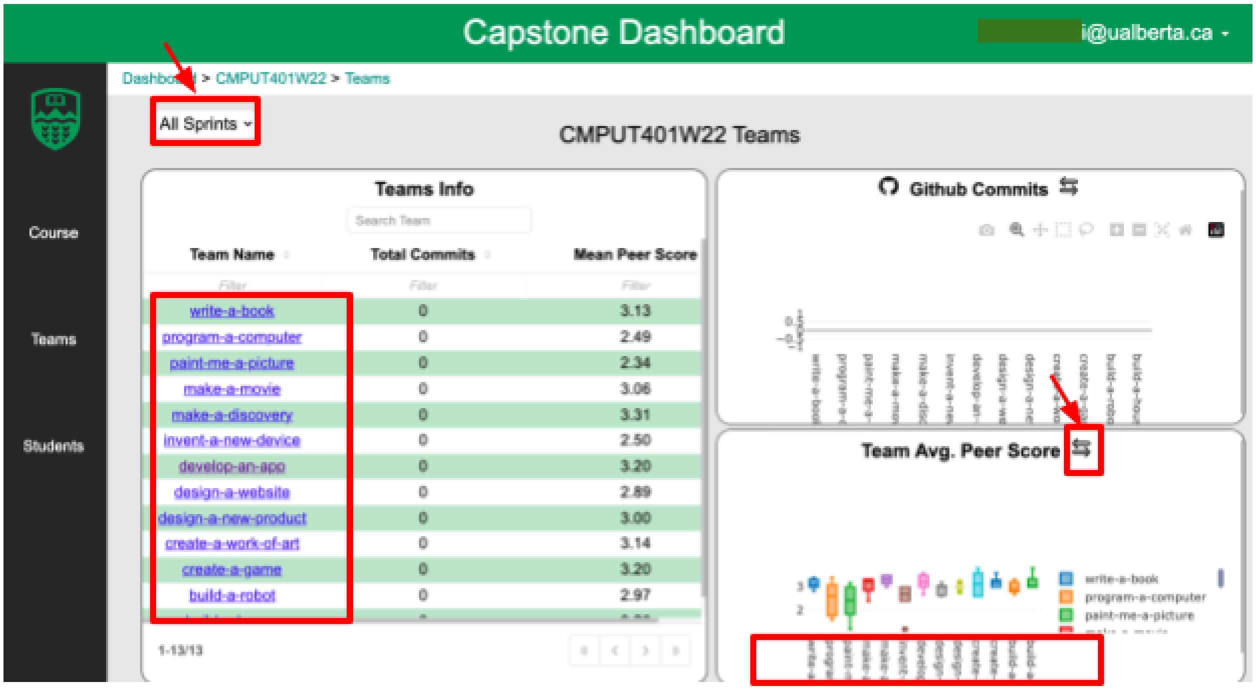
  I can also sort the teams in the chart to match their orders in the table on the left by clicking the sort button.



- View/Sort the Overall Teams' Average Peer Review Score

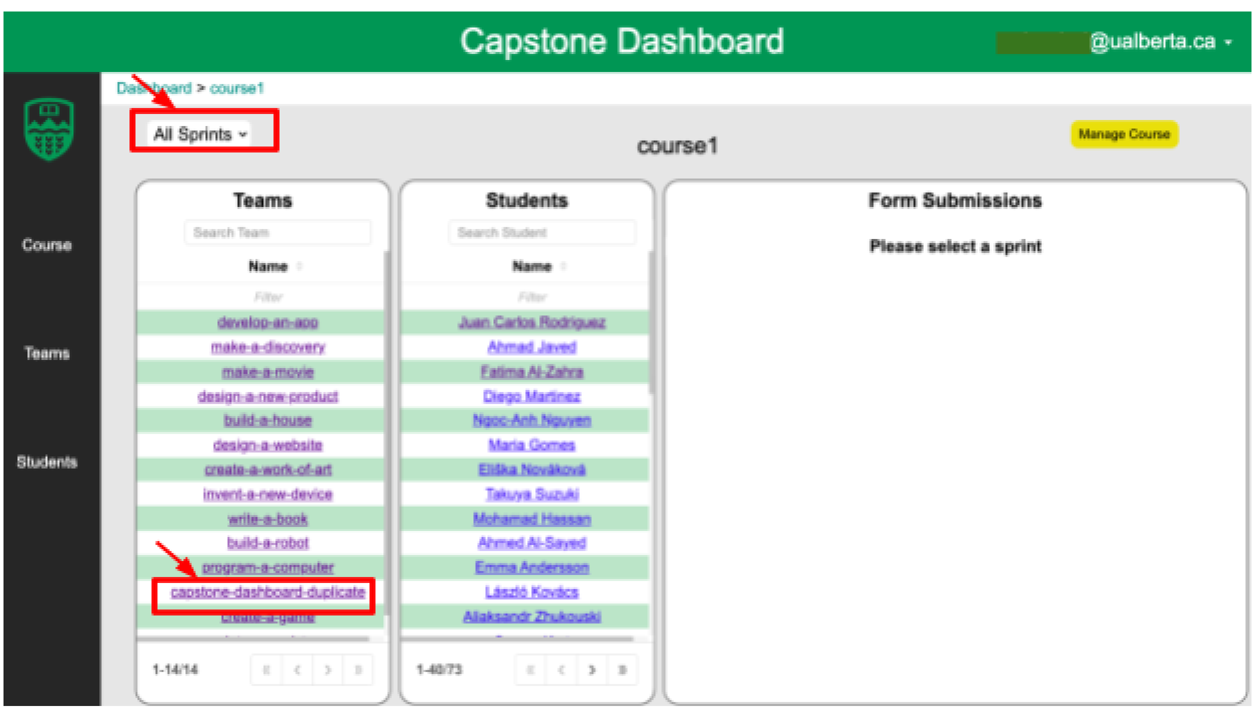
  Use case: as an authorized user, I can select a sprint and view all teams' average peer review score in the box plot.

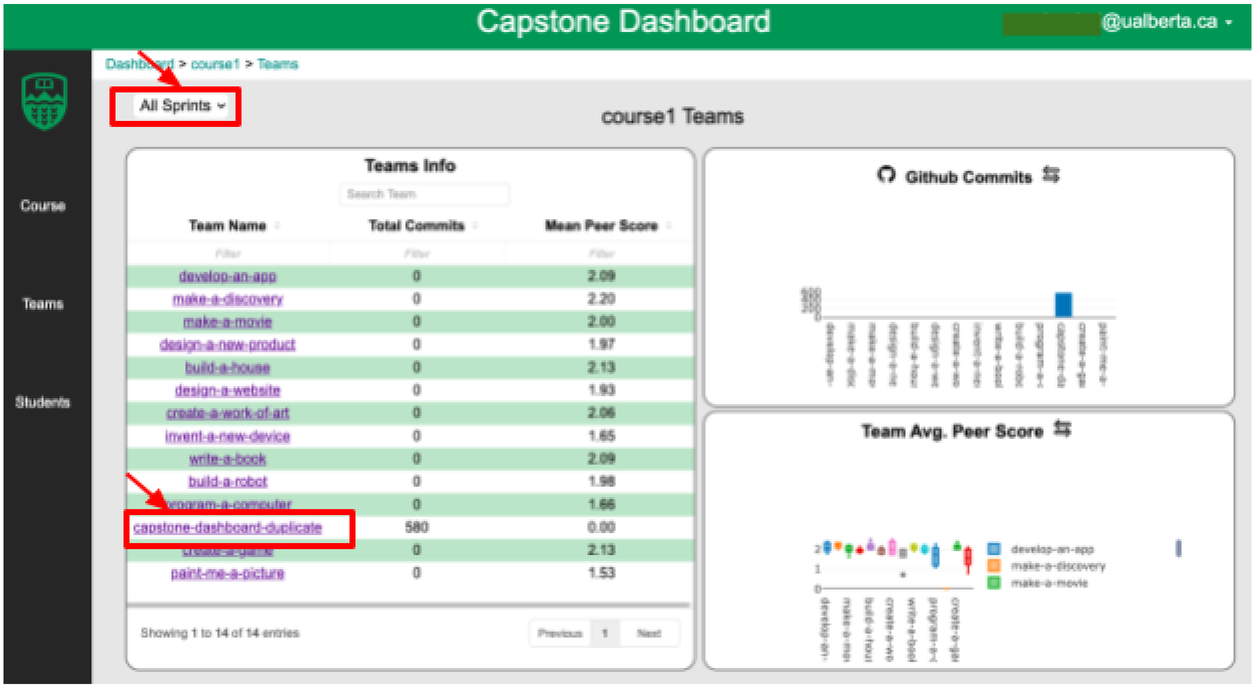
  I can also sort the teams in the plot to match their orders in the table on the left by clicking the sort button.



