# Tentative GUI Mockups

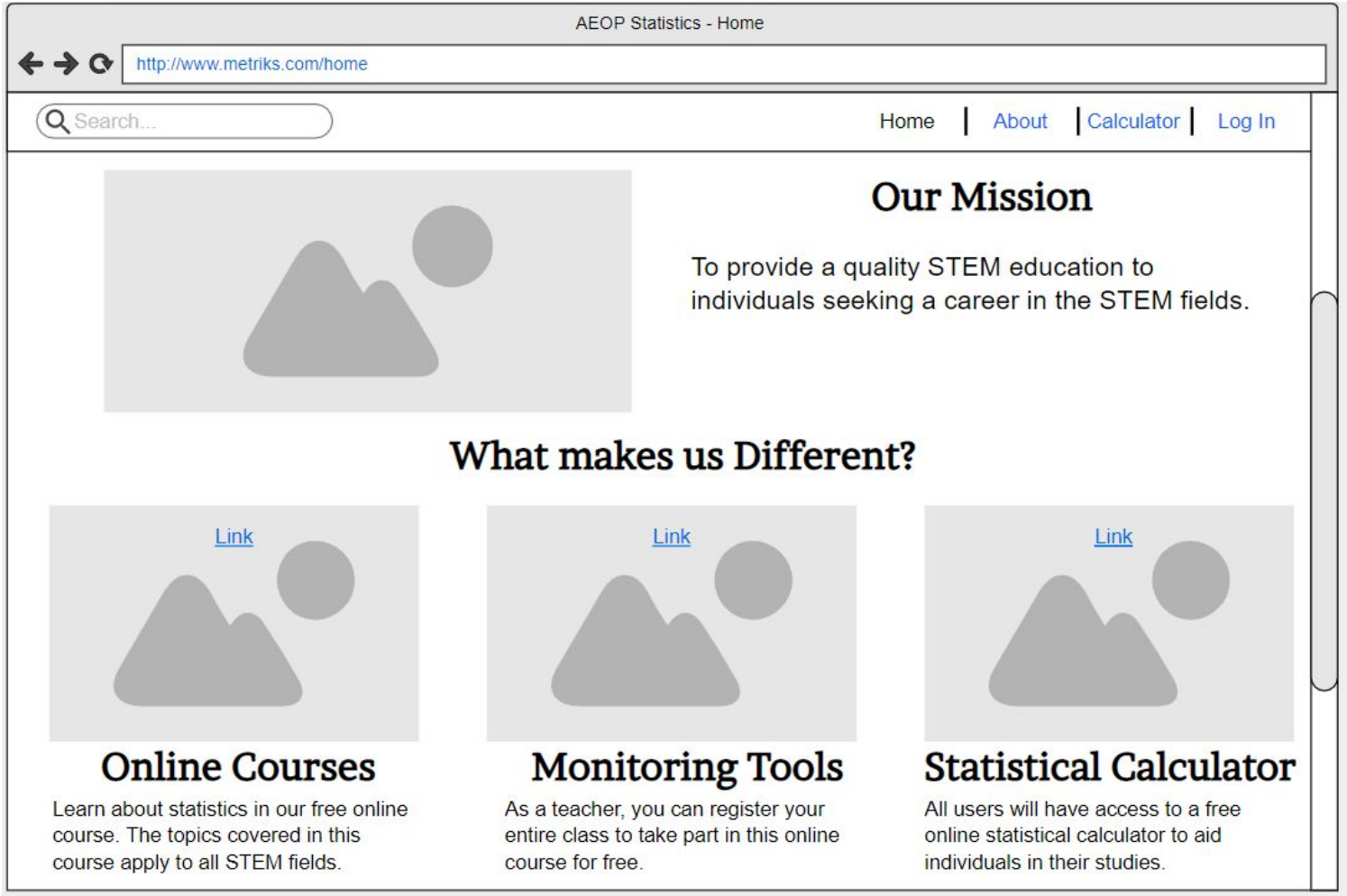
## Project Stat

MetriKs Amérique

DREXEL UNIVERSITY
School of
Education

DREXEL UNIVERSITY
College of
Computing &
Informatics

# Homepage


AEOP Statistics - Home
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Our Mission
To provide a quality STEM education to individuals seeking a career in the STEM fields.
What makes us Different?
Link
Online Courses
Learn about statistics in our free online course. The topics covered in this course apply to all STEM fields.
Link
Monitoring Tools
As a teacher, you can register your entire class to take part in this online course for free.
Link
Statistical Calculator
All users will have access to a free online statistical calculator to aid individuals in their studies.

# About Us

AEOP Statistics - About Us

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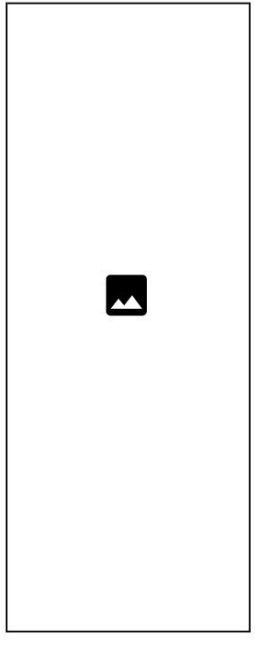
# About Us

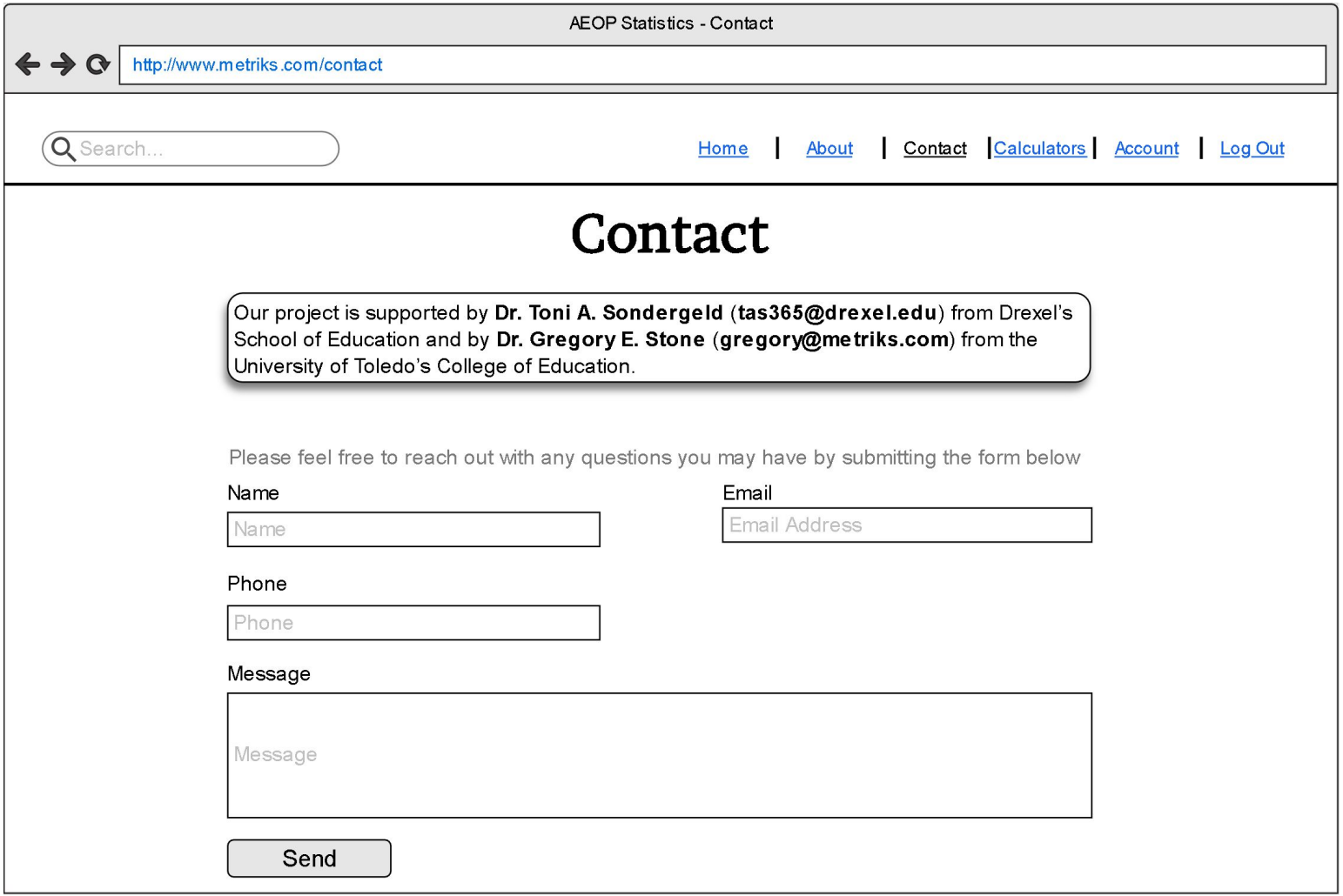
Partnered with the Army Educational Outreach Programs (AEOP), our project will aim to provide STEM enrichment opportunities to middle school aged students to adults, especially those that are educationally disadvantaged. With individuals in science, technology, engineering, and mathematical fields underrepresented, AEOP has the vision of increasing these numbers by providing competitions, research lab apprenticeships, and scholarships within the STEM field to keep individuals competitive and engaged. Despite their attempts to bring these numbers up, according to annual AEOP evaluation data, reports have indicated that many students that participate in these programs are from underprivileged urban areas and do not have access to strong research design and statistical instruction necessary to fully utilize these opportunities.



Our project is to create a multi-module web interface that will provide interactive content, teaching statistics on a easy-to-use platform as a free, online educational resource. With this implemented, we can provide the teachings necessary for students participating in AEOP and hopefully eliminate the knowledge gap of statistics in particular. On our website, we will be providing lessons to teach the content, labs to reinforce the learning, and quizzes to test their understanding of the many modules that we will be available.

Contact Us!

