

# TeamBandit

## User Manual



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# 1 Introduction

TeamBandit has been created to help reduce the demand of managing team based courses. This application offers the ability for organizers to easily manage information regarding their courses and for students to submit digitized information. In order to use the application, you will need to make sure you have the latest version of your browser installed and navigate to <http://34.216.91.228/organizer-sign-in>. This document is a guide for utilizing all of the features created in TeamBandit.

## 2 Installation

The entirety of this section is for users that are in a position to possibly manage the software. This section is not intended for end users. If you wish to understand how to use the application as a course organizer, please continue to section 3, the End User Guide.

As part of final delivery, the system should have been installed on a platform of your choice. Over time, however, you may want to move to a new platform or re-install the product. In this section of the document you will be walked through the necessary steps to install this product on a new server.

### 2.1 Initial Server Login

Secure a server via a hosting website (AWS, Digital Ocean, etc). Typically these servers will be classified as web servers and have their outbound facing ports (80 and 443) open and configured for traffic.

1. Open terminal and ssh into server using command provided by hosting service.
  - a. For an Amazon AWS server this may look like this 'ssh [username@xx.xxx.xx.xxx](#) -i pemfilename.pem'
2. You are now logged onto a fresh server and must set it up to utilize the various technologies in TeamBandit's tech stack

### 2.2 Tech Setup

This portion of the document will be broken down into sections for each of the large technologies used. These will ready the server for the codebase to be downloaded and run out of the box.

#### 2.2.1 NPM

Node Package Manager is an invaluable tool for ensuring that javascript libraries and packages can be easily installed as they are numerous in this project. Below is a step by step to installing Node on a fresh web server.

1. While already SSHed into web server, type the following command into the terminal  
**`sudo apt install nodejs`**

- This will initiate the installation, once it is complete you can check that node is on your server by issuing this command

**`node -v or node --version`**

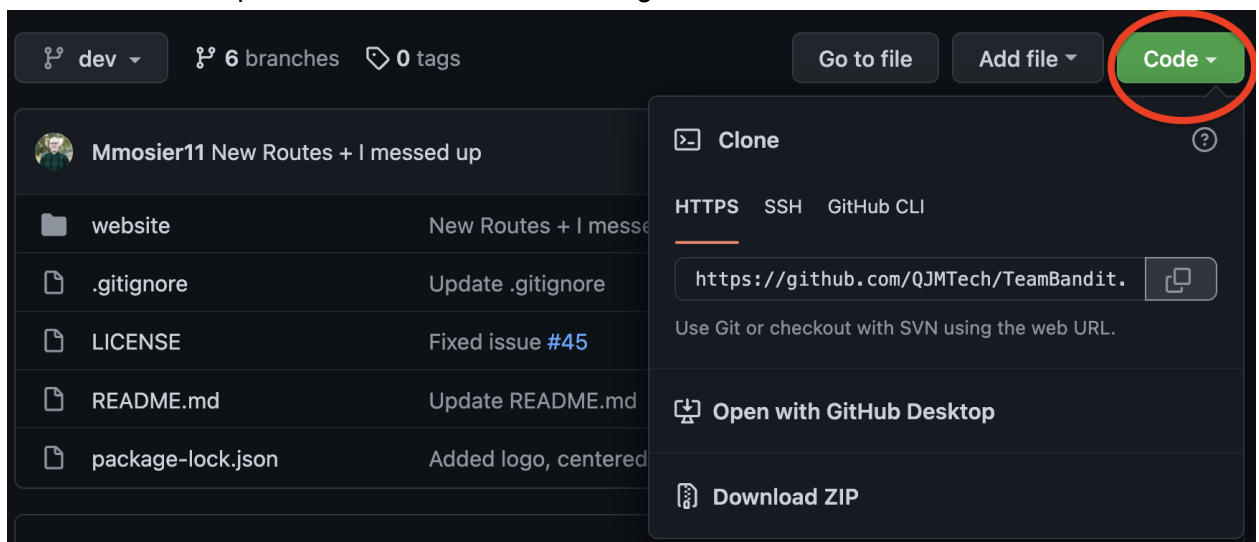
- Now that you have node installed, you will want its accompanying package manager, NPM. Install this with the command below

**`sudo apt install npm`**

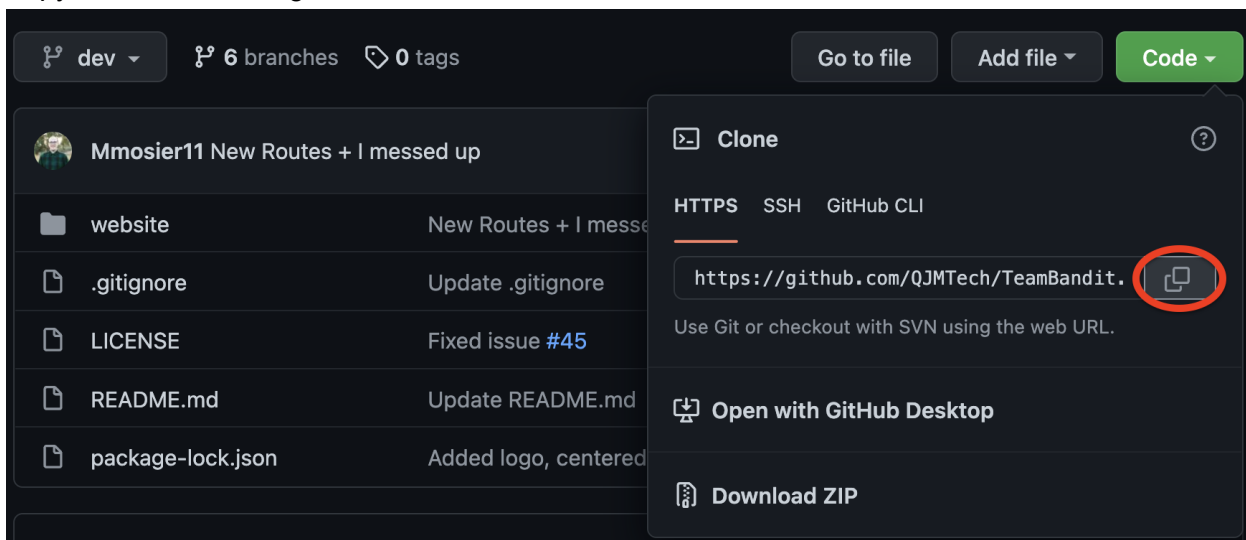
## 2.2.2 Git/GitHub

Git/GitHub will be used to get the codebase from the Git repository onto the web server to start serving our files. There are other ways to do this such as downloading the file zip from GitHub and using an FTP program to move it onto the server and unzip it, however installing the code via Git is a great way to get your development cycle started as well. The steps are as follows.

- First, install Git if your server does not have it automatically using  
**`sudo apt install git`**
- Now that you have Git installed you'll want to set up our repository on our server. This repository can be found at [QJMTech/TeamBandit: Team Management Portal designed to make managing team-based classes easy. \(github.com\)](https://github.com/QJMTech/TeamBandit) (this may be moved in the future but will be provided to you)
- Click the code dropdown circled in the below image



4. Copy HTTPS link using the button circled below



5. Reopen terminal and type the following (with whatever HTTPS.git line you copied from the repository)

```
git clone https://github.com/QJMTech/TeamBandit.git
```

6. The github repository is now on your website! You can cd into it and begin working on the codebase or starting the application.

### 2.2.3 NPM Packages

1. One of the benefits of utilizing the create-react-app boilerplate is that there is an included method for installing all dependencies listed in the package.json file that comes with it. Type and run **`npm i`**
2. This will initiate a lengthy process as Node Package Manager reads the long list of dependencies and installs them onto the server. After it is finished one should be able to begin running the frontend of the application

### 2.2.4 Python Packages

The web scraping portion of the application requires Python to be installed on the server. Ubuntu distributions come with Python installed but not PIP, its package manager. Details on how to add this can be found below.