- For Individual Team

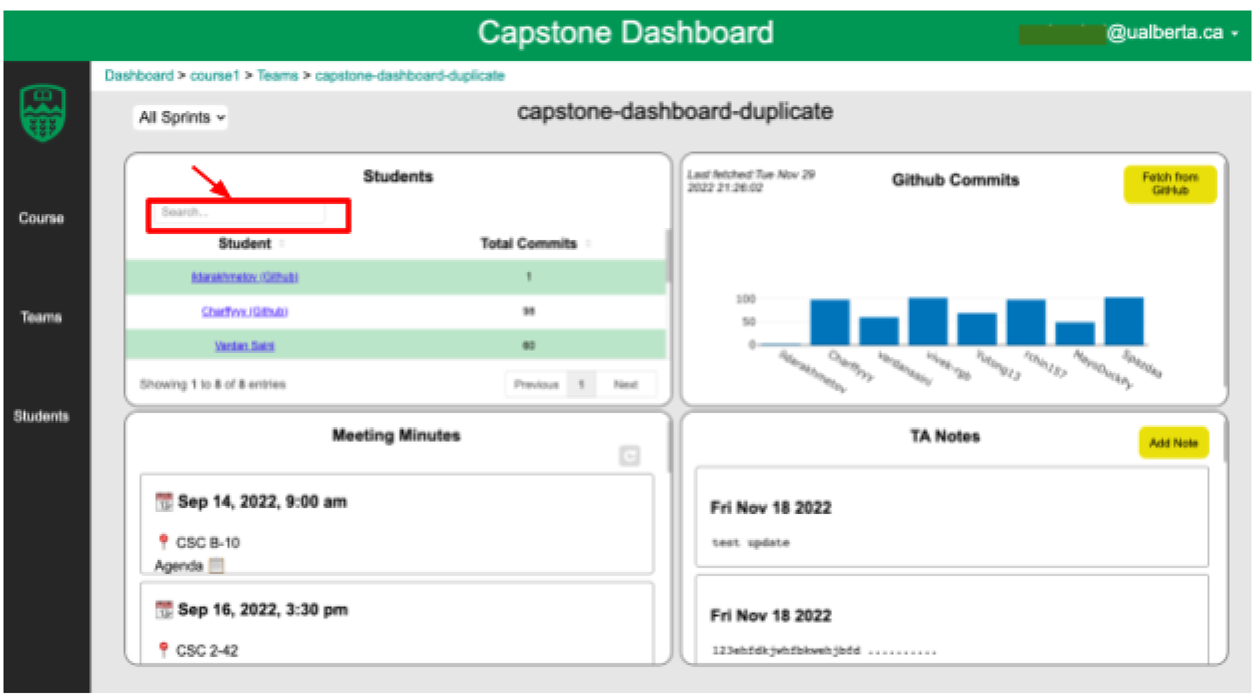
Use case: as an authorized user, I can select a sprint and then click on a team name in the list, either in the Course page or the Teams page to view the analytics of this team in the course.





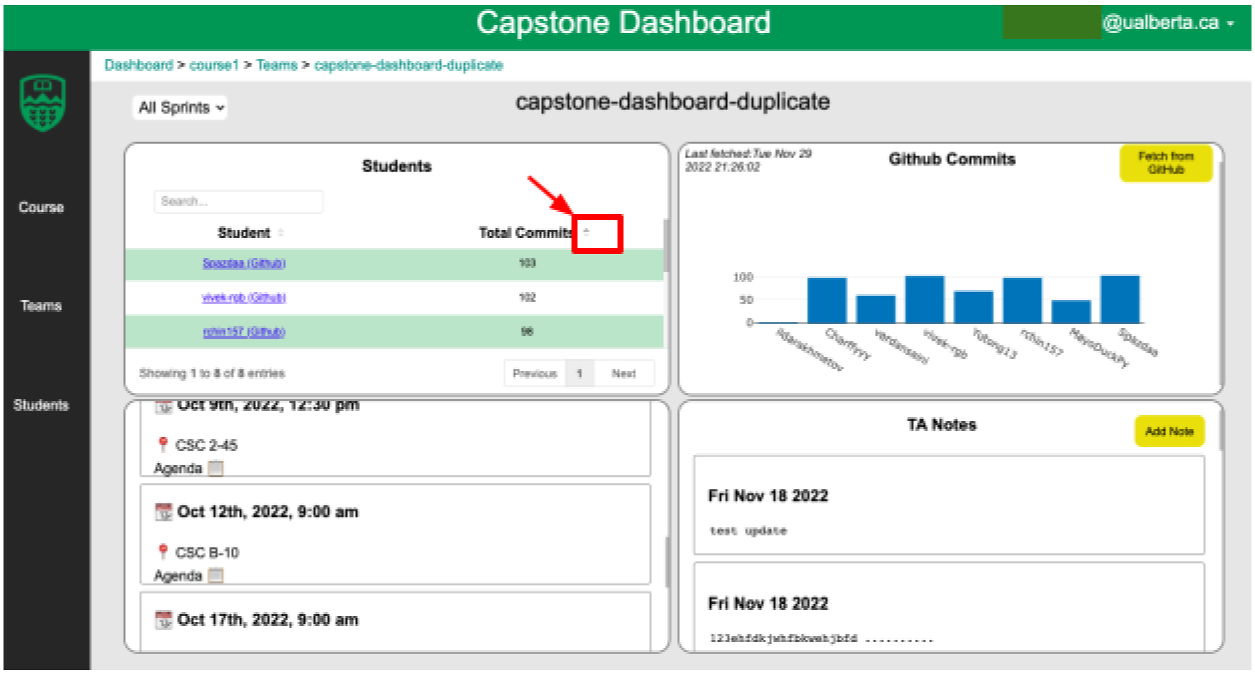
- Search Team Members

  Use case: as an authorized user, I can enter keywords in the searching box to search team members in the team.



- Sort Team Members

  Use case: as an authorized user, I can click the arrow button beside a field name to sort team members in its increasing or decreasing alphabetical order or numerical order.

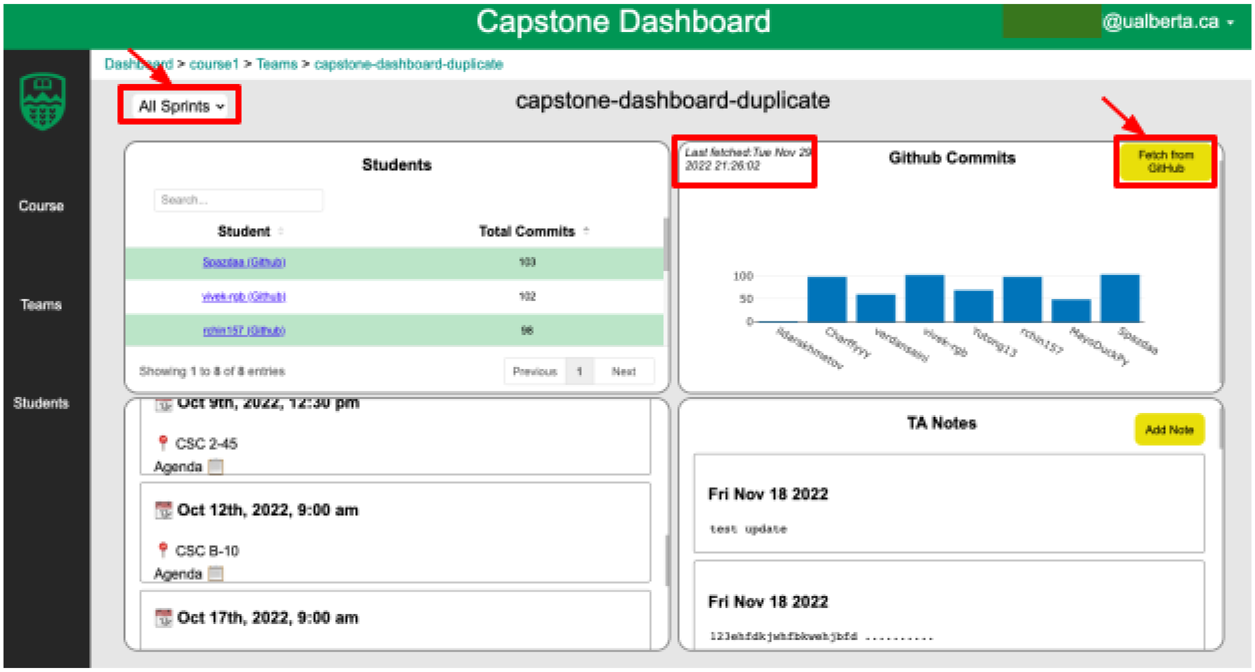


- View/Fetch the Team's Latest Commits from Github

  Use case: as an authorized user, I can select a sprint and view Github commits of all team members in the bar chart.