# Contact Us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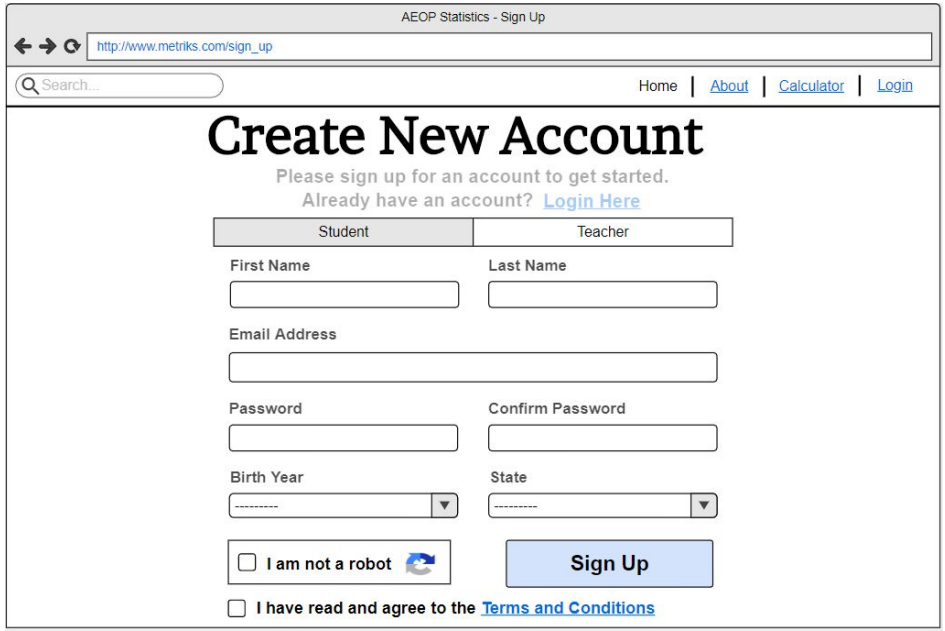
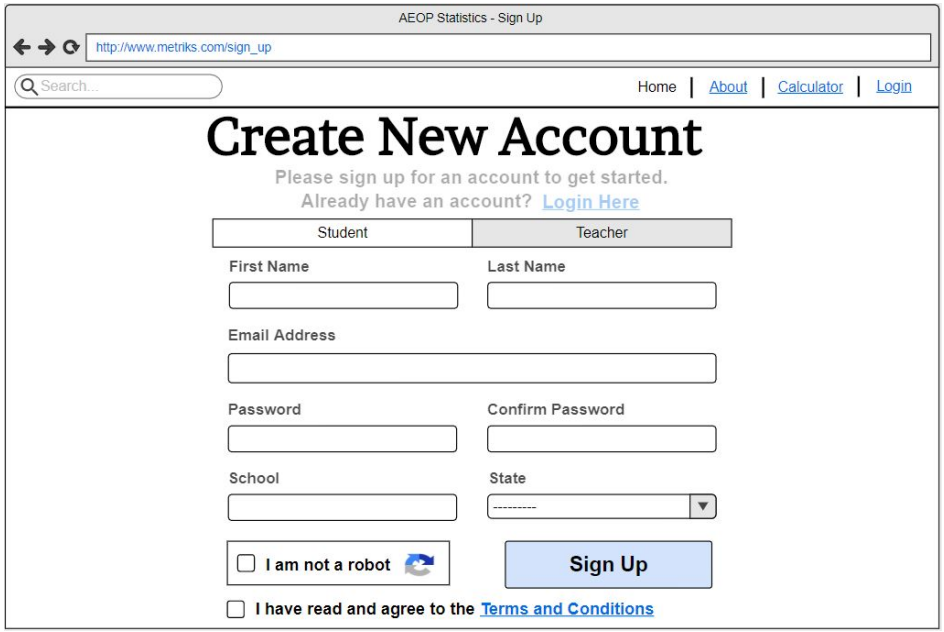
Our project is supported by Dr. Toni A. Sondergeld (tas365@drexel.edu) from Drexel's School of Education and by Dr. Gregory E. Stone (gregory@metriks.com) from the University of Toledo's College of Education.
Please feel free to reach out with any questions you may have by submitting the form below
Name
Name
Email
Email Address
Phone
Phone
Message
Message
Send