1. Run the command below

```
sudo apt install python3-pip
```

2. With Pip installed, one can now begin installing the necessary packages to run the email script

3. Run the command below to install them all at once

```
pip3 install requests imaplib email inspect operator uuid psycpg2 re  
time python3-dotenv datetime dateutil email_reply_parser
```

4. All python packages are now installed and the script can be run!

## 2.2 Running the Application

In order to run the application users must simply run the popular react command 'npm run build' in order to compile, build, and run the application using forever. To run the python parser (which always remains running and simply polls every minute), users must navigate to the server file and run 'python3 email\_scraper.py'. The application will now be up and running on the server's IP, which users can navigate to on their web browser.

## 3 End User Guide

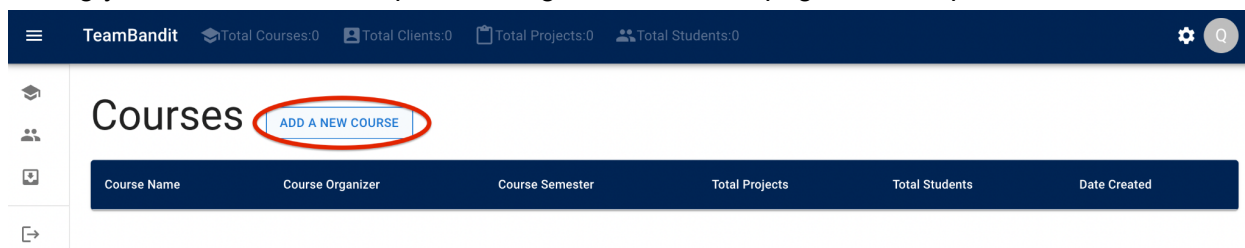
The bulk of this web application revolves around organizers and their ability to create, edit, and manage courses. Thus, this section will be the largest and contain the most information. It will be laid out chronologically in respects to how the organizer would typically operate, starting with creating a course.

### 3.1 Course Management

Course Management includes everything to do with a course, from its inception to populating it with information to running the course throughout the semester.

#### 3.1.1 Adding a Course

Adding your first course is simple, and begins on the homepage which is pictured below.



Clicking the 'Add a New Course' button circled above will open up a dialogue for you, as an organizer, to fill in the information necessary to create a course.

### Add a New Course

Please enter course information here.

Course Name \*  
CS476

---

Course Semester \*  
FALL2021

---

[CANCEL](#) [ADD COURSE](#)

This course, along with any others you have created, will appear in your Courses page now as seen below.

Course Name	Course Organizer	Course Semester	Total Projects	Total Students	Date Created
<a href="#">CS476</a>	Quinn Melssen	FALL2021	0	0	2022-05-01
CS421	Quinn Melssen	FALL2021	0	0	2022-05-01

One can now open a course by clicking on the circled link

## 3.1.2 Assignment Management

In order to properly get assignment submissions from students we added the ability to add assignments and for students to submit the corresponding files to them. This allows for the assignment submissions to easily be used in our application. They are primarily used in the Team Website (section 5.1).

### 3.1.2.1 Adding an Assignment

To start by adding an assignment you will want to navigate to the assignments tab.

CS 315 - AUTOMATA THEORY	PROJECTS	SCHEDULE	<u>ASSIGNMENTS</u>	STUDENTS	MENTORS	SETTINGS
--------------------------	----------	----------	--------------------	----------	---------	----------

Once there you will want to click on the Add button

Assignment	Start Date	Due Date	Type	Edit
<a href="#">Project Preferences</a>	04/11 at 14:08 MST	04/27 at 14:08 MST	Individual	
<a href="#">Design Review 2</a>	04/13 at 13:26 MST	04/19 at 13:26 MST	Individual	
<a href="#">Design Review 1</a>	04/15 at 10:54 MST	04/20 at 10:54 MST	Team	

Next you will want to fill out the corresponding information.



**Add Assignment**

Assignment Name

Assignment Start Date

Assignment Due Date

Allow Submissions After Due Date?

Submission Type

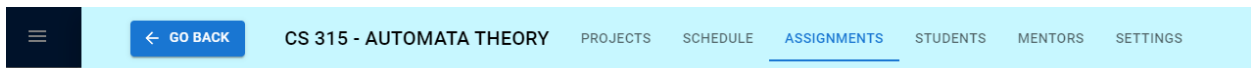
Upload Assignment PDF Instructions

 No file chosen
   
 

The assignment name is what the students will see. The assignment start date and the assignment due date need to correlate to dates in the schedule or else they will not populate the schedule. Other options include allowing for submissions after the due date, changing the submission type between individuals and teams, and uploading PDF instructions for the students to view.




### 3.1.2.2 Editing an Assignment

For editing an assignment you will want to be in the assignments tab



Once there you will want to click on the pencil edit icon:

The screenshot shows the 'Assignments' page with a table of assignments. The table has columns for 'Assignment', 'Start Date', 'Due Date', 'Type', and 'Edit'. The 'Edit' column contains pencil icons. The first row is circled in red, highlighting the pencil icon for the 'Project Preferences' assignment.

Assignment	Start Date	Due Date	Type	Edit
<a href="#">Project Preferences</a>	04/11 at 14:08 MST	04/27 at 14:08 MST	Individual	
<a href="#">Design Review 2</a>	04/13 at 13:26 MST	04/19 at 13:26 MST	Individual	
<a href="#">Design Review 1</a>	04/15 at 10:54 MST	04/20 at 10:54 MST	Team	

Next you will need to change the information that you would like to change.

### Edit Assignment

Assignment Start Date

04/11/2022 02:08 PM

Assignment Due Date

04/27/2022 02:08 PM

Assignment Name

Assignment Name

Project Preferences

Upload Assignment PDF Instructions

Choose File No file chosen



You can change the start date, due date, the assignment name, and upload a new assignment PDF instruction. Once you have the information changed that you want you can hit the save button to save the information.

### 3.1.2.3 Delete an Assignment

For the deleting of an assignment you will follow the same instructions of 3.1.2.2 Editing Assignment. Once you open the edit menu you will instead click on the delete assignment.

### Edit Assignment

Assignment Start Date

04/11/2022 02:08 PM

Assignment Due Date

04/27/2022 02:08 PM

Assignment Name

Assignment Name

Project Preferences

Upload Assignment PDF Instructions

Choose File No file chosen



You will then be prompted to confirm you want to delete the assignment, either confirm this or cancel.

## Delete Assignment

Are you sure you want to delete this assignment? This will delete ALL student submissions for this assignment.