  I can also click on the button 'Fetch from Github' to fetch the team's latest data from its Github repository, then I can see the last fetched time is changed to the current time at the top left corner.

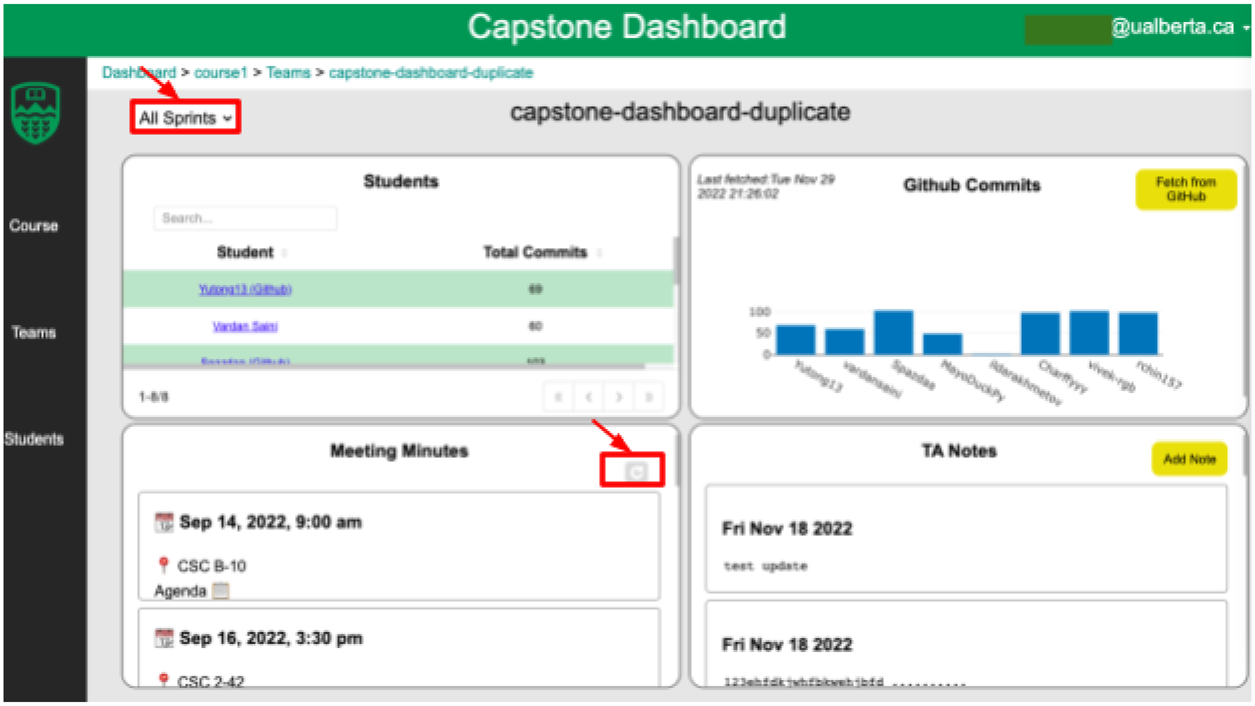
  The 'Total Commits' in the table and bar chart are also up to date.



- View the Team's Meeting Minutes

  Use case: as an authorized user, I can select a sprint and view the team's meeting minutes.

  I can also click on the refresh button to get the latest meeting minutes of the team.

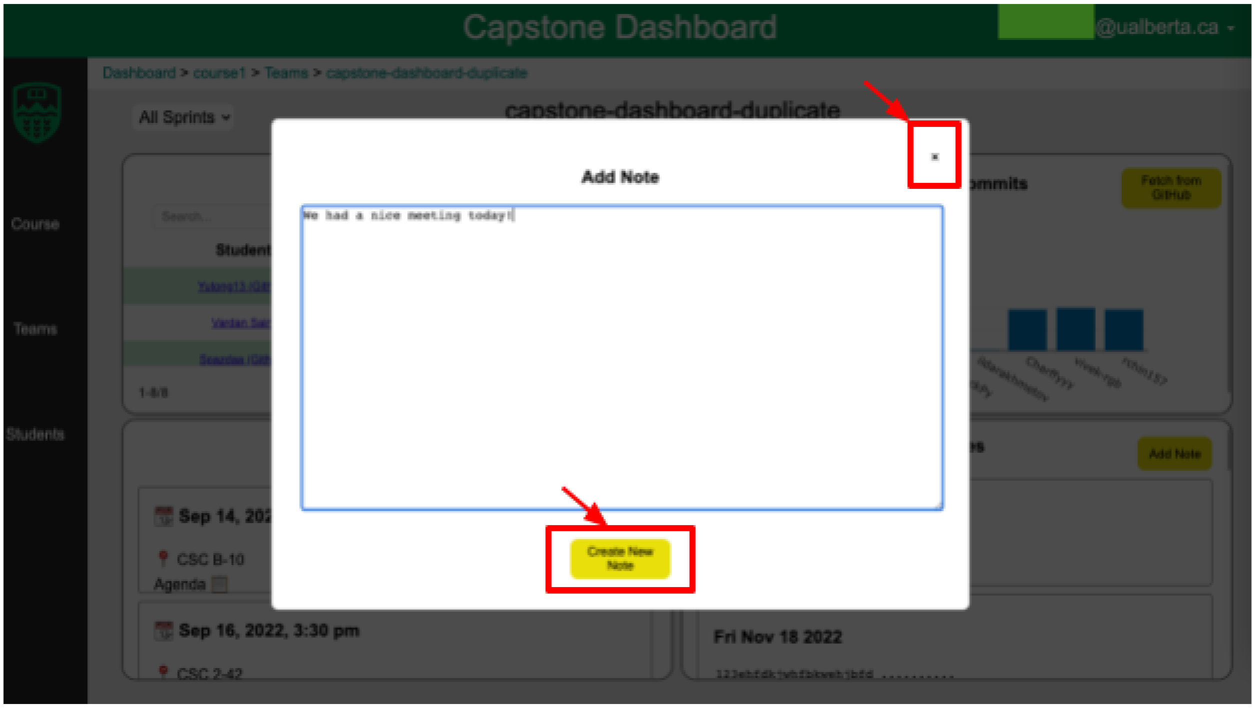


- Add TA Notes

  Use case: as an authorized user, I can select a sprint and click on the 'Add Note' button to add TA notes for the team.