# Sign Up

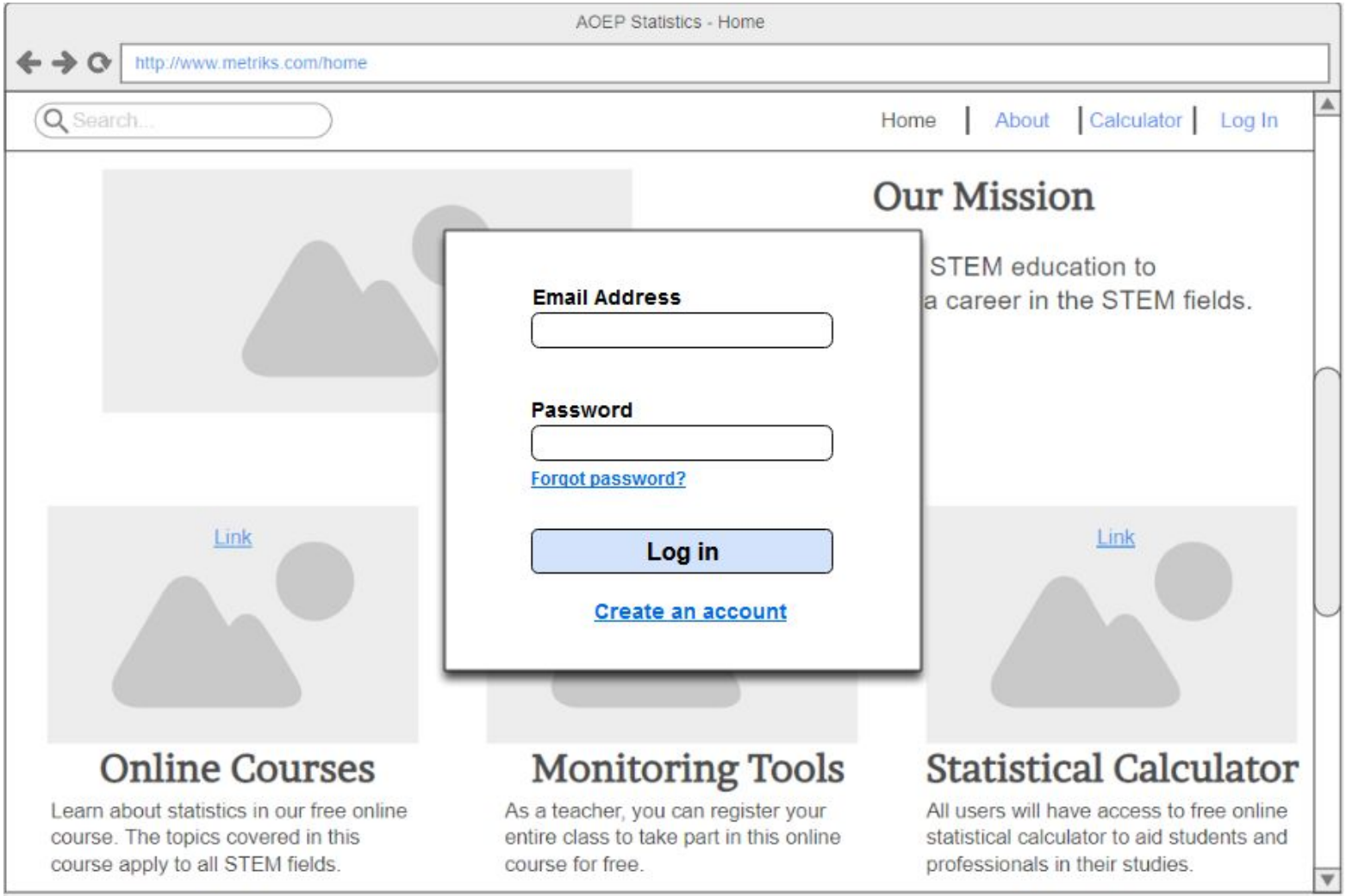



Student




Teacher

# Login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STEM education to
a career in the STEM fields.
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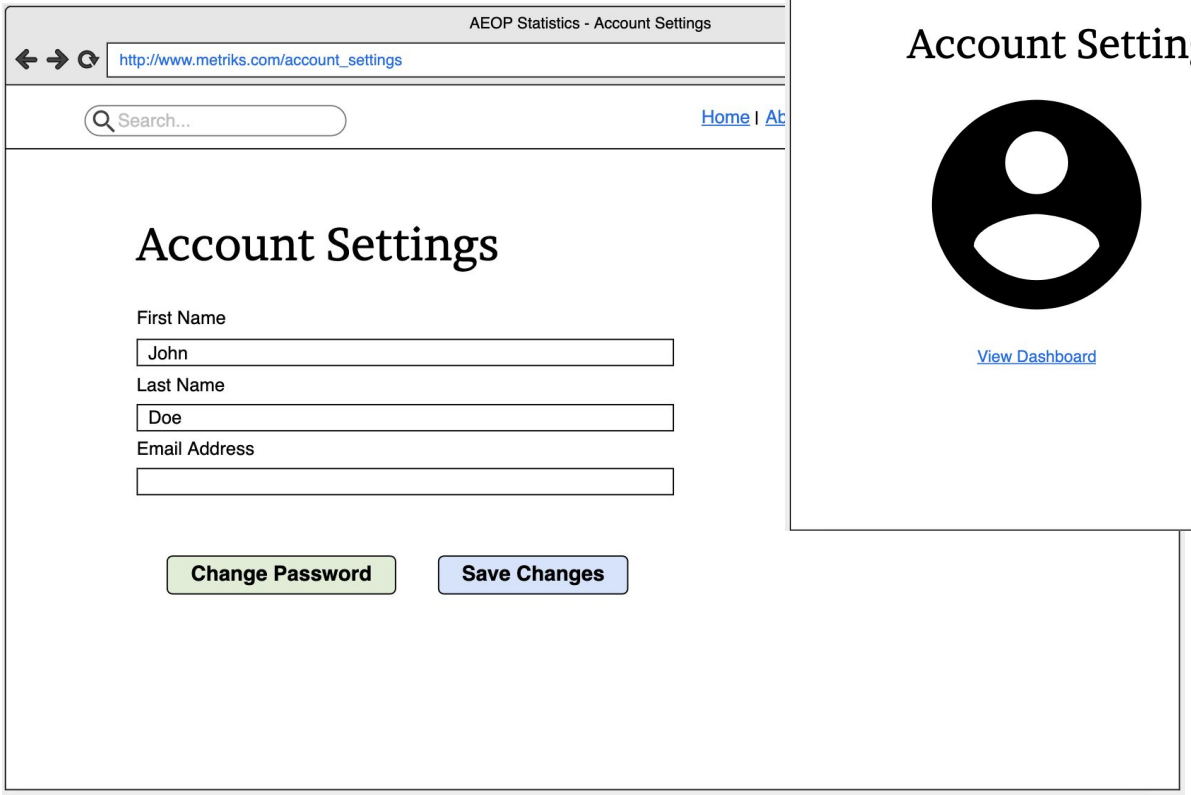
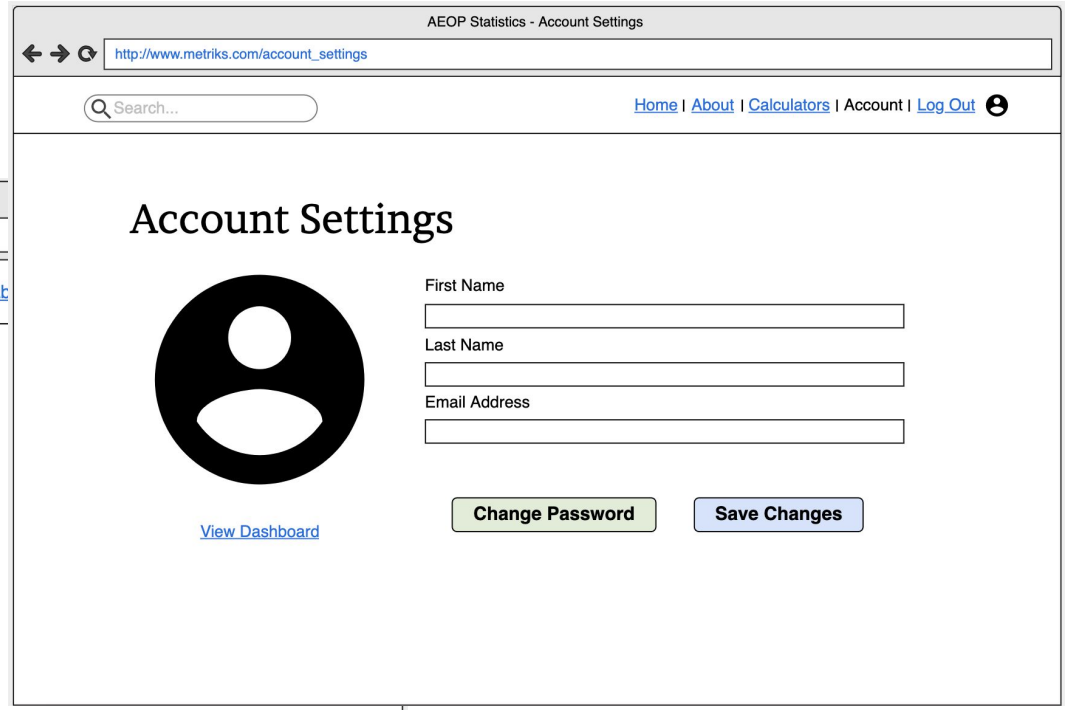
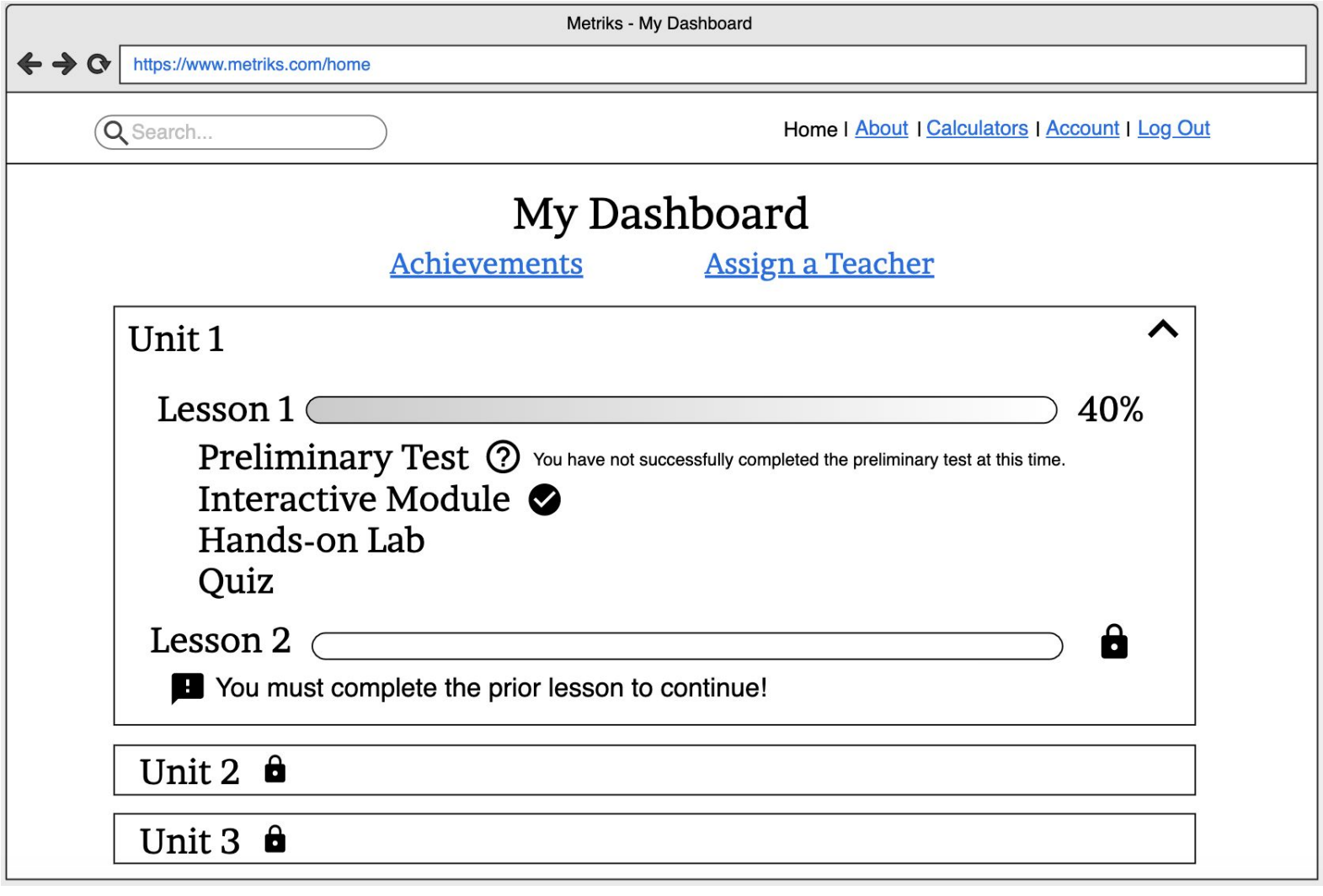
Password
Forgot password?
Log in
Create an account
Link
Link
Online Courses
Learn about statistics in our free online course. The topics covered in this course apply to all STEM fields.
Monitoring Tools
As a teacher, you can register your entire class to take part in this online course for free.
Statistical Calculator
All users will have access to free online statistical calculator to aid students and professionals in their studies.