## 3.1.3 Mentor Management

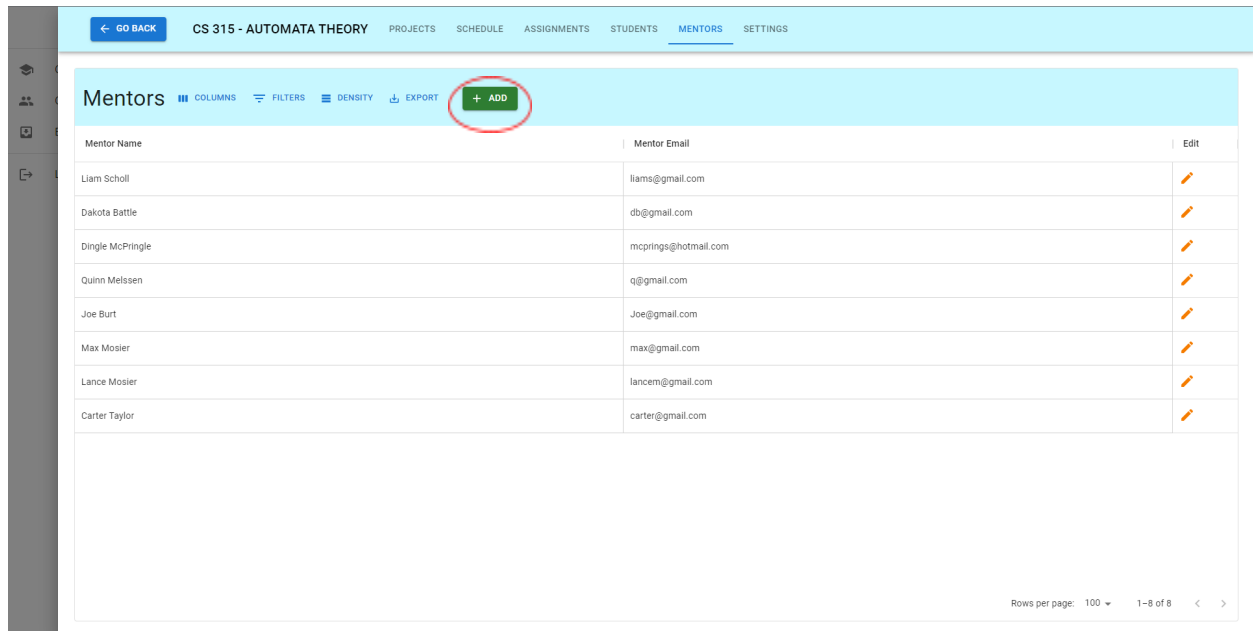
Mentors help manage and keep track of teams and their progress throughout the course. This section will cover the various options for managing mentors.

### 3.1.3.1 Adding a Mentor

To add a mentor you need to navigate to the mentors tab in the course.



Once there you will want to click on the add button.



The button will open up a new dialog where you will want to fill out the corresponding information.

**Add Project**

Mentor Name

Max Mosier

Mentor Email

maxm@gmail.com

+ ADD

X CANCEL

Once finished you will click the add button to add them to your list.









**3.1.3.2 Editing a Mentor**

For editing a mentor you will want to be in the mentors tab



Once there you will want to click on the pencil edit icon:

The screenshot shows a table titled 'Mentors' with columns for Mentor Name, Mentor Email, and Edit. The first row is circled in red, highlighting the pencil edit icon.

Mentor Name	Mentor Email	Edit
Liam Scholl	liams@gmail.com	
Dakota Battle	db@gmail.com	
Dingle McPringle	mcprings@hotmail.com	
Quinn Melssen	q@gmail.com	
Joe Burt	Joe@gmail.com	
Max Mosier	max@gmail.com	
Lance Mosier	lancem@gmail.com	
Carter Taylor	carter@gmail.com	

Next you will need to change the information that you would like to change.

**Edit Mentor**

Fill out the forms you would like to change:

Mentor Name  
Liam Scholl

Mentor Email  
liams@gmail.com



EDIT

CANCEL

 PERMANENTLY DELETE

You can change the Mentor Name, and the Mentor email. Once you have the information changed that you want you can hit the edit button to save the information.

### 3.1.3.3 Delete a Mentor

For the deleting of a mentor you will follow the same instructions of 3.1.3.2 Editing a Mentor. Once you open the edit menu you will instead click on the permanently delete button.

#### Edit Mentor

Fill out the forms you would like to change:

Mentor Name Liam Scholl	Mentor Email liams@gmail.com	EDIT
CANCEL	PERMANENTLY DELETE	

You will then be prompted to confirm you want to delete the assignment, either confirm this or cancel.

#### Delete Mentor

Are you sure you want to delete this mentor?

DELETE MENTOR
CANCEL

## 3.1.4 Project Management







Projects are an integral part of TeamBandit. Projects act as the central location for what goes on throughout the application.

### 3.1.4.1 Adding a Project

When adding a project you will first want to be in the Projects tab of a course.



Once there you will click on the add button.

Project Title	Project Sponsor	Student Team	Team Mentor	Edit
<a href="#">Engineering Career Network</a> <a href="#">Project Description</a> <a href="#">Student Team Page</a>	<b>Max Mosier</b> Front End Dev. Cognizant Roswell, NM 	<b>Warriors</b>  <ul style="list-style-type: none"> <li><a href="#">Richard Garcia</a></li> <li><a href="#">Quinn Melissen</a></li> <li><a href="#">Chris Evans (Lead)</a></li> </ul>	Dakota Battle <a href="#">db@gmail.com</a>	
<b>SociAll</b> <a href="#">Project Description</a> <a href="#">Student Team Page</a>	<b>Quinn Melissen</b> Software Eng. Toyota Buckeye, AZ 	<b>Wolves</b>  <ul style="list-style-type: none"> <li><a href="#">Dean Man</a></li> <li><a href="#">Steve Irving</a></li> <li><a href="#">Carter Taylor (Lead)</a></li> </ul>	Liam Scholl <a href="#">liams@gmail.com</a>	

This will then open up a dialog menu where you will want to fill out the corresponding fields.

### Add Project

\* YOU CAN LEAVE MENTOR, AND SPONSOR SLOT BLANK.

Project Name

Project Name

Team Mentor

Team Mentor

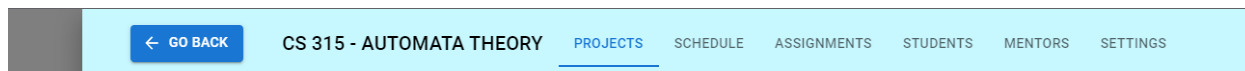
Project Sponsor

Project Sponsor

Once you have filled out the information you will be able to add it through the add button. It's important to note that you will only need to fill out a project name, you can leave the mentor and sponsor blank and add those through the edit option later.

### 3.1.4.2 Editing a Project

The edit feature for a project is really important as you may want to add to the project later after you have other information filled out. To start you will want to navigate to the projects tab in a course.



Once there you will want to click on the pencil edit icon located here.

Project Title	Project Sponsor	Student Team	Team Mentor	Edit
<b>Engineering Career Network</b> <a href="#">Project Description</a> <a href="#">Student Team Page</a>	<b>Max Mosier</b> Front End Dev. Cognizant Roswell, NM	<b>Warriors</b> <ul style="list-style-type: none"> <li>Richard Garcia</li> <li>Quinn Melssen</li> <li>Chris Evans (Lead)</li> </ul>	Dakota Battle db@gmail.com	
<b>SociAll</b> <a href="#">Project Description</a> <a href="#">Student Team Page</a>	<b>Quinn Melssen</b> Software Eng. Toyota Buckeye, AZ	<b>Wolves</b> <ul style="list-style-type: none"> <li>Dean Man</li> <li>Steve Irving</li> <li>Carrie Taylor (Lead)</li> </ul>	Liam Scholl liams@gmail.com	

Once you click on the edit icon you will open up another dialogue revealing options for you to do.

#### Edit Project

\* YOU CAN LEAVE MENTOR, SPONSOR, PDF, AND TEAM LEAD FIELDS BLANK IF YOU DON'T WANT THEM CHANGED.

Project Name

Team Mentor

Project Sponsor

Team Lead

Upload Project PDF Description

 No file chosen




Editing the Team Mentor, Project Sponsor, and the Team Lead are all drop downs. This is so you can only select from Mentors, Sponsors, and Students who have already been added to the application. Once you have selected these or uploaded a project PDF description you will be able to click the save button to save the new information.

#### 3.1.4.3 Deleting a Project

For deleting a project you will follow the similar steps of editing a project process located in 3.1.4.2 Editing a Project. Once you open the edit dialog you will instead click on the permanently delete project button to delete the project.

**Edit Project**

\* YOU CAN LEAVE MENTOR, SPONSOR, PDF, AND TEAM LEAD FIELDS BLANK IF YOU DON'T WANT THEM CHANGED.