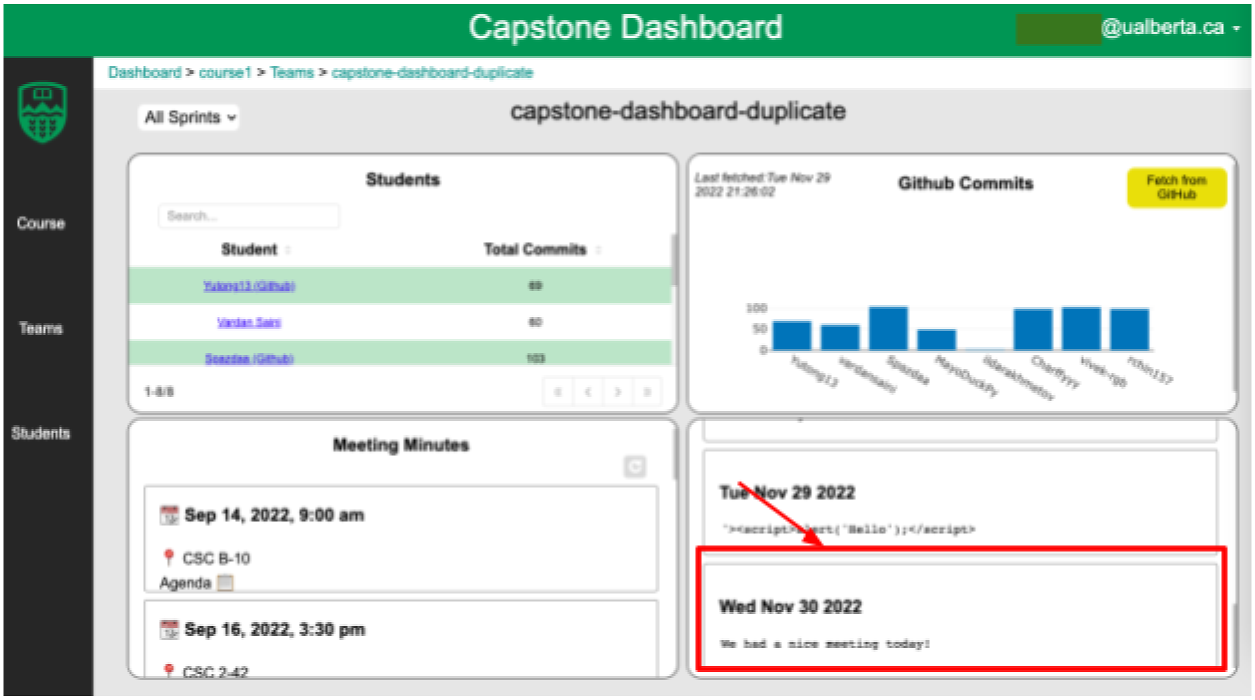
I can click 'x' to discard the note or click 'Create New Note' to add the note.

Added new notes will be displayed in the list under its created date.



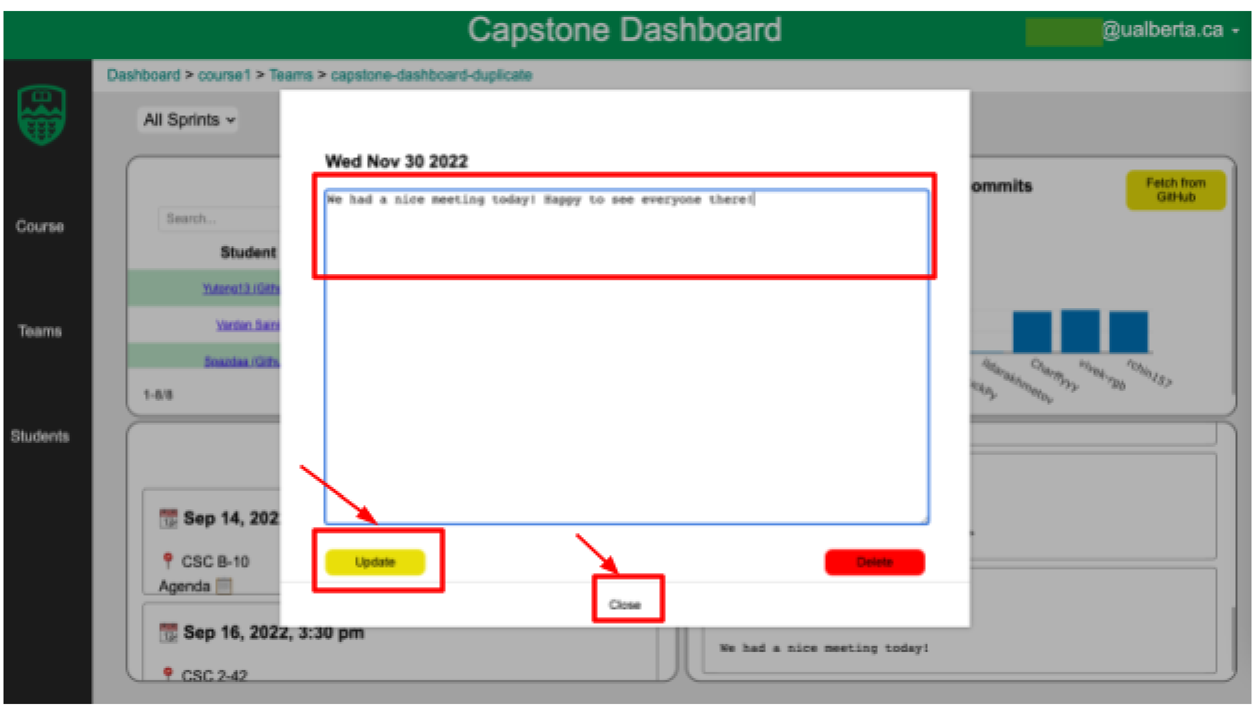
- Update TA Notes

  Use case: as an authorized user, I can select a sprint and click on a TA note in that sprint to edit it.



After editing the note, I can click 'close' to discard the changes or click 'Update' to update the note.

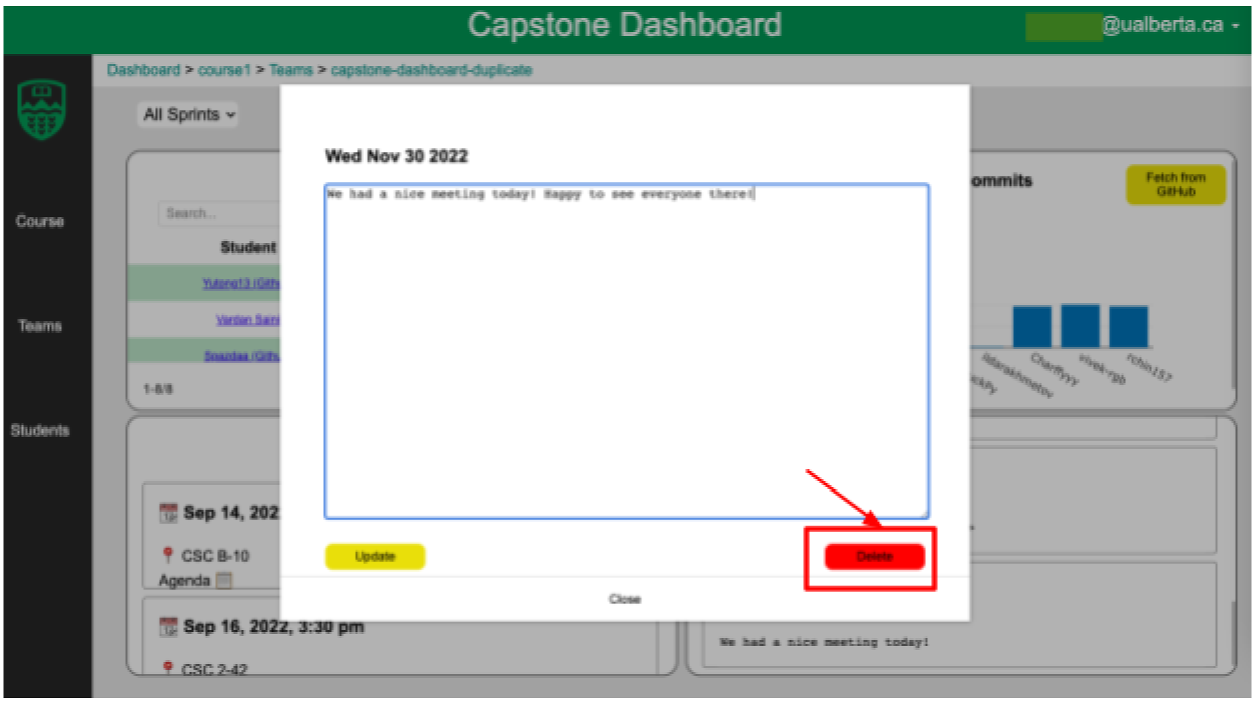
Updated notes will have their changes displayed in the list under its created date.