# Account Settings



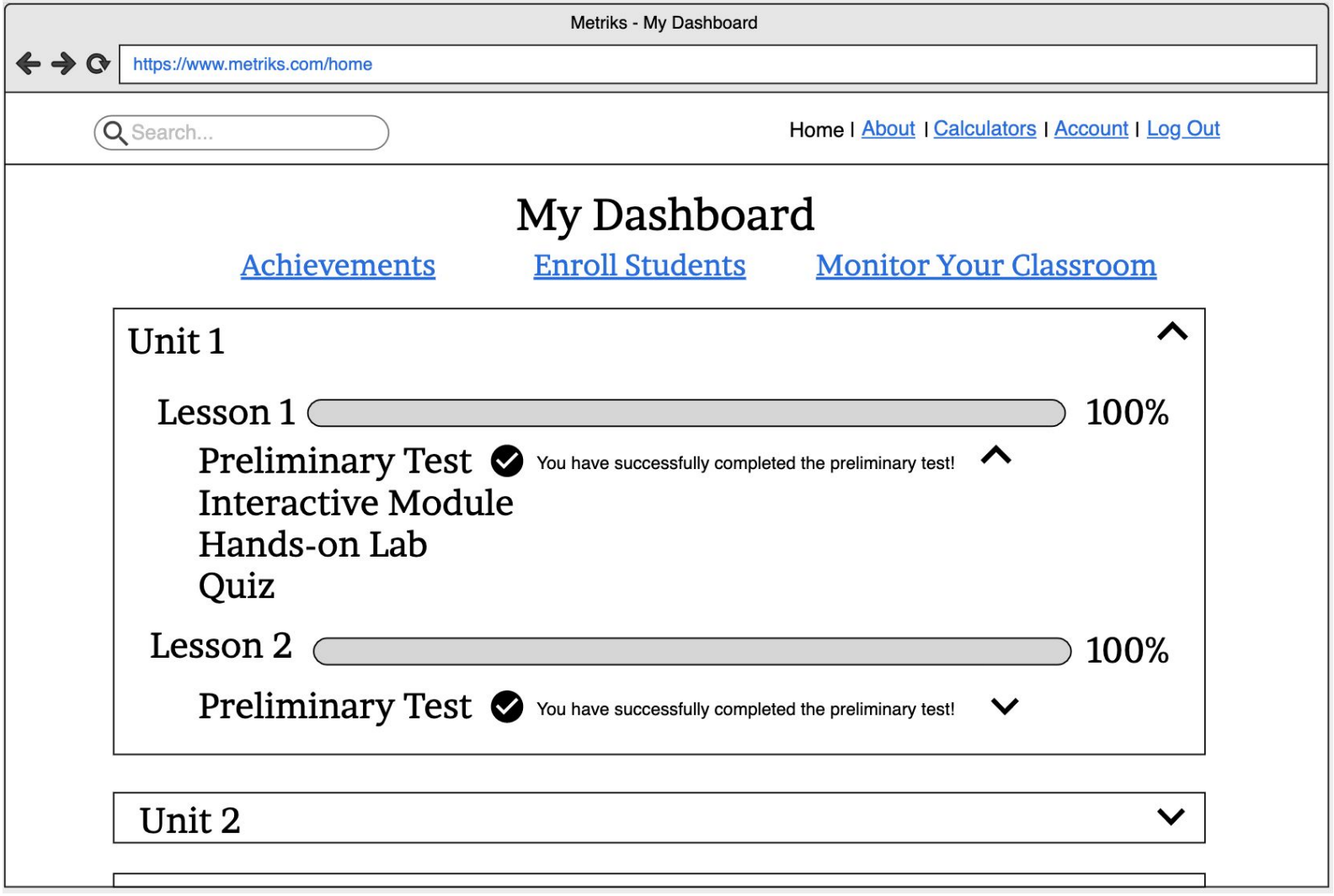



# Student Dashboard



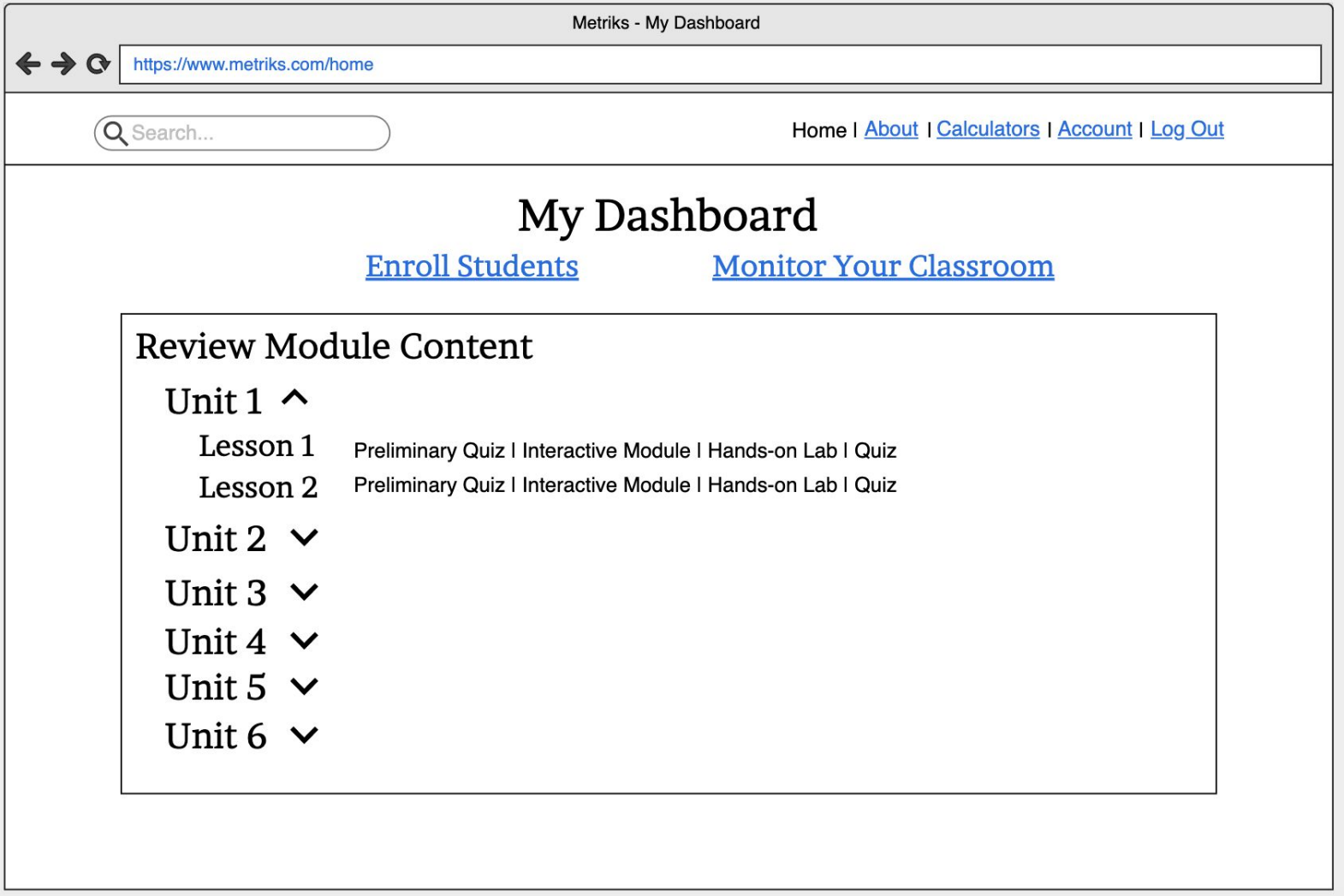
Teacher Dashboard

Ver. 1
Can take course

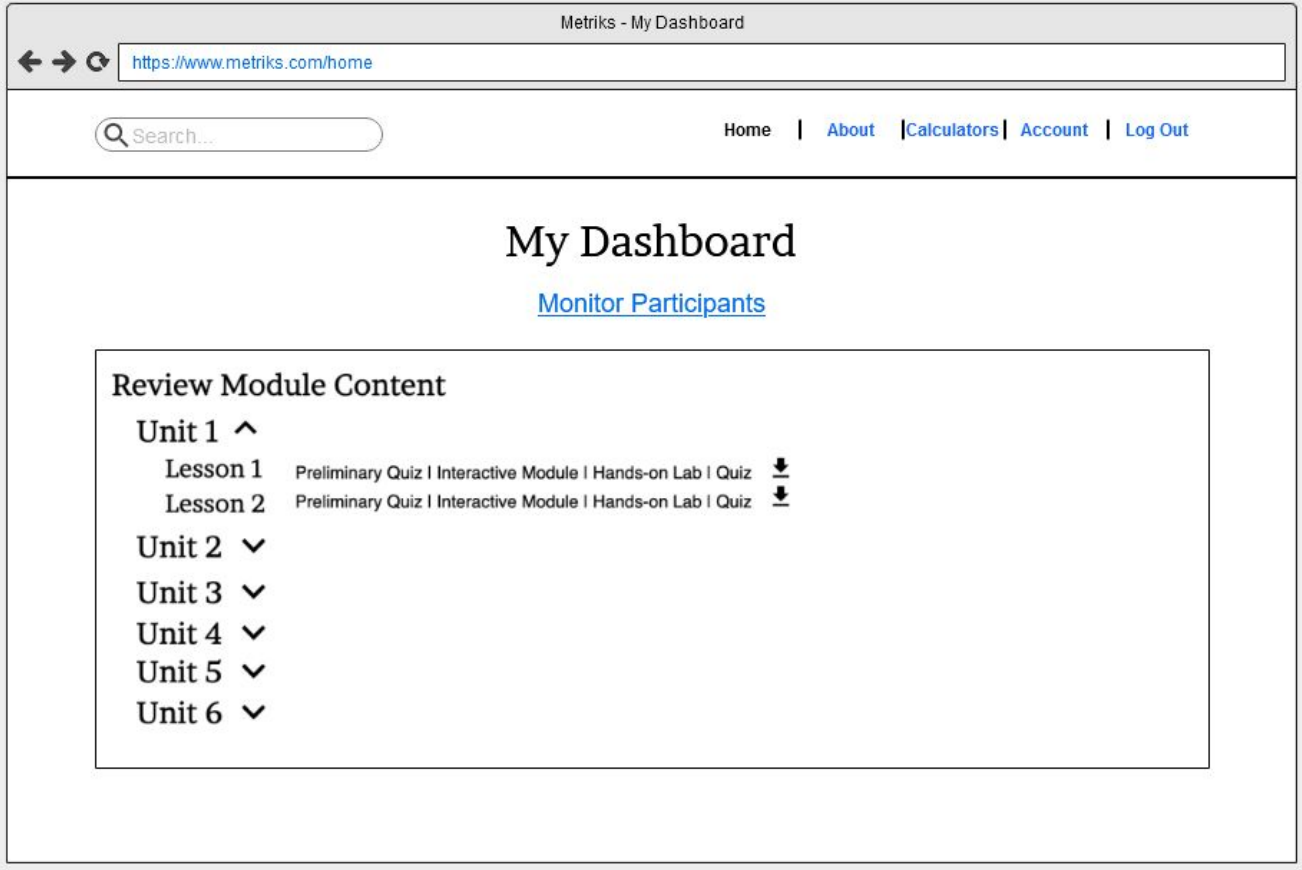


Teacher Dashboard

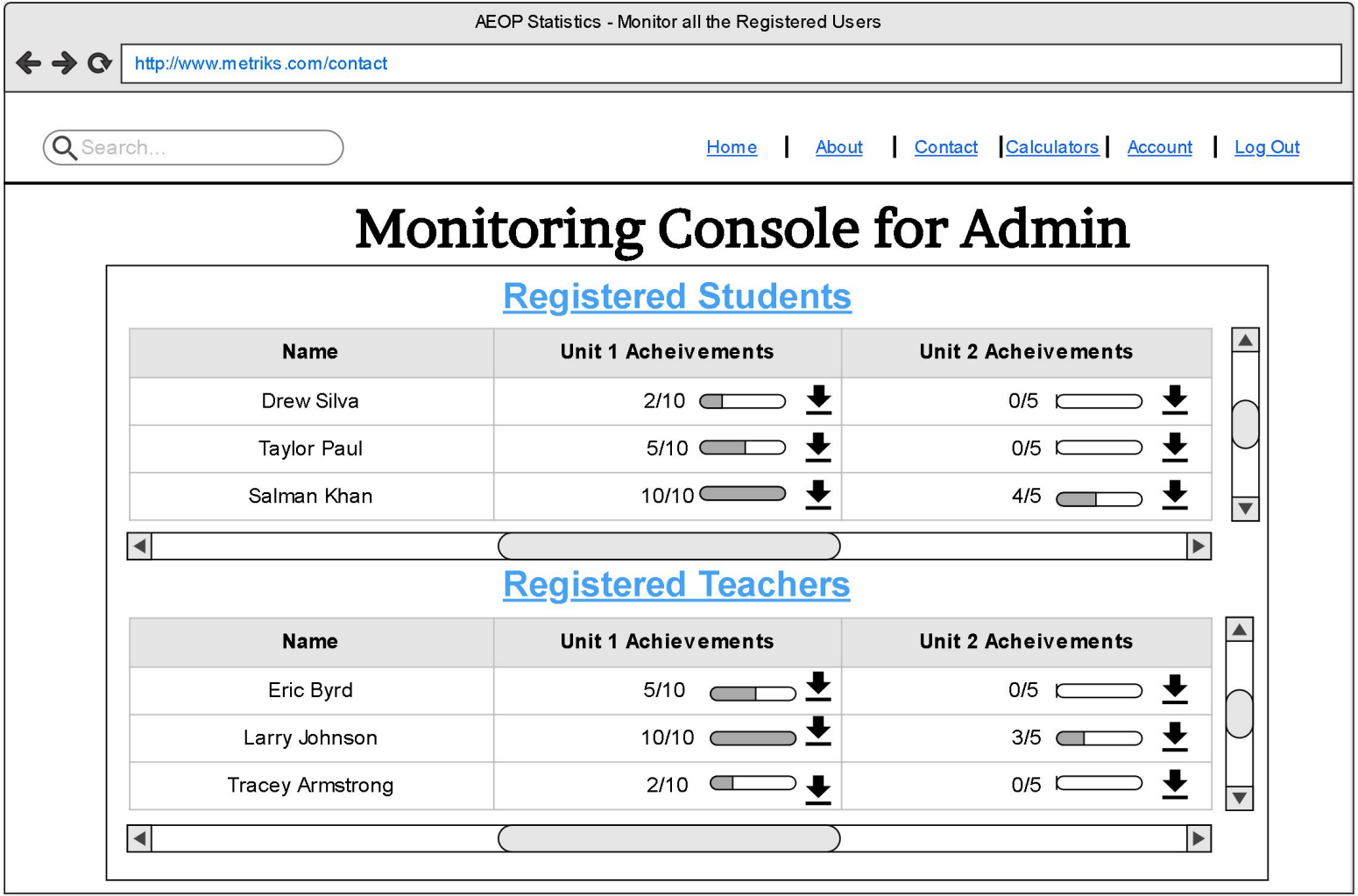
Ver. 2
Can't take course



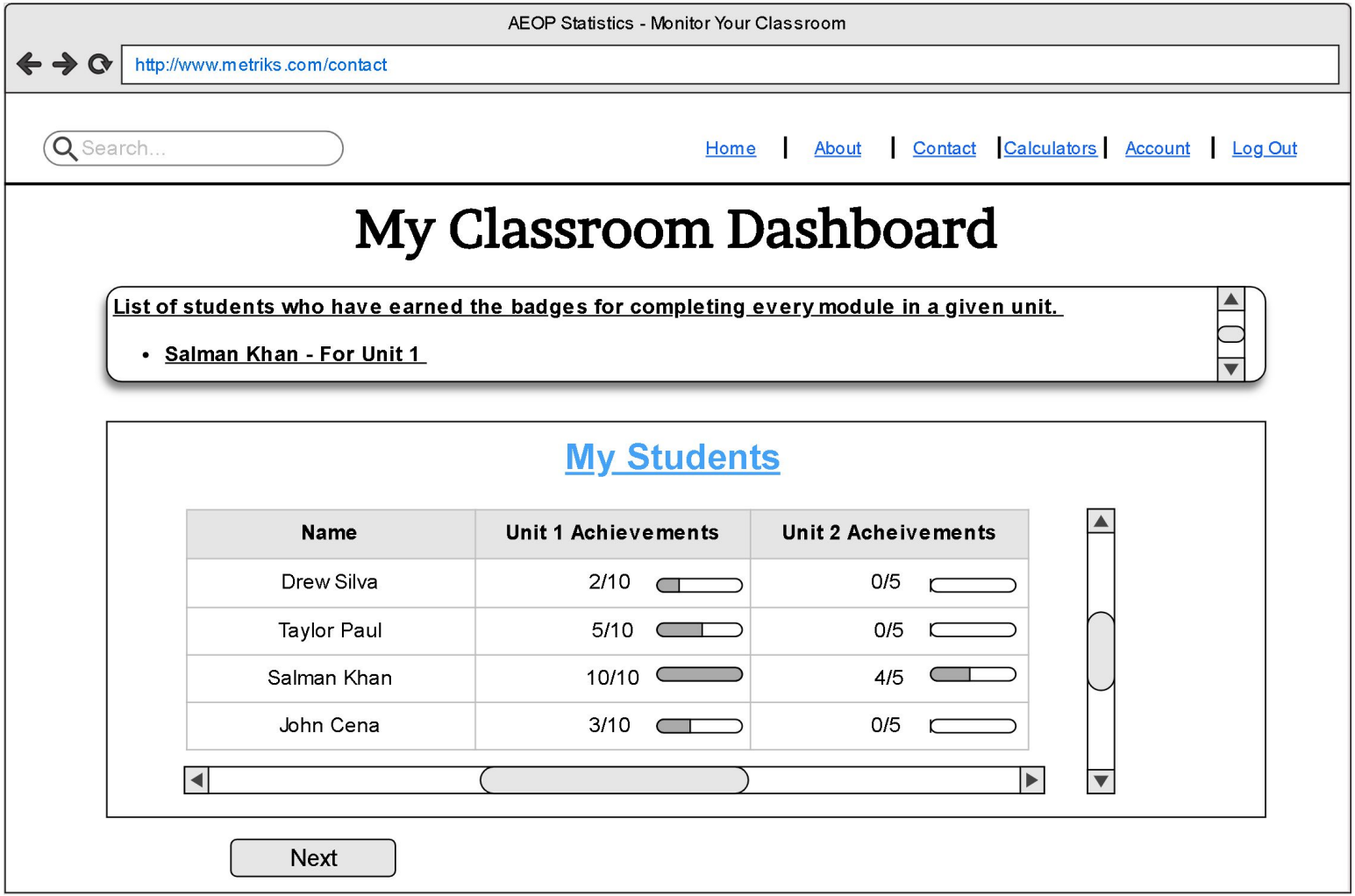
# Admin Dashboard



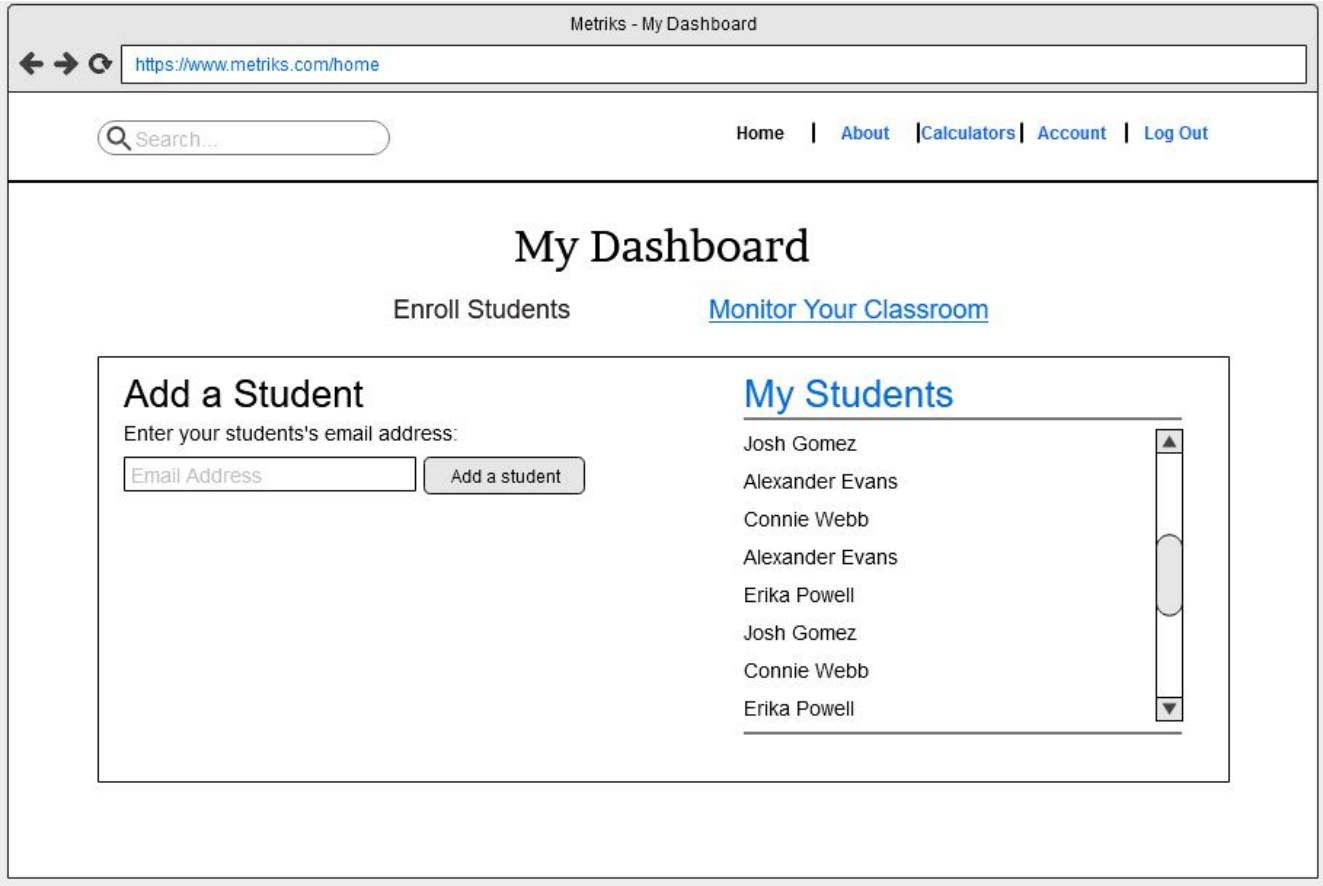
Admin Monitoring Page



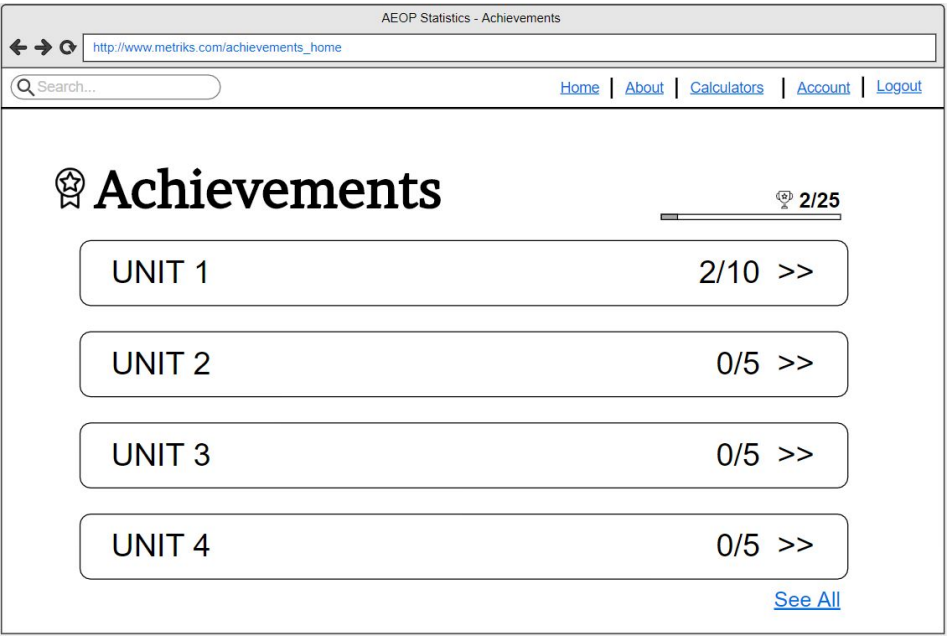
Teacher Monitoring Page

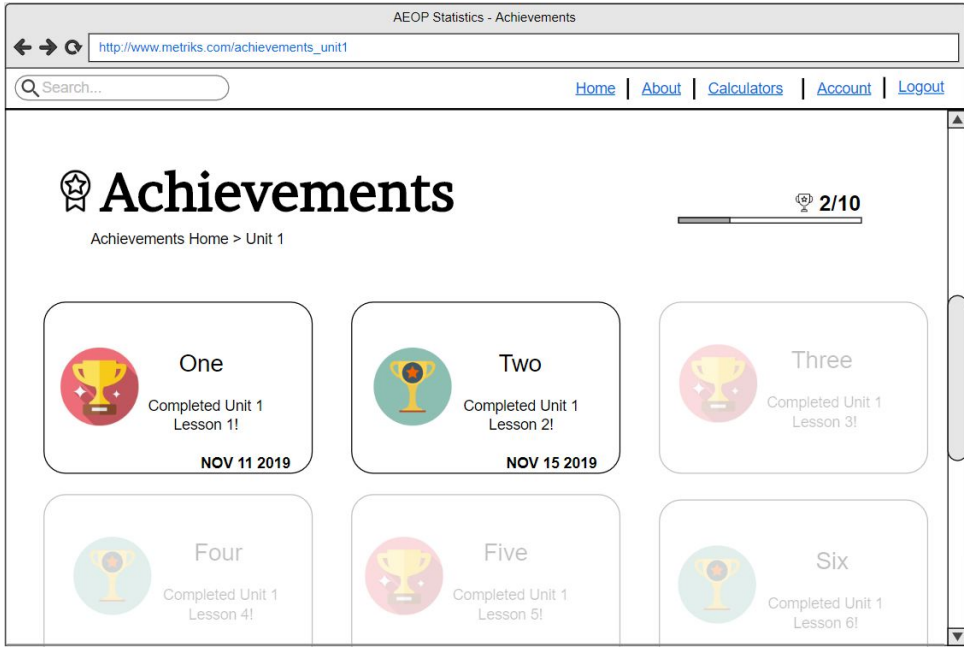


# Class Registration For Teachers

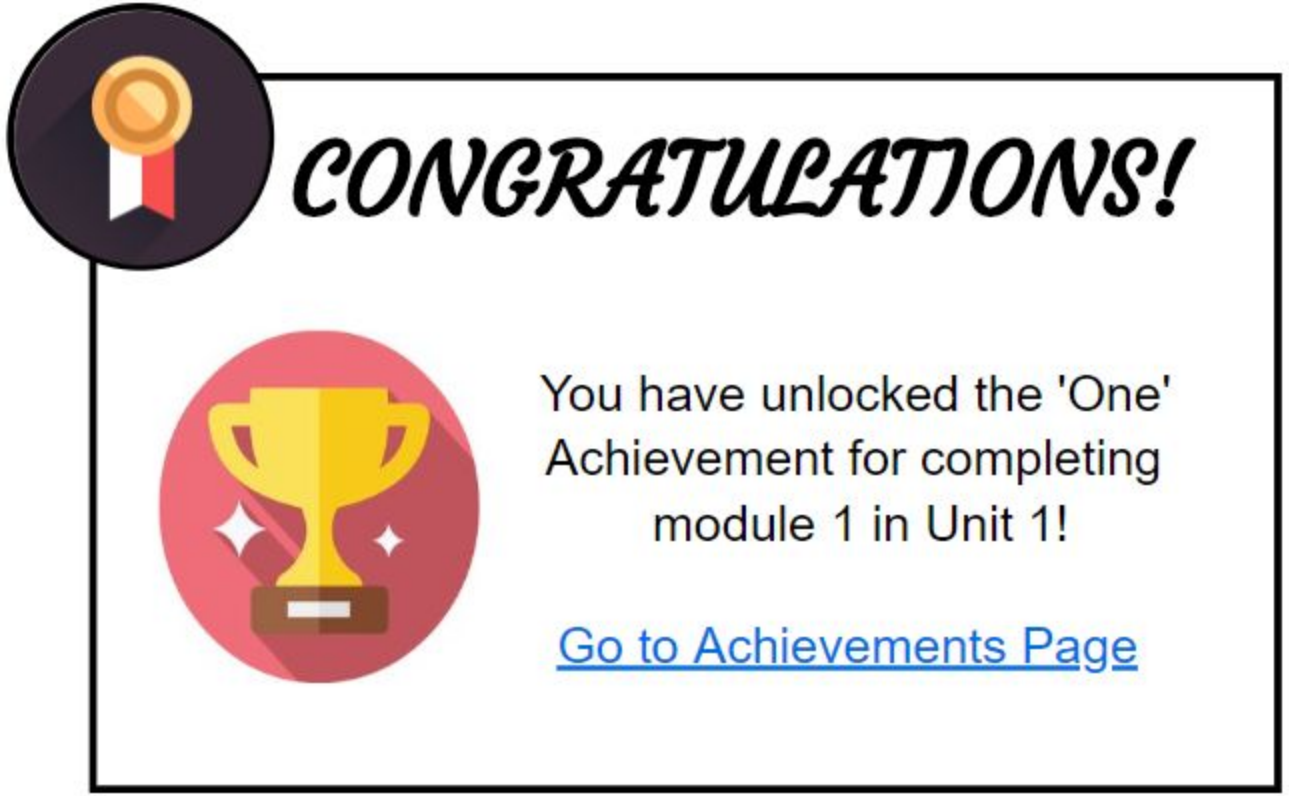


# Achievements Page

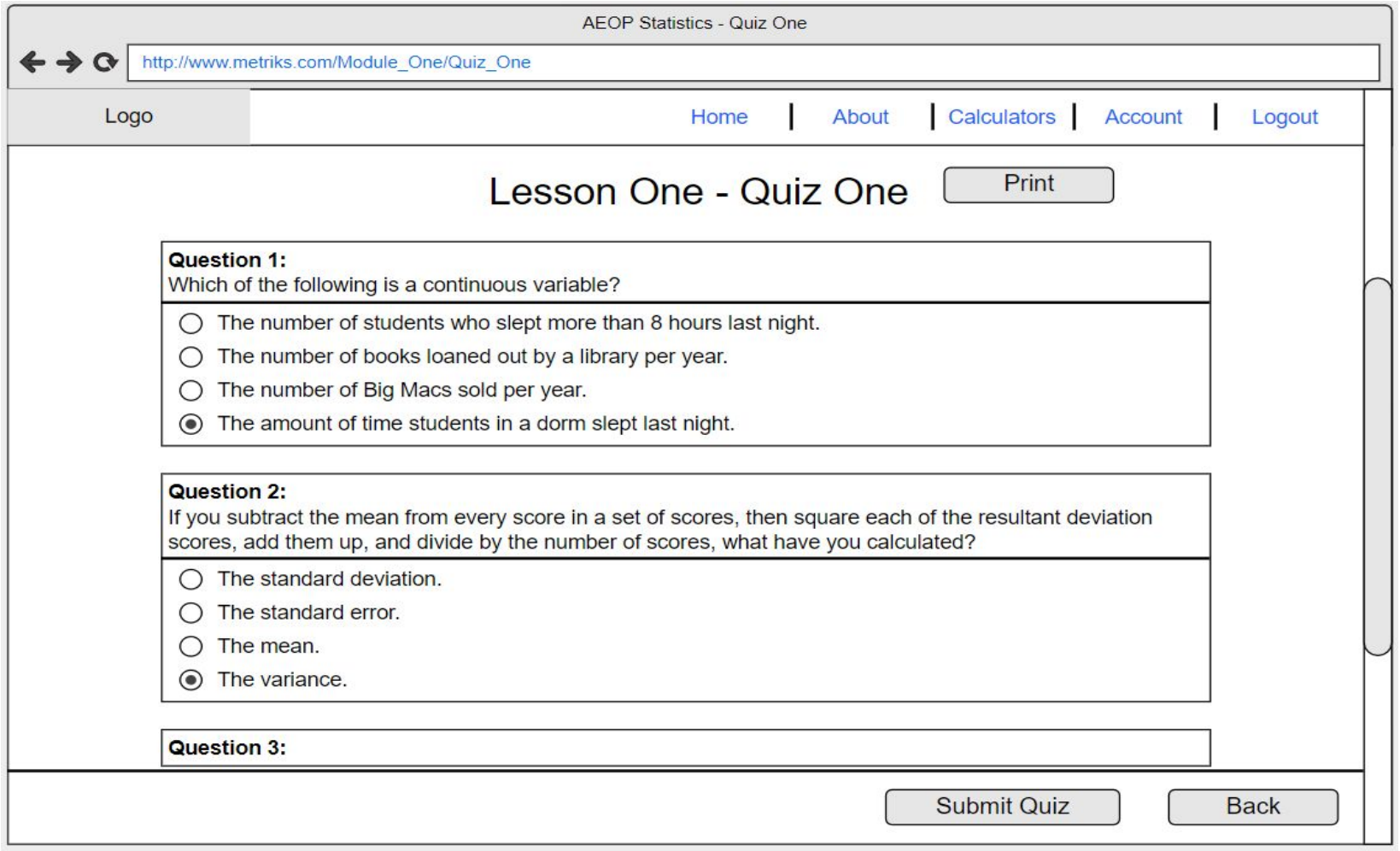


Pop-Up Window For Achievements



# Quizzes


AEOP Statistics - Quiz One
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Lesson One - Quiz One
Print
Question 1:
Which of the following is a continuous variable?
The number of students who slept more than 8 hours last night.
The number of books loaned out by a library per year.
