



# USER MANUAL

EasyClass  
Computer Prototype  
10/17/17

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# INTRODUCTION

## **Motivation for the project**

EasyClass is a virtual classroom environment that aims to solve many of the communication related issues that are a consequence of our educational system. Ideally our system allows for question management during a lecture, in a manner where students can have their questions answered without interrupting the lecturer. We decided to implement this system as a responsive web application for use with smartphones as well as desktop computers. This document serves as a user manual for our prototype system.

You may find a live version of our prototype at the following address:

<https://pr.to/9AGB3V/>

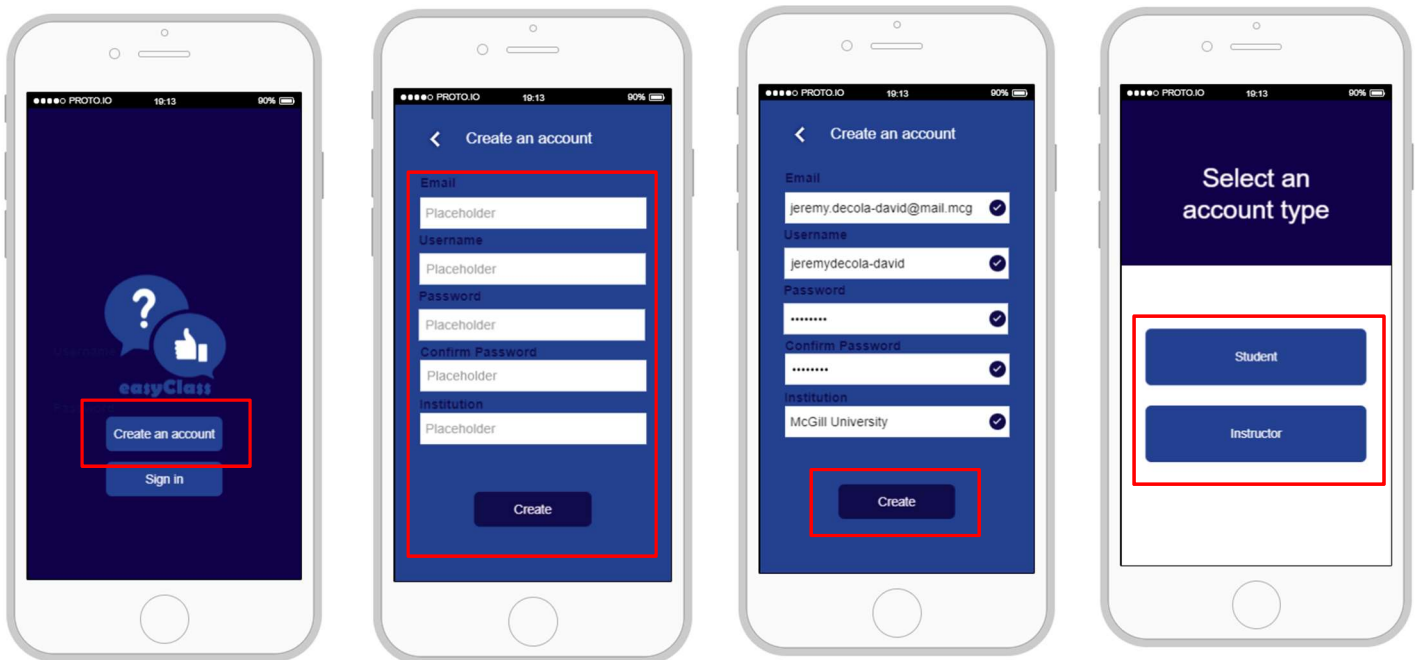
## **Prototype limitations**

This prototype was created with proto.io, a high-fidelity prototype design platform. As such, some functionalities are limited in nature and are merely there for demonstrative purposes. Here is a list of known limitations:

- Clicking on the thumbs-up icon is irreversible
- Data input by the user is lost after changing the page.
- You may only submit one question per page or one answer per question.
- Some functionalities such as “Adding a Classroom” and “Creating a Classroom” are impossible to activate twice as the prototype only allows for one classroom.
- Continued use after pressing on the “Log Out” button may result in strange screen ordering.