- Delete TA Notes

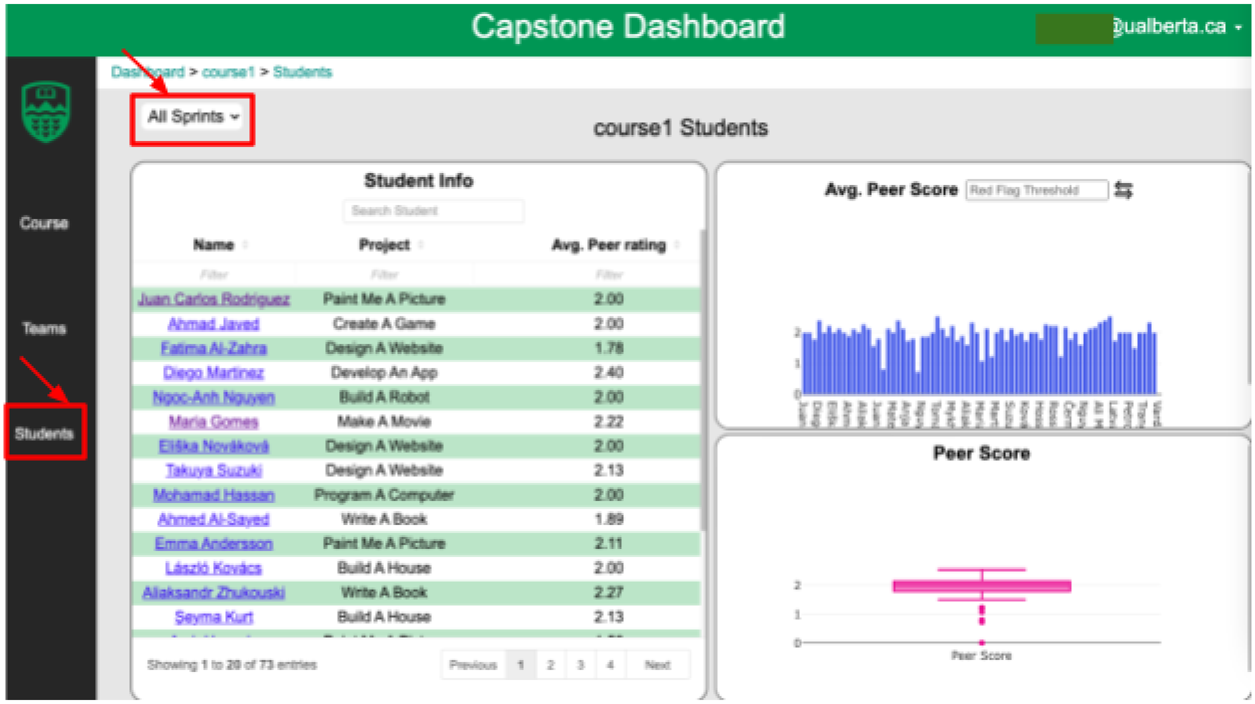
  Use case: as an authorized user, I can select a sprint and click on a TA note in that sprint to delete it.

  Deleted TA notes will be removed from the list.



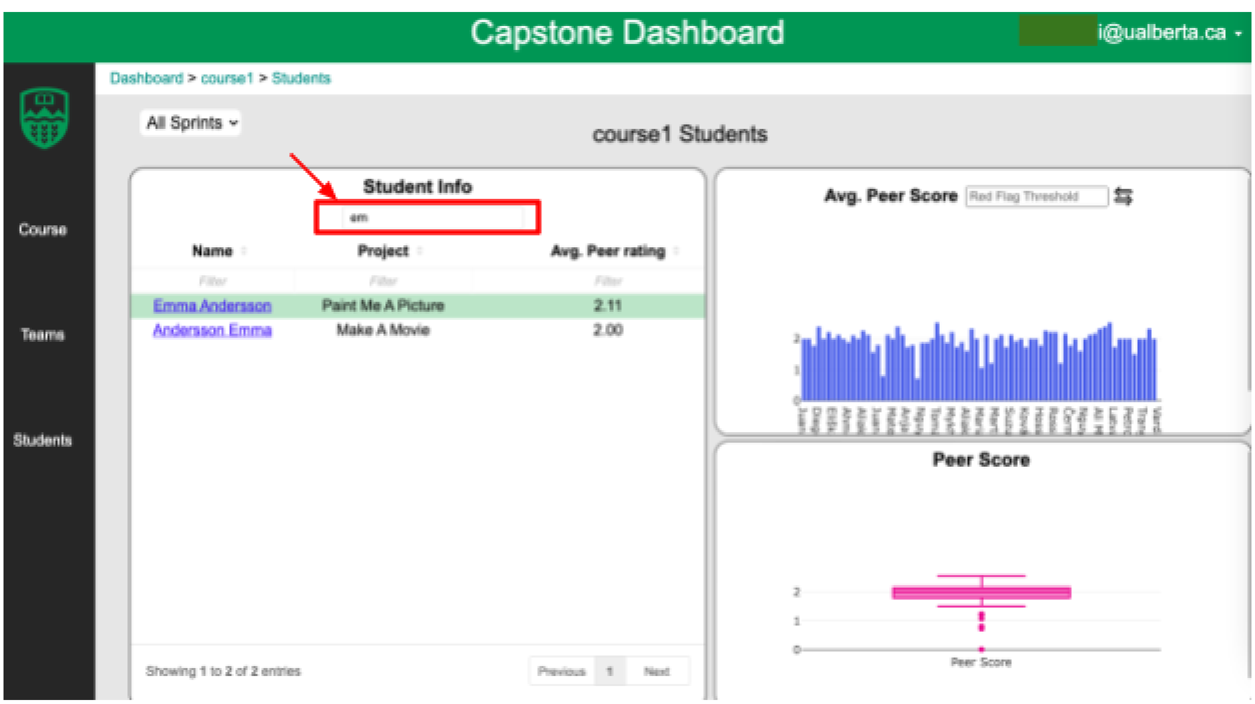
- Student Analytics
  - For All Students

    Use case: as an authorized user, I can click Students in the navigation bar and select a sprint to view the analytics of all students in the course.



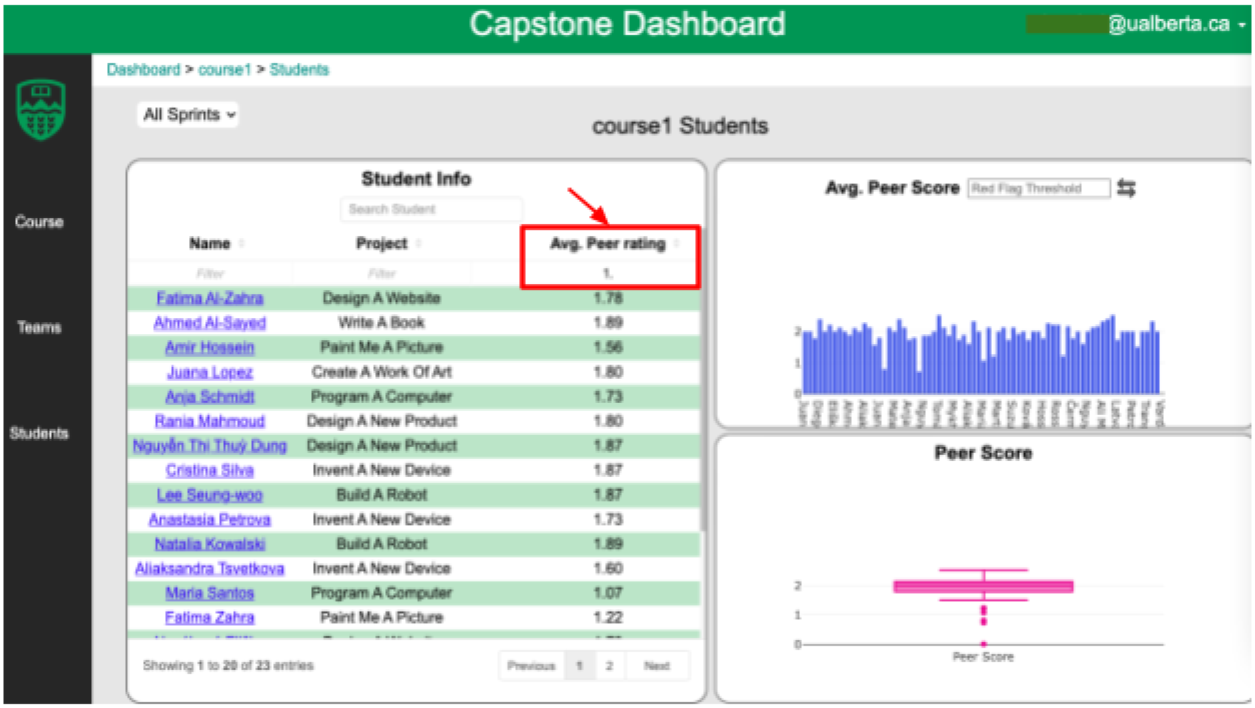
- Search Student

  Use case: as an authorized user, I can enter keywords in the searching box to search students in the course.