The number of Big Macs sold per year.
The amount of time students in a dorm slept last night.
Question 2:
If you subtract the mean from every score in a set of scores, then square each of the resultant deviation scores, add them up, and divide by the number of scores, what have you calculated?
The standard deviation.
The standard error.
The mean.
The variance.
Question 3:
Submit Quiz
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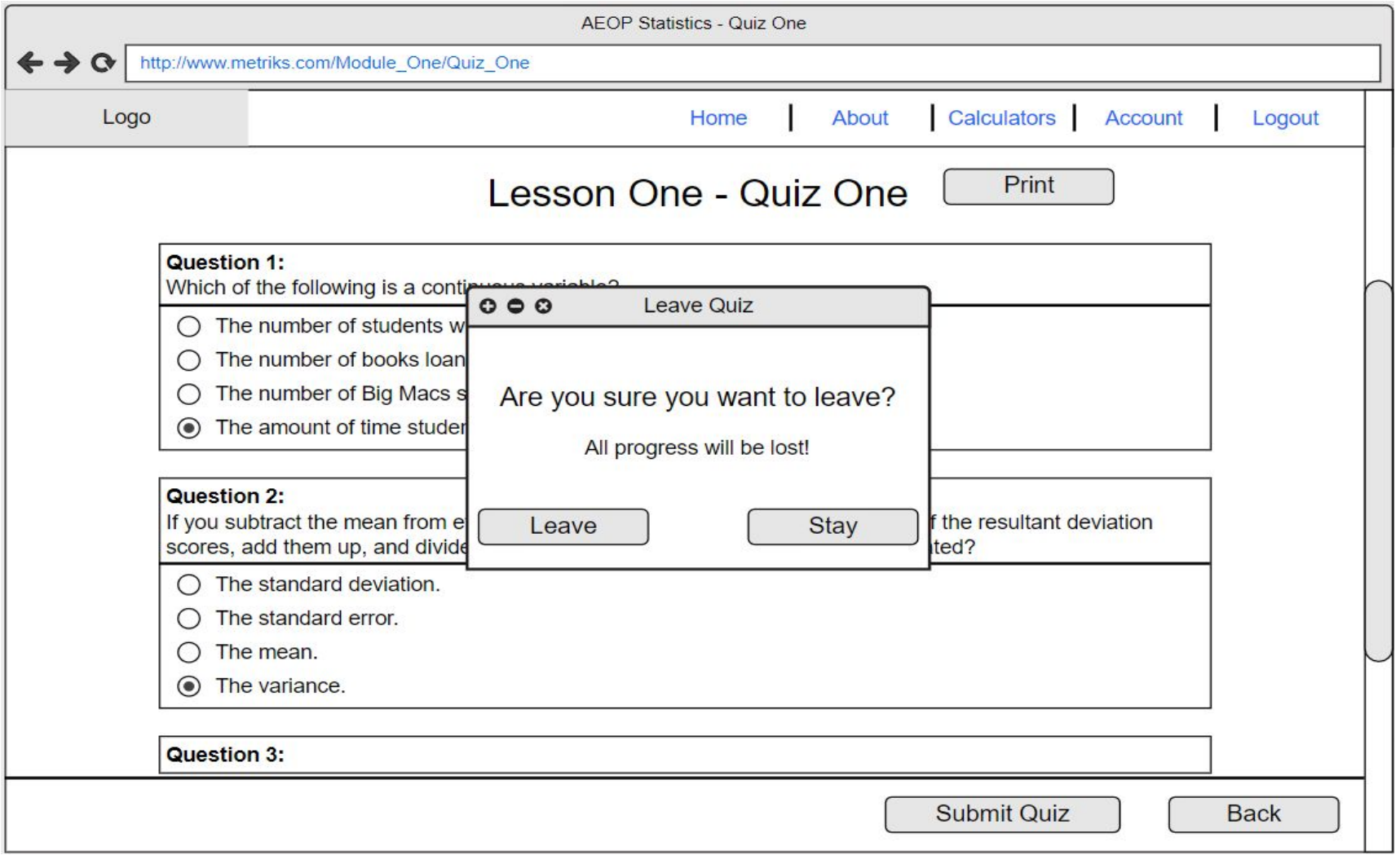
Quiz
Quit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Print
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Which of the following is a continuous variable?
The number of students w
The number of books loan
The number of Big Macs s
The amount of time studer
Leave Quiz
Are you sure you want to leave?
All progress will be lost!
Leave
Stay
Question 2:
If you subtract the mean from e
f the resultant deviation
scores, add them up, and divide
ted?
The standard deviation.
The standard error.
The mean.