# CREATING AN ACCOUNT

Upon opening the app, you are given the option to “Create an account” or “Sign in”. Please click on “Create an account”. (1)



You are now on the “Create an account” page. Fill in the necessary fields and click on “Create”. (2)

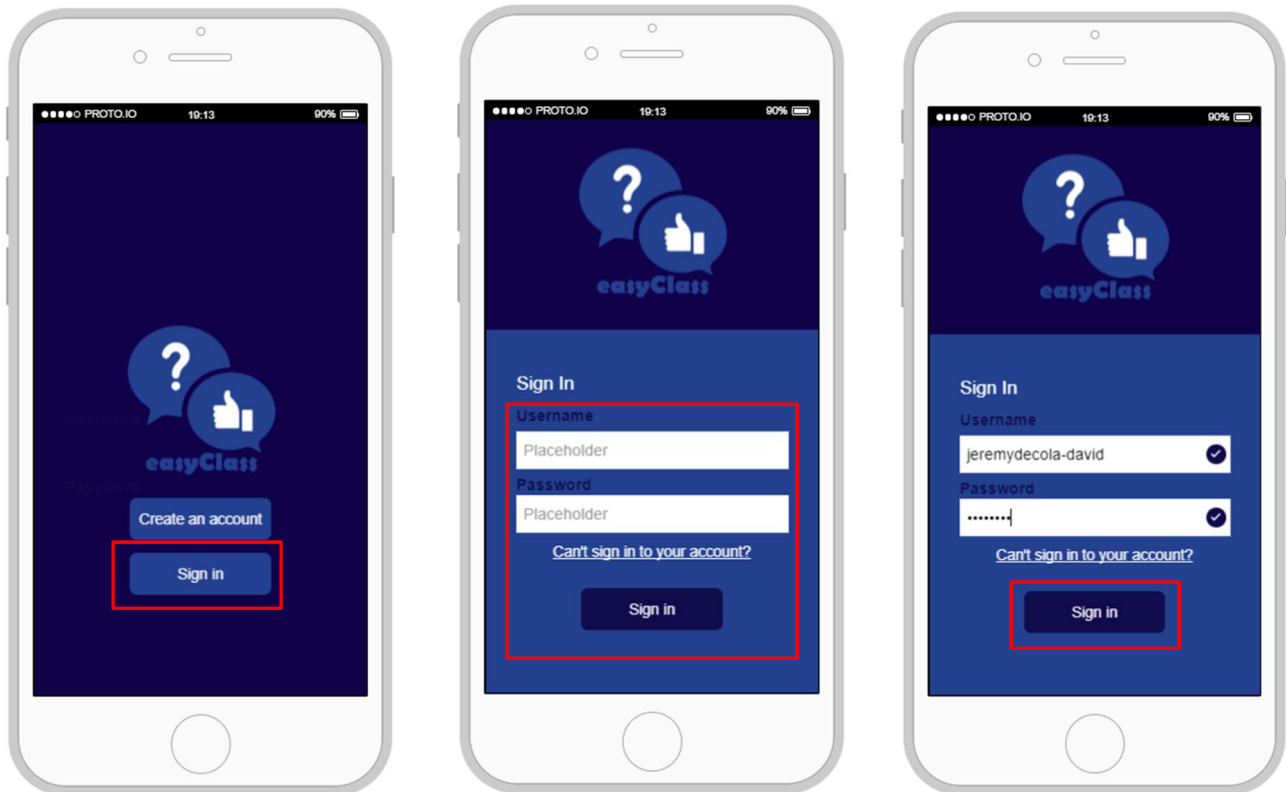
Checkmarks will appear next to the text fields to validate your information. (3)

On the next page you are prompted to select your account type. If you are a student please click on the “Student” button. If you are an instructor , please click on the “Instructor” button. (4)

Congratulations! You have successfully created an account and are now ready to sign in.