- Filter Student

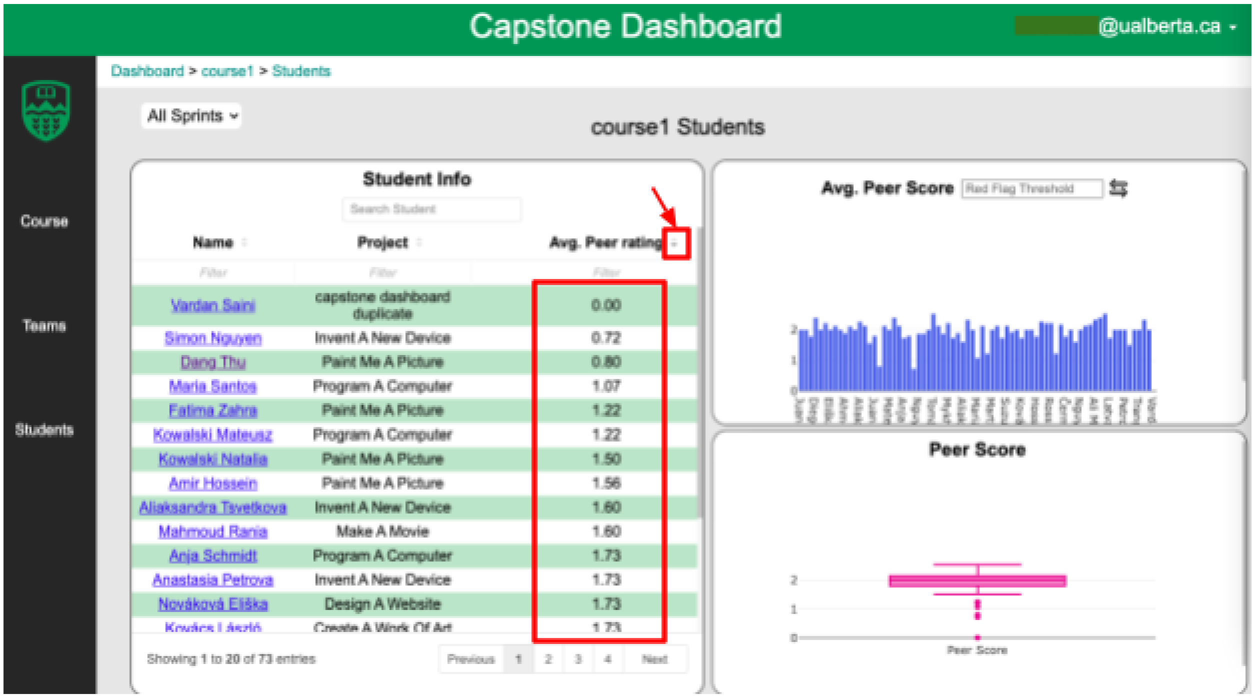
  Use case: as an authorized user, I can enter keywords in the Filter box to filter students with their Name, Project or Avg. Peer rating
  Eg. filter with Avg. Peer rating



- Sort Student

  Use case: as an authorized user, I can click the arrow button beside a field name to sort students in its increasing or decreasing alphabetical order or numerical order.

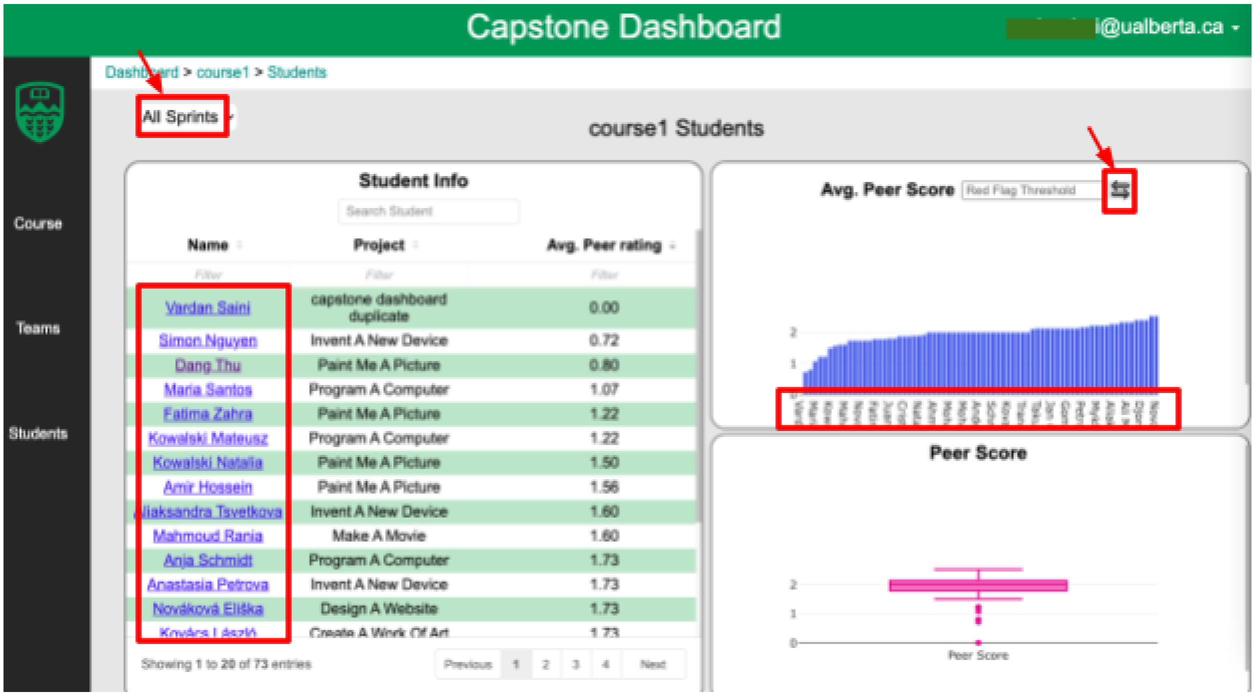
  Eg. sort by Avg. Peer rating in increasing numerical order



- View/Sort the Overall Students' Average Peer Review Score

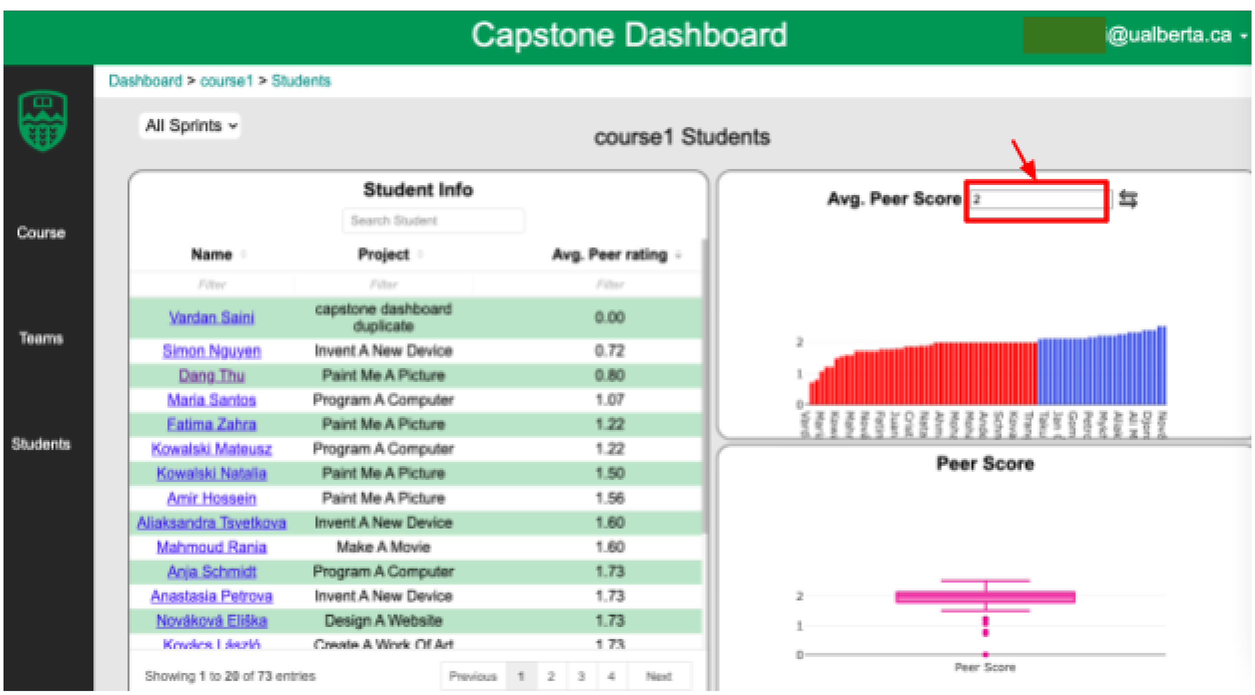
  Use case: as an authorized user, I can select a sprint and view all student's Avg. Peer score in the bar chart and box plot.