The variance.
Question 3:
Submit Quiz
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Labs

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# Lesson One - Lab One

Print

The results of your statistical analyses help you to understand the outcome of your study, e.g., whether or not some variable has an effect, whether variables are related, whether differences among groups of observations are the same or different, etc. Statistics are *tools* of science, *not* an end unto themselves. Statistics should be used to substantiate your findings and help you to say objectively when you have significant results. Therefore, when reporting the statistical outcomes relevant to your study, subordinate them to the actual *biological results*.

Graph about the text

**Question 1:**
Which of the following is a continuous variable?

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- ◯ The number of books loaned out by a library per year.
- ◯ The number of Big Macs sold per year.
- ◉ The amount of time students in a dorm slept last night.

Submit Lab

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# Lab Feedback

AEOP Statistics - Lab One

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## Lesson One - Lab One

Print

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Graph about the text

**Question 1:**
What is the median of the following set of numbers: 3,3,3,4,5,6,7,8,8,9?

X

You selected the answered 3

The correct answer was 5.5

**Explanation**: The median is the midpoint of a distribution. If you've got an even number of scores in your dataset, as in this case, you take the mean of the middle two scores.

7/10 Answers were Correct

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Labs
Quit

AEOP Statistics - Lab One

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# Lesson One - Lab One

Print

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Graph about the text

Leave Lab?

Are you sure you want to leave?

All progress will be lost!