# SIGNING IN

Upon opening the app, you are given the option to “Create an account” or “Sign in”. Please click on “Sign in”. (1)



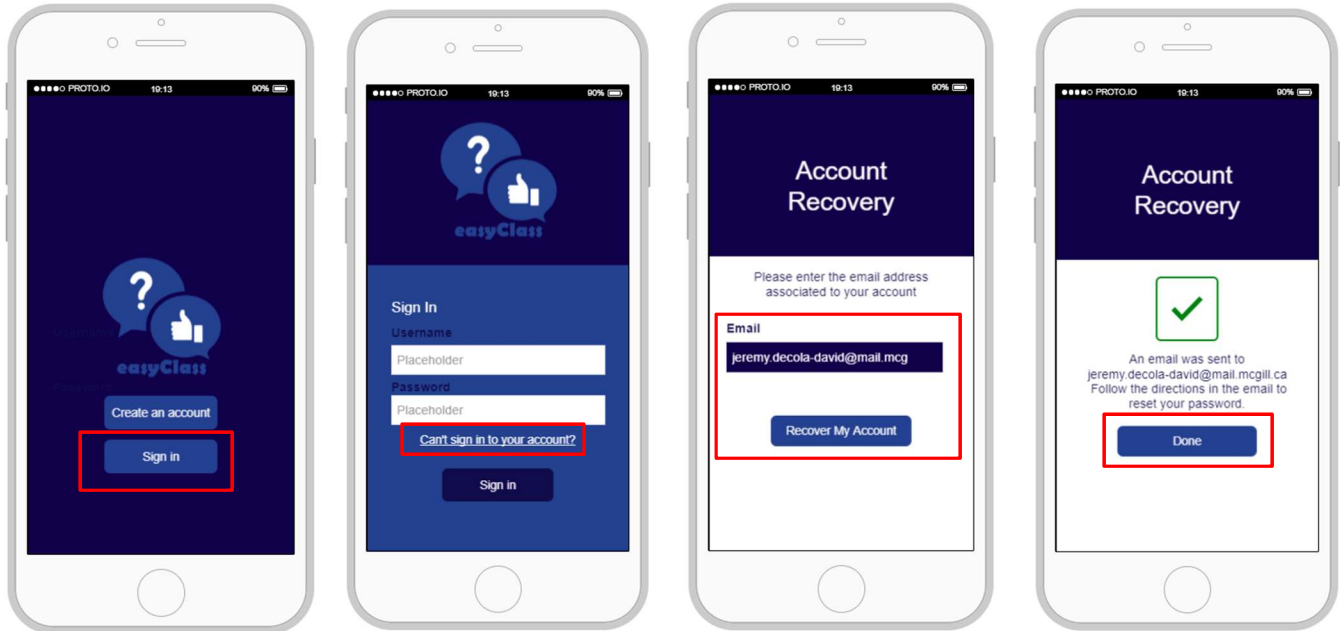
You are now presented with the sign in page. Just enter your account credentials and the system will perform another validation check and present you with checkmarks. (2)

Next, hit the “Sign in” button and you are all set! (3)

# RECOVERING YOUR ACCOUNT

Did you forget your account credentials? We've got you covered. Let's run through the steps for account recovery.

Upon opening the app, you are given the option to "Create an account" or "Sign in". Please click on "Sign in". (1)



Next, click on "Can't sign in to your account?". (2)

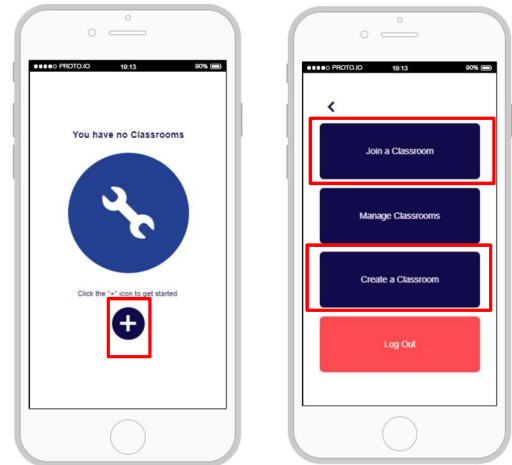
Welcome to the account recovery menu! Just insert the email you used to sign up and click on "Recover My Account". (3)

You should now see a confirmation screen telling you that an email was sent to the specified address. Follow the instructions in the email to reset your password. Click on "Done" to return to the main menu. (4)