  I can also sort the students in the bar chart to match their orders in the table on the left by clicking the sort button.



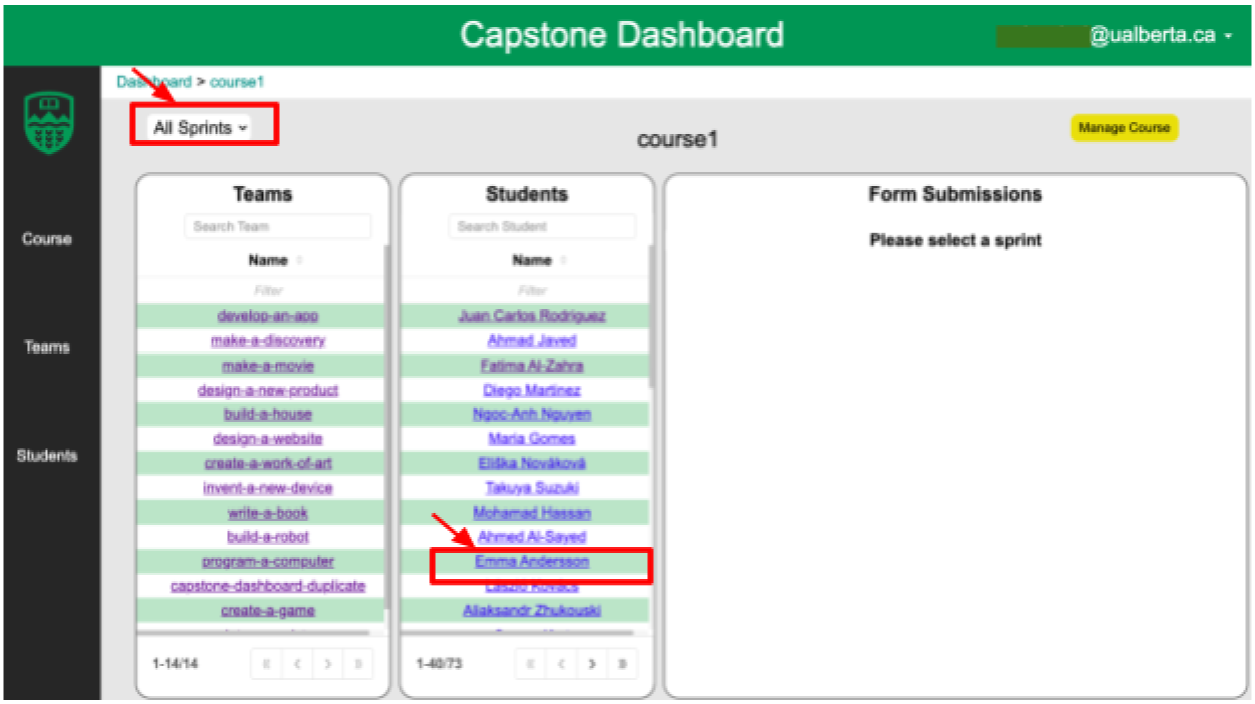
■ Set Reg Flag Threshold on Students' Average Peer Review Score

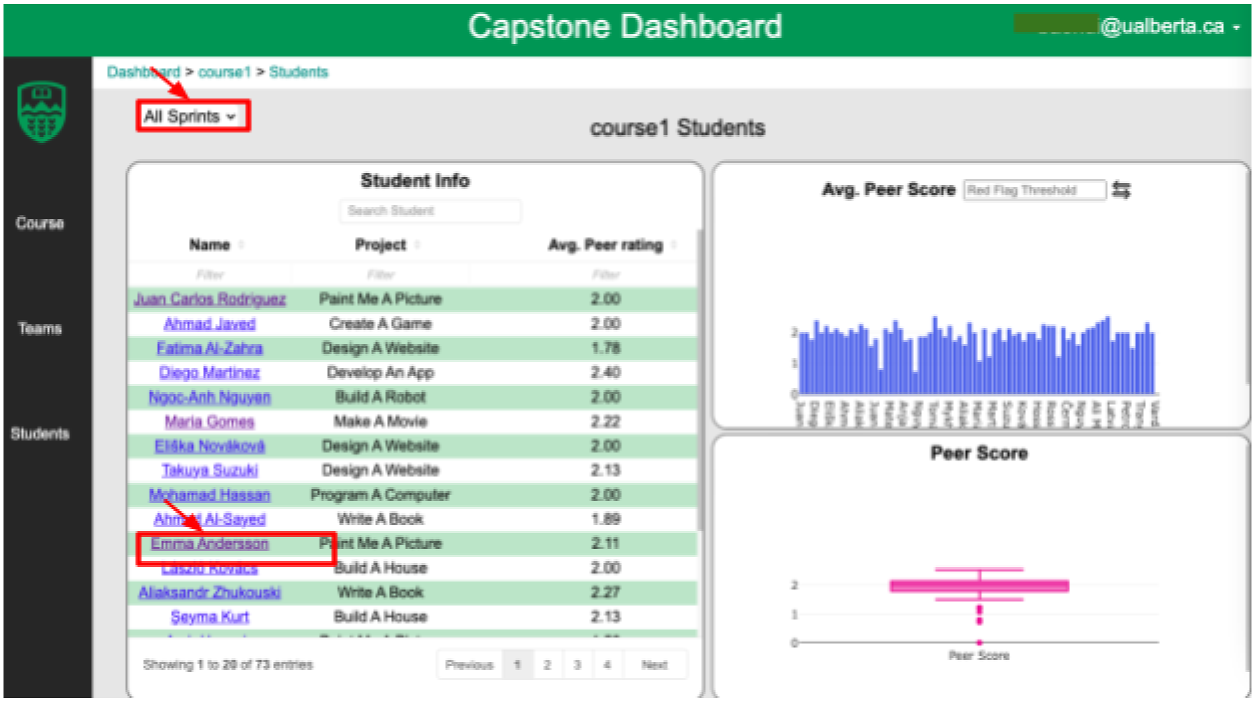
Use case: as an authorized user, I can enter a threshold to red-flag students with lower average peer score.