Project Name

Project Name  
Engineering Career Network

Team Mentor

Team Mentor

Project Sponsor

Project Sponsor

Team Lead

Team Lead

Upload Project PDF Description

Choose File No file chosen

SAVE CANCEL PERMANENTLY DELETE PROJECT

You will then be prompted to confirm you want to delete the project, either confirm this or cancel.

**Delete Project**

Are you sure you want to delete this project forever?

DELETE PROJECT FOREVER

CANCEL

### 3.1.5 Schedule Management

The course schedule helps for students and organizers to keep track of when assignments will be due and who has submitted them.

#### 3.1.5.1 Adding a Schedule

When adding a schedule you will need to make sure that you are located in the schedule tab of a course.

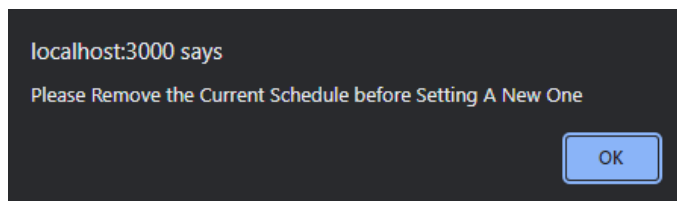


If you want to add a course you want to click on the set weeks button located here.



Week	Topics and Assignments	Deliverables	Actions
4/4	<a href="#">Team Website</a> (Team Assignment) <a href="#">Software Design Document</a> (Team Assignment)	<a href="#">Software Design Document</a> due by: 19:55 MST <b>0/7 SUBMISSIONS</b>	
4/11	<a href="#">Project Preferences</a> (Individual Assignment) <a href="#">Design Review 2</a> (Individual Assignment) <a href="#">Design Review 1</a> (Team Assignment) <a href="#">Peer Evaluation 1</a> (Individual Assignment)	<a href="#">Peer Evaluation 1</a> due by: 19:54 MST <b>0/15 SUBMISSIONS</b>	

It's important to note that if you already have an existing schedule you will be met with this indicator:



This is because you already have an existing schedule so you need to delete it first. You can do this by clicking the remove all weeks button and confirming your decision. If you don't have a schedule you will be met with this dialog.

**Set Weeks**  
Schedule Start Week

Select the first day of this course

Number of Weeks in Course

The number of weeks must be an integer between 1 and 52 (inclusive)

**+ SET WEEKS** **× CANCEL**

Select the starting date and the number of weeks and the schedule will automatically populate for you.

### 3.1.5.2 Viewing submitted assignments

Once a student team or individual student submits an assignment you will need to be able to view it. This is located in the schedule tab in a course.

<a href="#">← GO BACK</a>	CS 315 - AUTOMATA THEORY	<a href="#">PROJECTS</a>	<a href="#">SCHEDULE</a>	<a href="#">ASSIGNMENTS</a>	<a href="#">STUDENTS</a>	<a href="#">MENTORS</a>	<a href="#">SETTINGS</a>
---------------------------	--------------------------	--------------------------	--------------------------	-----------------------------	--------------------------	-------------------------	--------------------------

Once located here, you will need to have assignments populating the current weekly schedule. If you need to add assignments do this first, and make sure they are in your schedule dates.

Week	Topics and Assignments	Deliverables	Actions
4/11	<a href="#">Project Preferences</a> (Individual Assignment) <a href="#">Design Review_2</a> (Individual Assignment) <a href="#">Design Review_1</a> (Team Assignment) <a href="#">Peer Evaluation_1</a> (Individual Assignment)	<a href="#">Peer Evaluation_1</a> due by: 19:54 MST	<a href="#">0/15 SUBMISSIONS</a>

Once you have assignments in your schedule you will want to click on the submissions button to view the submissions. If students have not submitted anything, nothing will be populated in the dialog.



### 3.1.5.3 Viewing assignment details

Assignment details are essential in letting the students understand the assignment. To view the current assignment details you will want to be in the schedule tab located in a course.

Week	Topics and Assignments	Deliverables	Actions
4/4	<a href="#">Team Website</a> (Team Assignment) <a href="#">Software Design Document</a> (Team Assignment)	<a href="#">Software Design Document</a> due by: 19:55 MST	<a href="#">0/7 SUBMISSIONS</a>

Once here you will want to click on the assignment name, this will open up the assignment details page in a new window.

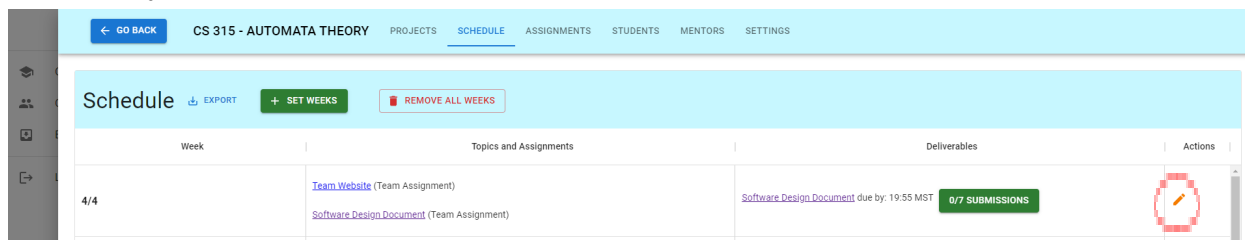
Week	Topics and Assignments	Deliverables	Actions
4/4	<a href="#">Team Website</a> (Team Assignment) <a href="#">Software Design Document</a> (Team Assignment)	<a href="#">Software Design Document</a> due by: 19:55 MST	<a href="#">0/7 SUBMISSIONS</a>

### 3.1.5.3 Editing Week Milestones

Milestones can be utilized to notify students of major events for that week. This can include things such as spring break or a major presentation. In order to do this you will want to be located in the schedule tab in a course.



From here you will want to click on the pencil edit icon located here.



This will open up a dialog where you can set the milestone for that specific week. You can also utilize HTML with inline styling if you wish.

#### Edit Schedule Week

Schedule Week Milestone

Schedule Week Milestone (Maximum 500 characters)

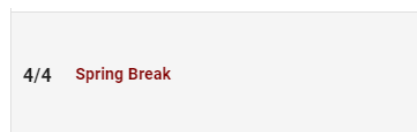
`<p style="color: maroon; font-weight: bold;">Spring Break</p>`

You can enter your own HTML with in-line styling if you wish!

SAVE

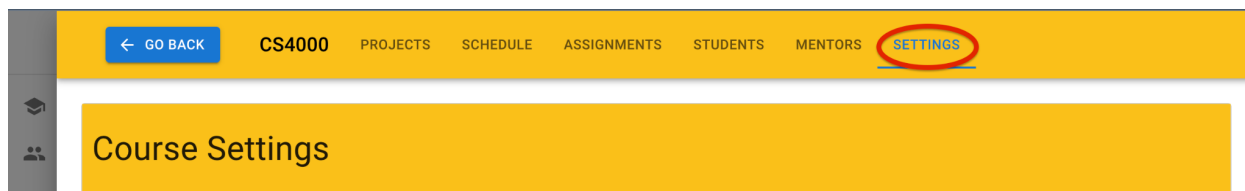
CANCEL

This is an example of the above message.