# CREATING OR JOINING YOUR FIRST CLASSROOM

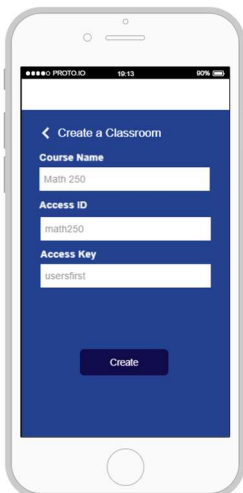
Upon your initial sign in, you will be prompted with a screen telling you “You have no Classrooms”. Click on the “+” button to get started (1)

On the next screen, select “Join a Classroom” if you wish to join an instructor’s classroom, or select “Create a Classroom” if you would like to create your own classroom. (2)



## Creating a classroom

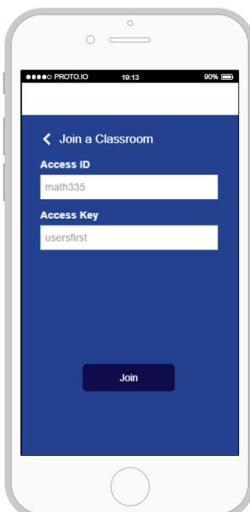
Instructors will create an Access Key and an Access ID which the students can use to join their classroom. After naming their course and choosing the aforementioned credentials, click on “Create”. (3)



## Joining a classroom

Enter the Access Key and ID that was provided by your instructor and click on “Join”. (4)

***You have successfully set up your first Classroom.***



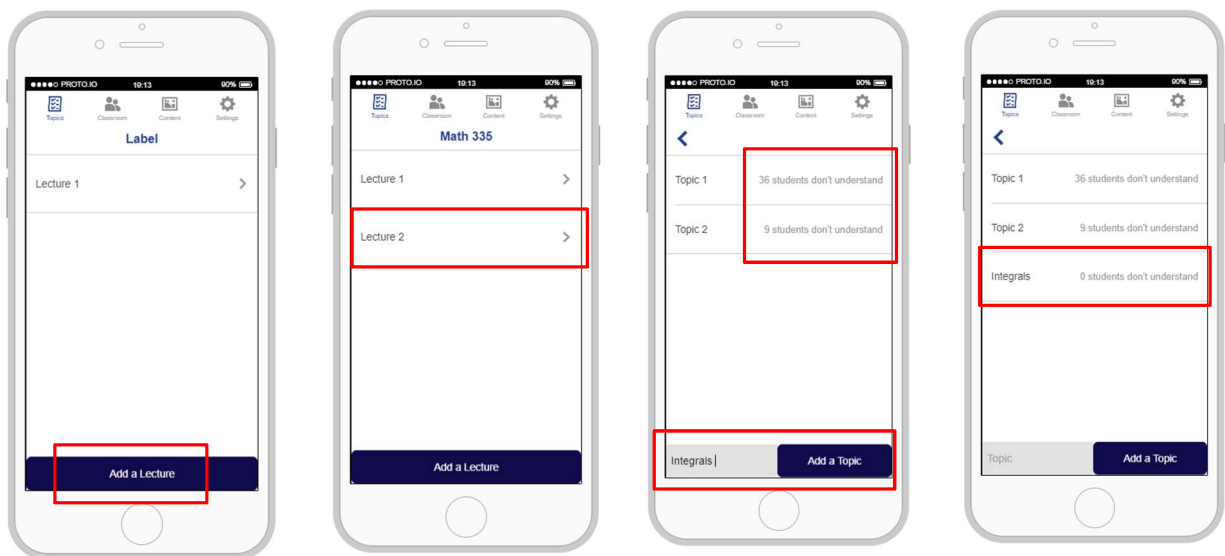
# TOPICS

The topic tab provides the students with an interface where they can indicate which topics they're struggling to grasp and relay this to the teacher. This allows the instructor to allocate more attention to the topics that the students don't understand.