- For Individual Student

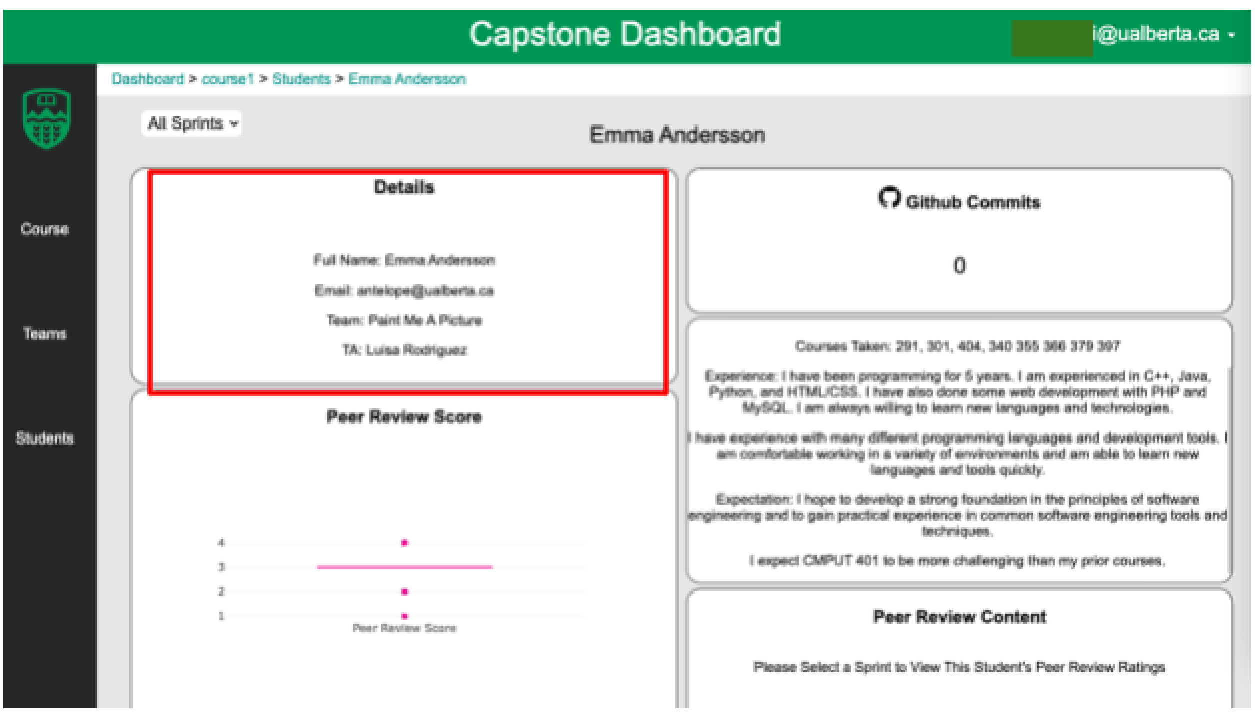
  Use case: as an authorized user, I can select a sprint and then click on a student name in the list, either in the Course page or the Students page, to view the analytics of this student in the course.





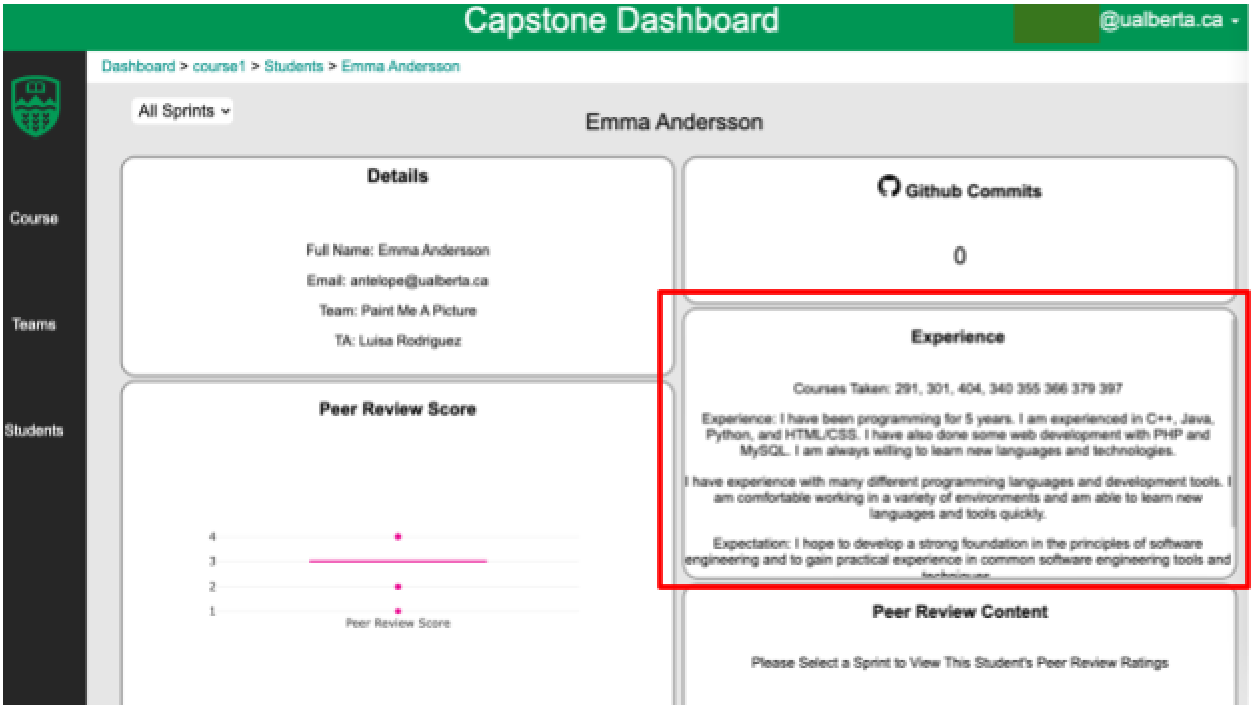
■ View the Student’s Information

Use case: as an authorized user, I can view a student’s course information, such as name, email, team project and assigned TA.



- View the Student's Experience

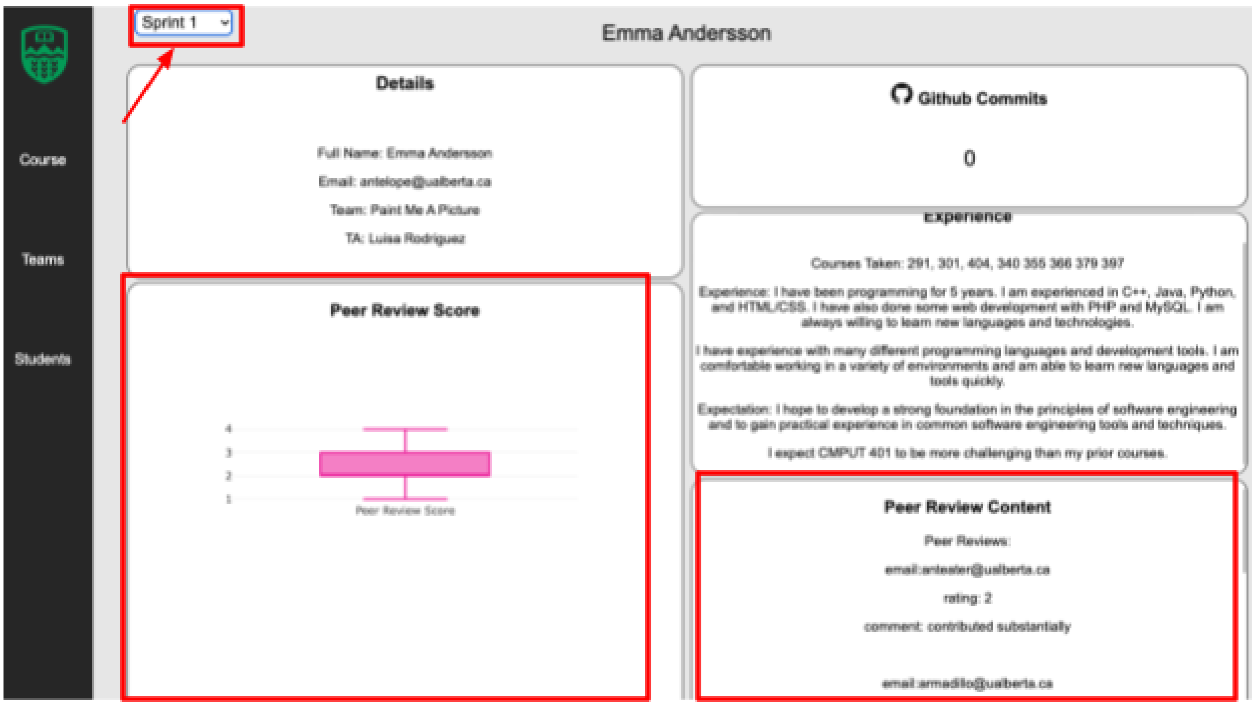
  Use case: as an authorized user, I can view a student's experience and expectation, such as courses he/she has taken before.



- View the Student's Peer Review Content

  Use case: as an authorized user, I can select a sprint and view a student's received peer review rating and comments from his/her team members.

  I can also view the received peer review score in the box plot.



- View the Student’s Github Commit

  Use case: as an authorized user, I can select a sprint and view a student’s Github Commits number.