### 3.1.6 Course Settings

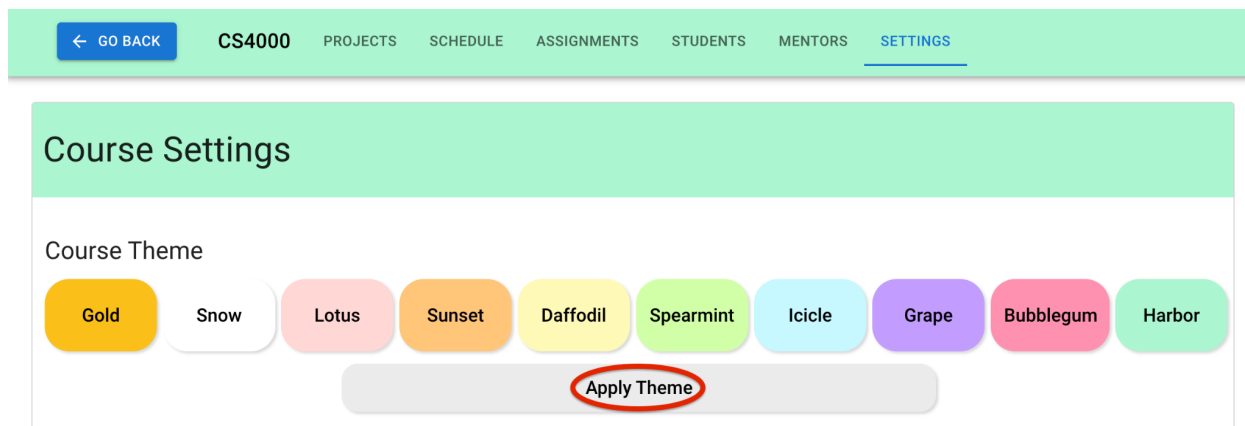
Course settings can be accessed by navigating to the course menu and hitting the settings tab as shown below.



In course settings an organizer can perform many functions, these will be shown in the following sections.

### 3.1.6.1 Changing Course Theme

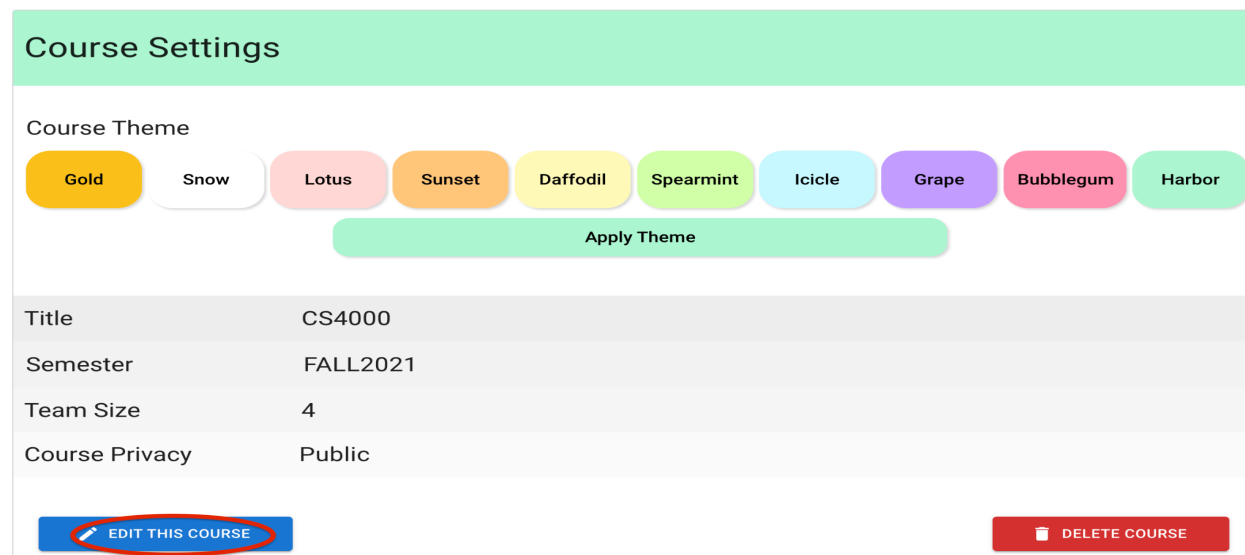
Gold too bold? Click one of the various pre-generated themes and then the 'apply theme' button to set a new color for the course. This is seen by both the organizer and any students looking at the course.



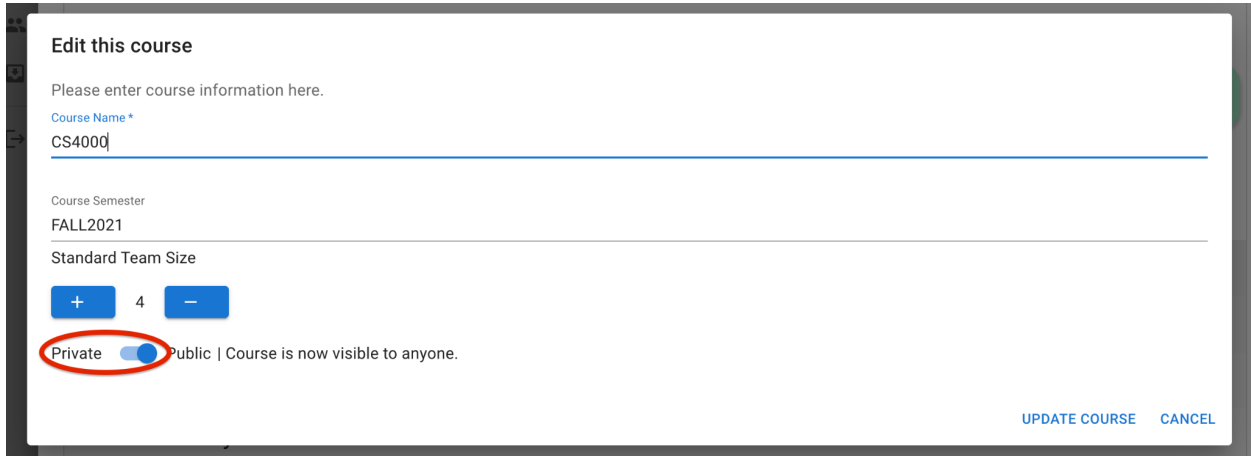
Here you can see our Harbor theme in action!

### 3.1.6.2 Changing Course to Public or Private

An organizer can change the course to public or private. This will change whether or not the team/project page can be seen by outside sources such as students, clients, or other interested parties. To reach the slider one must click the 'edit this course' button shown below.



After clicking this button a menu will appear, on which you will find the slider to dictate whether or not the course is public.



**Edit this course**

Please enter course information here.

Course Name \*  
CS400d

Course Semester  
FALL2021

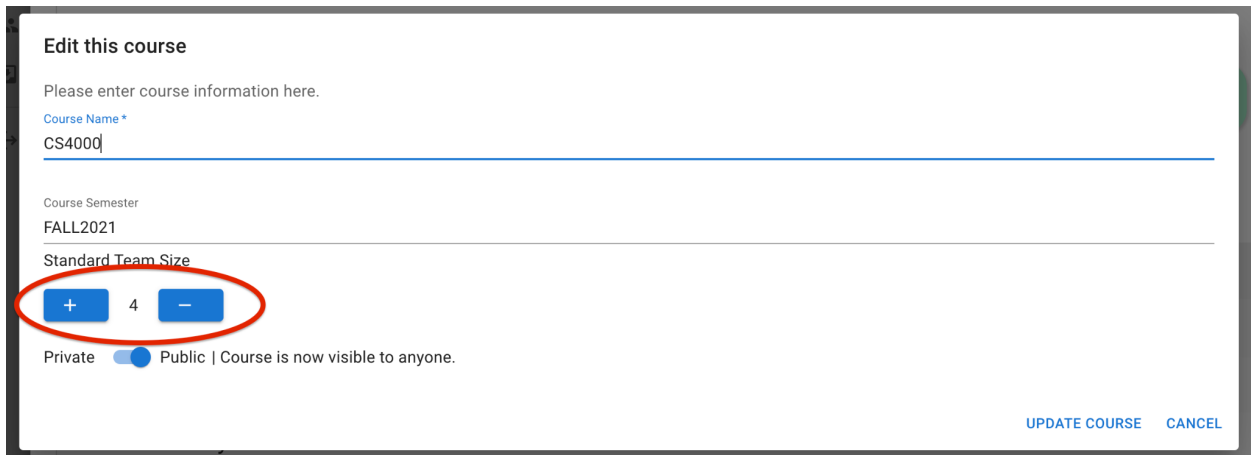
Standard Team Size  
+ 4 -

Private  Public | Course is now visible to anyone.