## Instructor Interface

You may add a Lecture by clicking on the “Add a Lecture” button. (1,2)

Clicking on a specific lecture allows you to access its topic list. Here you can see how many students have indicated that they don't understand a specific topic (3) and you can also add a topic by entering the topics name in the text field next to the “Add a Topic” button and then clicking on the button. (4)



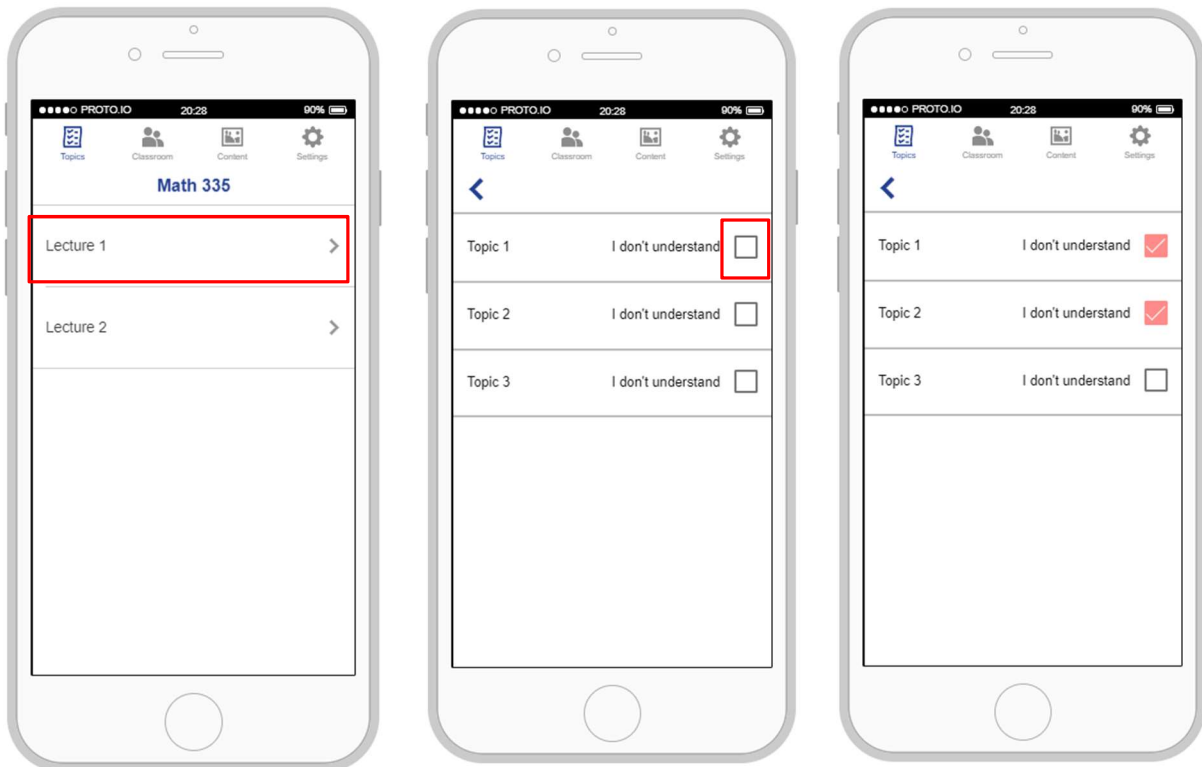


# TOPICS

## Student Interface

Clicking on a specific lecture allows you to access its topic list. (1,2)

Here you can indicate that you don't understand a specific topic by tapping on the checkbox associated to that specific topic. (3)