UPDATE COURSE CANCEL

### 3.1.6.3 Change Course Teams Size

On the same page, one can find the option to change the team size by using the + and - buttons highlighted below



**Edit this course**

Please enter course information here.

Course Name \*  
CS400d

Course Semester  
FALL2021

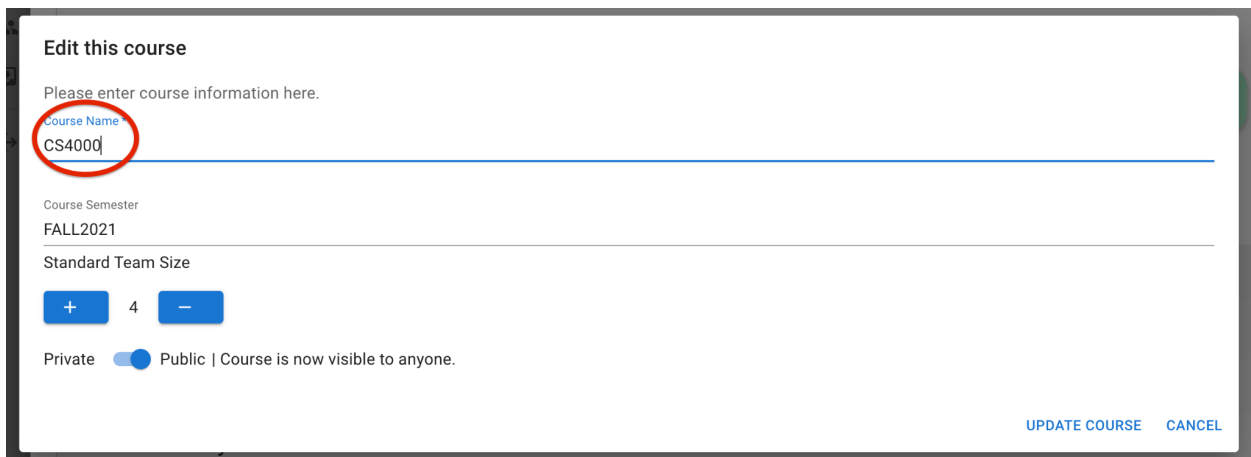
Standard Team Size  
+ 4 -

Private  Public | Course is now visible to anyone.

UPDATE COURSE CANCEL

### 3.1.6.4 Change the Course Name

The course name can be changed on the popup via the text field.



**Edit this course**

Please enter course information here.

Course Name \*  
CS400d

Course Semester  
FALL2021

Standard Team Size  
+ 4 -

Private  Public | Course is now visible to anyone.

UPDATE COURSE CANCEL

### 3.1.6.5 Delete Course

Deleting a course can be done by navigating to the course settings tab as shown above, and clicking the DELETE COURSE button.

Course Settings	
Course Theme	
Gold	Snow
Lotus	Sunset
Daffodil	Spearmint
Icicle	Grape
Bubblegum	Harbor
Apply Theme	
Title	CS4000
Semester	FALL2021
Team Size	4
Course Privacy	Public
EDIT THIS COURSE	
DELETE COURSE	

Due to the permanent nature of this choice, a confirmation popup will appear and ask users to confirm this decision. They can permanently delete the course by clicking the button highlighted below.

**Permanently Delete Course**

Are you sure you want to delete this course forever?

DELETE COURSE FOREVER

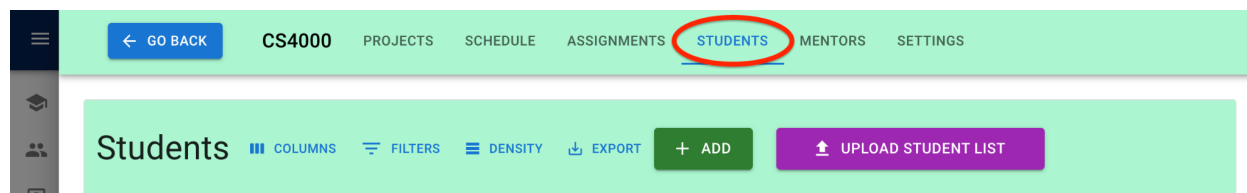
CANCEL

### 3.1.7 Student Management

In order to properly get assignment submissions from students we added the ability to add assignments and for students to submit the corresponding files to them. This allows for the assignment submissions to easily be used in our application. They are primarily used in the Team Website (section 4.1).

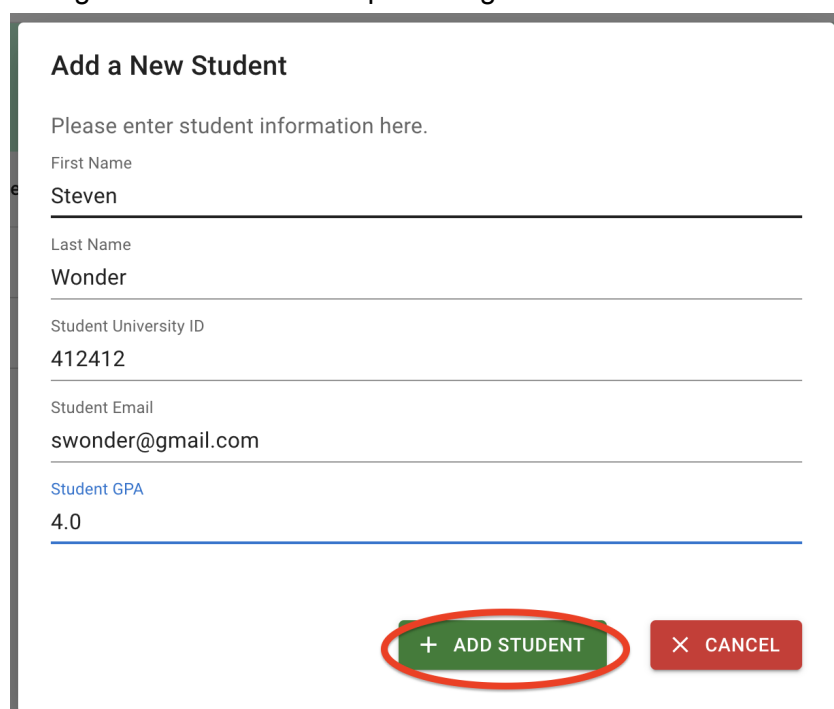
### 3.1.7.1 Adding a Student

Organizers must start by opening a created course and navigating to the student tab in the top navbar as shown below.



From here they can start editing, adding, and deleting students to this particular course. To add a student they can either click the add button or upload student list button featured in the image above.

For adding a single student by hand, the 'add' button must be used. This will open a popup asking for meta information pertaining to the student as shown below.

A screenshot of a modal form titled 'Add a New Student'. The form contains several input fields with the following text: 'Please enter student information here.', 'First Name: Steven', 'Last Name: Wonder', 'Student University ID: 412412', 'Student Email: swonder@gmail.com', and 'Student GPA: 4.0'. At the bottom of the form, there are two buttons: a green button with a plus sign and the text '+ ADD STUDENT' (highlighted with a red circle) and a red button with an 'X' and the text 'CANCEL'.

After inserting the appropriate information and pressing 'add student', the modal will close and the student will be seen in the table.

The 'upload student list' button will open our CSV uploader, where organizers can drag and drop or select a CSV with specific headers to populate the student list with multiple entries at once.

A snapshot of the expected headers can be viewed by clicking the question mark in the top right of the menu. This will open the upload instructions seen below.

## Upload Instructions

Currently only the file type of .csv is supported. You will also need to include header rows to properly identify the data. These headers include: firstName, lastName, studentID, email, and gpa. An example of what your file should look like is below.

If you want to include a 'comment line', you can add # or % at the start of your line. This will not include that line for upload. This would be in the 'firstName' column.

Example:

	A	B	C	D	E
1	firstName	lastName	studentID	email	gpa
2	Dakota	Battle	333333	dakotab@gmail.com	3.7
3	Liam	Scholl	555554	liams@gmail.com	4

Once a file is selected, users will be able to see a snapshot of the students in that file before they officially commit them to the database using the button circled below.


First Name	Last Name	Student ID	Email	GPA
Richard	Garcia	600006	richardg@gmail.com	2.5
Bob	Marley	700007	bobm@gmail.com	3.5
Chris	Evens	800008	chrise@gmail.com	3.2
Billie	Eyes	500005	billiee@gmail.com	4.0
Max	Mosier	33331	maxm@gmail.com	3.1
Joe	Burt	11112	joeb@gmail.com	1.5
Quinn	Melssen	22223	quinnm@gmail.com	3.6
Carter	Taylor	44444	cartert@gmail.com	3.8
Dakota	Battle	333333	dakotab@gmail.com	3.7
Liam	Scholl	555554	liams@gmail.com	4.0

At the bottom left of the table, there is a purple button labeled 'IMPORT' which is circled in red. At the bottom right, there is an orange button labeled 'CANCEL'.



### 3.1.7.2 Editing a Student

Editing a student is simple and can be done from the student tab. Clicking the edit icon circled below will open a popup where student metadata can be changed and recommitted.

Students						
First Name	Last Name	Student ID	Email	GPA	Last Sign-In	Edit
Tommy	Lee	44124	qjmelssen@gmail.com	4.5	Never	

### 3.1.7.3 Deleting a Student

Deleting a student can be done from the edit menu as well, where one will find the 'delete student' button highlighted below.

#### Edit Student

Fill out the forms you would like to change:




First Name  
Tommy

Last Name  
Lee

Student ID  
44124

Email Address  
qjmelssen@gmail.com

GPA  
4.5

 SAVE
 CANCEL
 DELETE STUDENT

An additional popup will appear asking if the professor means to do this. This acts as a safety precaution as student deletion is permanent.

## 3.1.8 Team Assignment

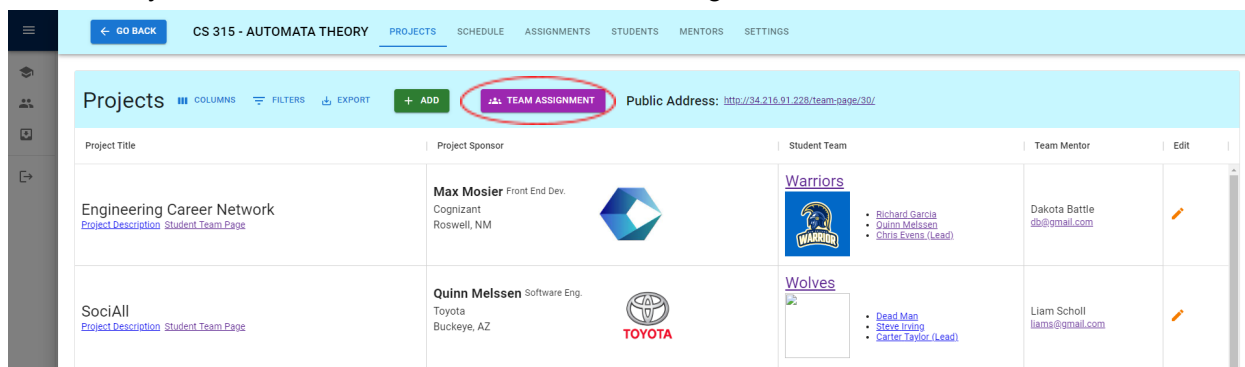
For every project added to the course there will be a team that gets generated for it. In this section we will cover how to add students to a team and assign the team lead. **It's important to note that the organizer can only assign students to teams, not change any information about the team such as the team name. This is for the team lead to do.**

### 3.1.8.1 Assign Students to Team

The first step of adding students to a team requires you to navigate to the teams assignment portal. First you want to make sure that you are in the projects tab.



From here you will then want to click on the Team Assignment button.

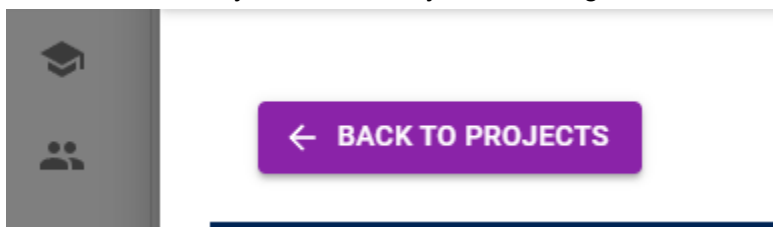


This will open up the team's assignment page. Note that you will need projects, students, and for students to fill out project preferences to get the full effect. This is the window that you will be met with.

Students	Projects								Team Size Goal: 2
	Student Information	GPA ↑	Assigned Project	Engineering Career Network	SociAll	GeekSurvey	TeamBandit	Another Project	
Total Assigned:			3	3	1	2	1	0	0
Max Mosierz, maxm@gmail.com,	3.12		1	3	2	4			5
Quinn Melssen, quinnm@gmail.com,	4	Engineering Career Network	1	3					
Carter Taylor, cartert@gmail.com,	3.8	SociAll		2	5	1		4	
Dakota Battle, dakotab@gmail.com,	3.7	Another Project							
Liam Scholl, liams@gmail.com,	4								
Chris Evens, chrise@gmail.com,	3.2	Engineering Career Network		2	4	1		5	3
Steve Irving, steveeee@gmail.com,	8.9	SociAll		3					
Dead Man, deadm@gmail.com,	6.6	SociAll							
Billie Eyes, billiee@gmail.com,	4	TeamBandit							
Richard Garcia, richardg@gmail.com,	2.5	Engineering Career Network							
Bob Marley, bobm@gmail.com,	3.5	GeekSurvey							
Joe Burt, joeb@gmail.com,	1.51								

This example has a lot going on but this is an example of what your team's page will look like. I put letters on each notable section and will cover what each section does further below.

A) This is the button you will click if you want to go back to the projects section.



B) This section houses all of the students and relevant student information. If the student is green it means they have been assigned to a team. This section also keeps track of what projects each student is assigned to.

Student Information	GPA ↑	Assigned Project
Total Assigned:		
Max Mosierz, maxm@gmail.com,	3.12	
Quinn Melssen, quinnm@gmail.com,	4	Engineering Career Network
Carter Taylor, cartert@gmail.com,	3.8	SociAll

C) This section notifies the organizer of the current size for each project. Orange means that there are too many students assigned to the current project, green means there is the desired amount, and red means that you still need to add more.

SociAll	GeekSurvey	TeamBandit
3	1	2

D) This indicates the team size goal, while not mandatory to keep this, its helpful

### 3.1.8.2 Assign a Team Lead for a Team

Assigning a team leader allows that particular student access to a broad range of capabilities such as modifying the team website, changing team roles, etc. To assign a student team lead, organizers must navigate to the project page and hit the edit icon circled below.

Project Title	Project Sponsor	Student Team	Team Mentor	Edit
DuckyGo <a href="#">Project Description</a> <a href="#">Student Team Page</a>		<ul style="list-style-type: none"><li><a href="#">Bobby Smurf</a></li><li><a href="#">Tommy Lee</a></li><li><a href="#">Steven Wonder</a></li></ul>		

This will open up a popup where the team lead can be assigned.