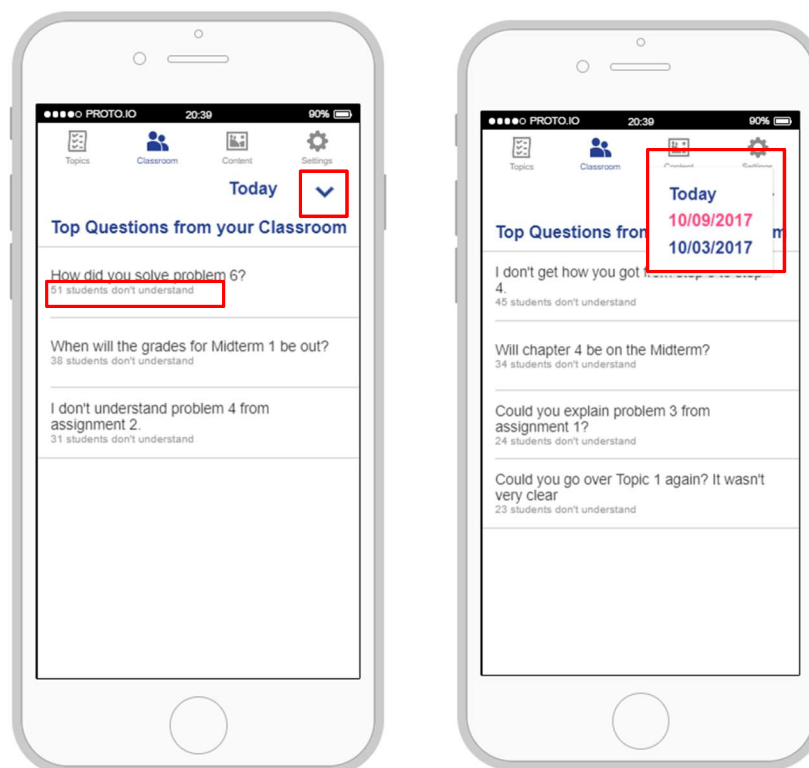


# CLASSROOM

The Classroom tab provides an interface where students can ask and reply to questions anonymously. This is done through a daily chat interface. The instructor does not have direct access to the chats. Instead, the professor is only informed of very popular questions that the students have raised a lot of concern over. This way, the instructor only intervenes when the students can't find answer amongst themselves.

## Instructor Interface

You can see the top questions posted on a daily-basis or a lecture-by-lecture basis. The number of students that are struggling with that question is also shown underneath the question. It is possible to switch to another day/lecture by clicking on the drop-down icon next to “Today” and selecting a date where previous discussions occurred.



# CLASSROOM

## Student Interface

You can see and interact with your peers' questions or raise some questions of your own. By clicking on the drop-down icon next to "Today" you can access questions from previous sessions. (1) To ask a question, type your question in the text field next to the "Ask" button and then click on the "Ask" button to submit your question. (2)



To reply to a question, click on the dialog bubble underneath the question and you will be brought to a new page. Here you can type your reply in text field next to the "Reply" button and then click on the "Reply" button to send your reply. (2)

# CLASSROOM

By clicking the “thumbs up” icon you can indicate your appreciation for the question whilst also indicating interest in an answer. Clicking “thumbs up” on an answer also allows for peer review of answers. (3)

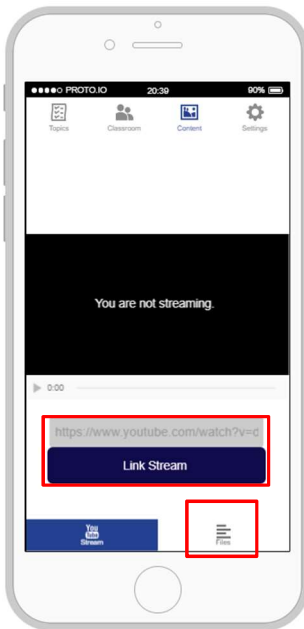
By clicking the “flag” icon you can report a question or reply as offensive. (4) Comments that receive many flags are automatically hidden or deleted.



# CONTENT

The content tab allows the instructor to share content with the students. This allows for embedded YouTube streaming/video and for a file repository.

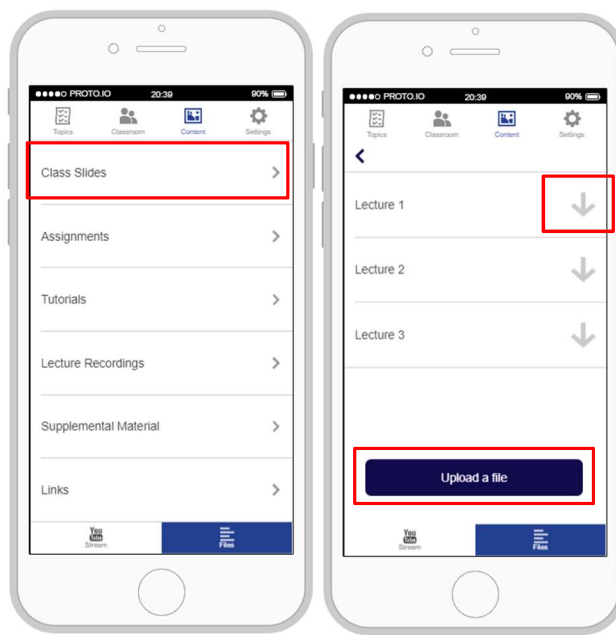
## Instructor Interface



You can link a YouTube livestream or video by posting the appropriate link in the text field above the “Link Stream” button and then clicking on the “Link Stream” button. (1)