### Edit Project

\* YOU CAN LEAVE MENTOR, SPONSOR, PDF, AND TEAM LEAD FIELDS BLANK IF YOU DON'T WANT THEM CHANGED.

Project Name

Team Mentor

Project Sponsor

Team Lead

- Team Lead
- Bobby Smurf
- Tommy Lee
- Steven Wonder

## 3.2 Client Management

Clients are crucial as they are the ones who usually propose a project and interact with the teams in order to bring the final product to life. Their vision guides the process throughout the semester. Clients are found outside of the course menu and can be navigated to via the sidebar.

The screenshot shows the TeamBandit interface. The top navigation bar includes 'TeamBandit' and statistics: Total Courses:1, Total Clients:0, Total Projects:1, Total Students:3. The sidebar on the left lists 'Courses', 'Clients' (circled in red), 'Email Hub', and 'Logout'. The main content area is titled 'Clients' and features two buttons: 'ADD CLIENT' and 'UPLOAD CLIENT LIST'. Below these is a table with columns: COLUMNS, FILTERS, EXPORT, Last name, First name, Email, Organization, Phone Num..., Location, Logo, Notes, and Edit.

Once in the clients page they can be added, uploaded, edited, and deleted in much the same way as students. To read more about these controls read 3.1.7.1 - 3.1.7.3.

## 3.3 Email Hub

Once clients are added to the client table, they will appear in TeamBandit's email hub. Here, all emails from the clients will be displayed if the client sent an email to your organizer email and CC'd [TeamBanditManager@gmail.com](mailto:TeamBanditManager@gmail.com).

The screenshot shows the TeamBandit interface with statistics: Total Courses:5, Total Clients:5, Total Projects:32, Total Students:18. The sidebar on the left lists 'Courses', 'Clients', 'Email Hub', and 'Logout'. The main content area is titled 'Email Hub' and features an 'Inbox' list on the left and a table of emails on the right. The table has columns: From, Subject, Date, and Attachment.

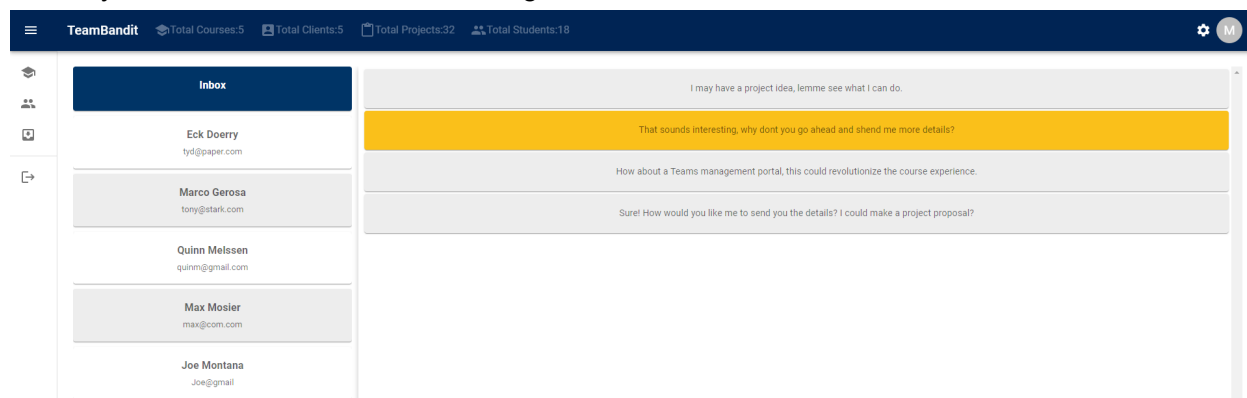
From	Subject	Date	Attachment
tony@stark.com	Western Digital: New Hard Drive	07:00 03-03	
Joe@gmail	Western Movie Props	07:00 03-03	
max@com.com	Project Idea	07:00 03-03	
tyd@paper.com	TeamBandit: Teams Management Portal	07:00 03-03	
quinn@gmail.com	Social: Keychain Manager	07:00 03-03	
tyd@paper.com	Western Movie Props	07:00 03-03	
tyd@paper.com	Western Movie Props	07:00 03-03	

If an email is selected, a popup will appear with the contents of that email.

The screenshot shows the TeamBandit interface with statistics: Total Courses:5, Total Clients:5, Total Projects:32, Total Students:18. The sidebar on the left lists 'Courses', 'Clients', 'Email Hub', and 'Logout'. The main content area is titled 'Email Hub' and features an 'Inbox' list on the left and a table of emails on the right. An email popup is open, showing the following details:

From: max@com.com  
 Subject: Project Idea  
 Date: 07:00 03-03  
 Body:  
 I may have a project idea, lemme see what I can do.

Along with this, the organizer can click on a client's name on the left side of the email hub and see only the emails sent between the organizer and the selected client.



## 4 Maintenance

Fortunately, little maintenance is needed for our product. One of the few places where a breakdown could eventually occur is in the messages table of the database, as email spammers are so prevalent in the modern day technical landscape. These spammers may gain the information of the [TeamBanditManager@gmail.com](mailto:TeamBanditManager@gmail.com) email account and begin to fill the inbox with emails, which will be pulled into the database by the email scraper despite the fact that they will not be displayed to any organizers or users.

In order to alleviate this problem one may wish to occasionally

1. Delete the rows in the messages table. These emails usually exist in some other capacity (in the organizers regular email inbox) and as such it is not incredibly detrimental for them to be deleted from the application.
2. Log into the email account to block any potential spammers. This will reduce the amount of emails flooding the inbox on a daily basis to minimize the amount of times one must do step 1.

Updating all Node Packages/Libraries and Python Packages occasionally will also help to keep the server up to date, but may cause conflicts.

## 5 Troubleshooting

The portion of the document will focus on potential problems that may arise in the future, based primarily off of those experienced during this phase of development. The problems will be bulleted in non-sequential order with their solutions laid out beneath them.

- Server becoming unresponsive on 'npm run start'
  - This is most likely due to not having enough memory on the server. The application will lock in a permanent build screen, eventually even being unable to be SSHed into.

- The fix for this problem is to restart the server and increase its memory overhead. This will cost money but is the only way to allow the application to be built as we have already disabled certain settings that increase the memory usage in attempts to avoid this.
- Unable to log in to web application
  - This could be indicative of an issue occurring when the user account was stored.
  - To fix this problem, one could try clearing their browser cache and cookies, restarting the web server, or creating a new account.
- Unable to add a client or student through a CSV upload
  - This usually means the CSV file that was uploaded was incorrectly formatted, and the examples provided in the uploader should be followed.
  - If the instructions were correctly followed, a server restart may be required.
- A file's name is not what the organizer set it as
  - From the end user guide, it is apparent that user input is common when initially setting up a course. When creating the name for let's say, an assignment, the organizer may choose to use unidentified, or unknown text characters. This is not recommended and plain, alphanumeric text should be used to ensure no issues.
  - If however, any issues were to arise, the organizer can simple delete the document, and create a new one.

## 6 Conclusion

Now that the team has finished the development of TeamBandit, we are hopeful that our client, Dr. Doerry, is able to have many years of productive use of the product, streamlining the course management process that he has been perfecting over the years. Even though the team is moving forward with professional careers, we would certainly be willing to answer any questions that Dr. Doerry may have in the future at any time. We can individually be reached at:

- [mlm886@nau.edu](mailto:mlm886@nau.edu) Max Mosier
- [las589@nau.edu](mailto:las589@nau.edu) Liam Scholl
- [qjm7@nau.edu](mailto:qjm7@nau.edu) Quinn Melssen
- [db2354@nau.edu](mailto:db2354@nau.edu) Dakota Battle

Again, we hope you take advantage of this application and continuously update it to make course management simpler.

Team Outlaws