By clicking on the “Files” tab on the bottom right, you can upload Class Slides, Assignments, Tutorials, Lecture Recordings, Supplemental Material as well as Links by clicking on the appropriate section and then clicking on the “Upload a file” button. (2,3)

You can download a specific file by clicking on the “down” icon associated with the file. (3)



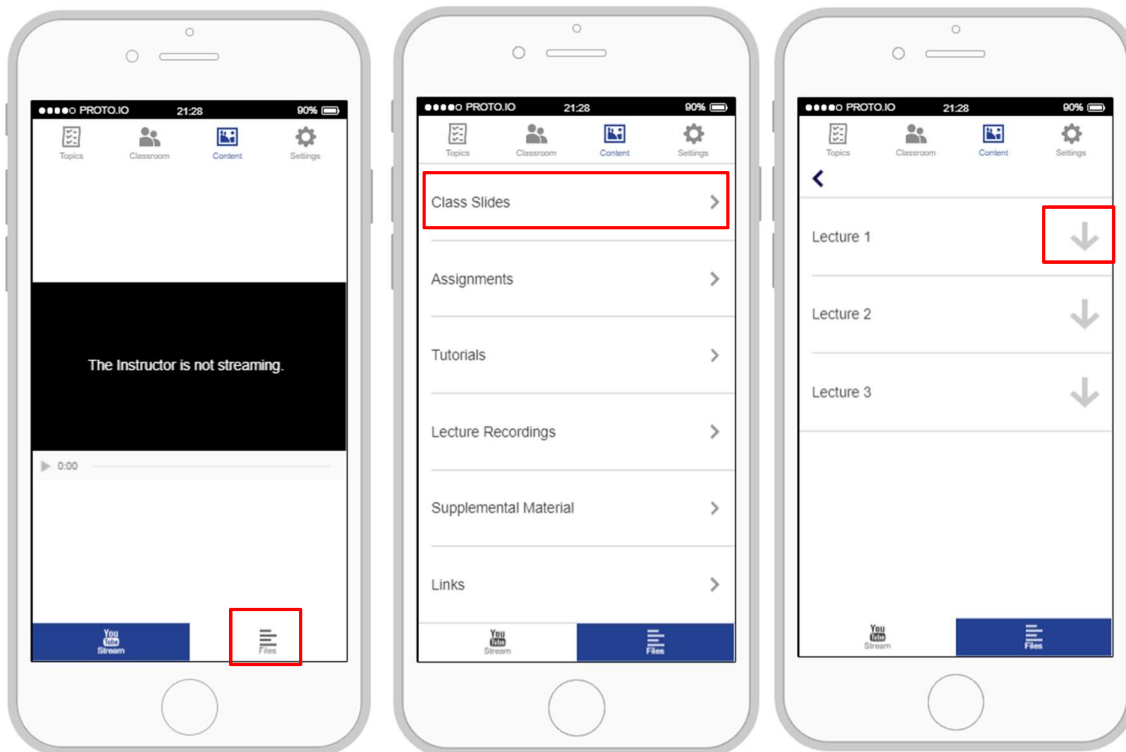
# CONTENT

## Student Interface

Here you can view the instructor's YouTube livestreams or videos. (1)

By clicking on the “Files” tab on the bottom right, you can access Class Slides, Assignments, Tutorials, Lecture Recordings, Supplemental Material as well as Links by clicking on the appropriate section. (2)

You can download a specific file by clicking on the “down” icon associated with the file. (3)



# SETTINGS

In the settings tab, you can:

- Join another classroom by clicking on the “Join a Classroom” button.
- Leave/delete your current classroom through the management options accessed by clicking on the “Manage Classrooms” button.
- Create a new classroom by clicking on the “Create a Classroom” button.
- Log out and end your session by clicking on the “Log Out” button.