Leave | Stay

**Question 1:**
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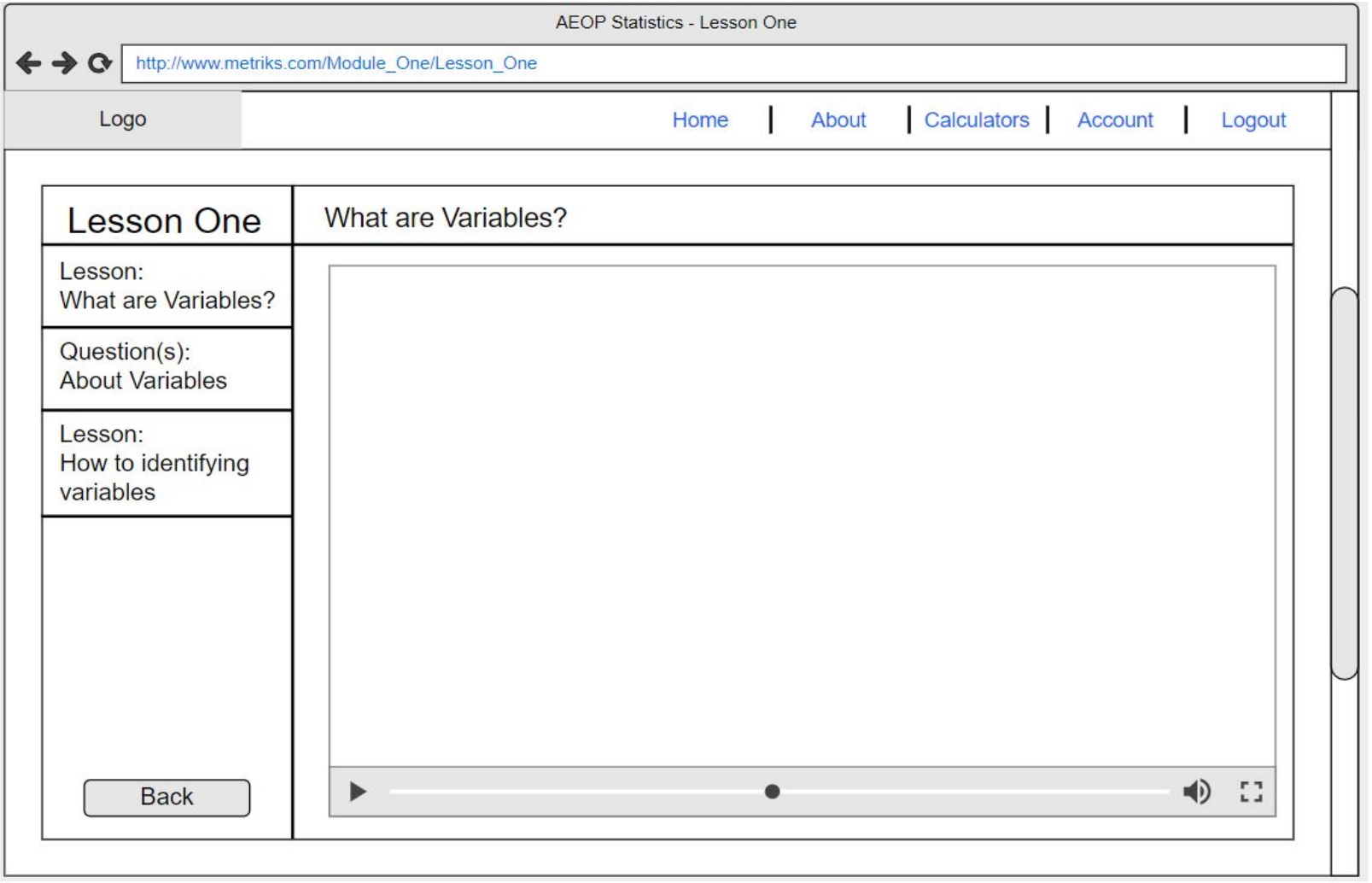
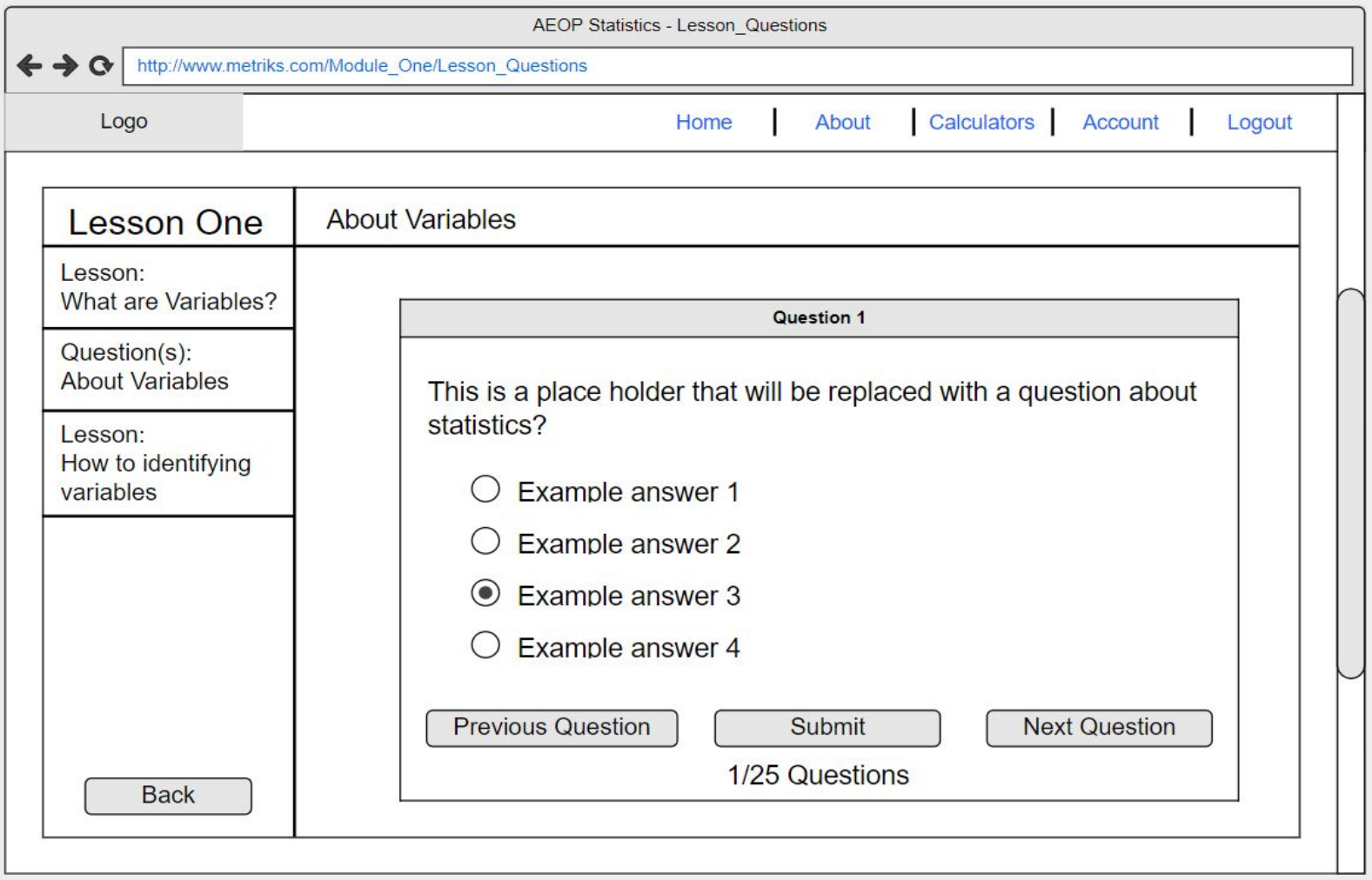
Submit Lab | Back

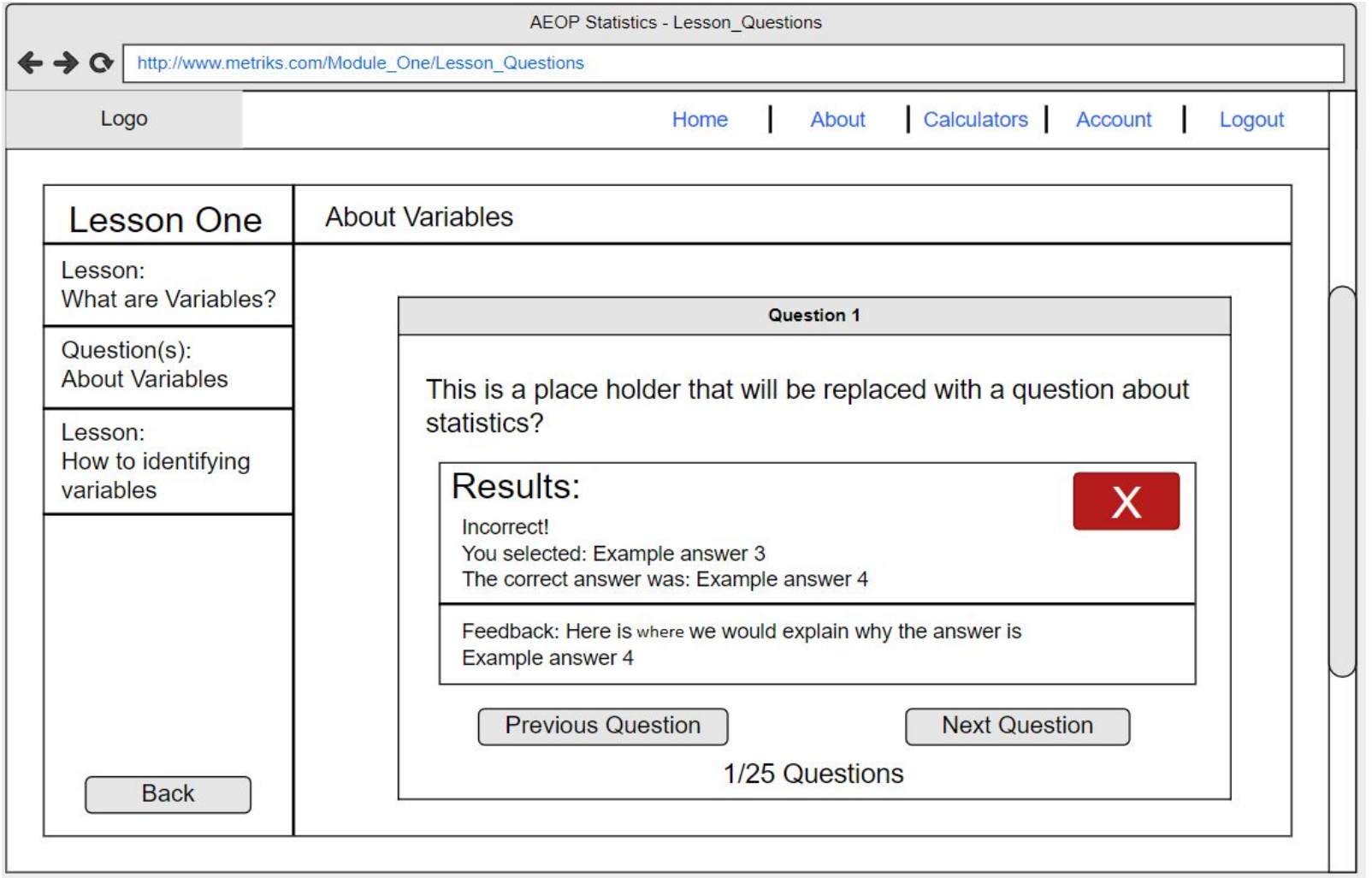
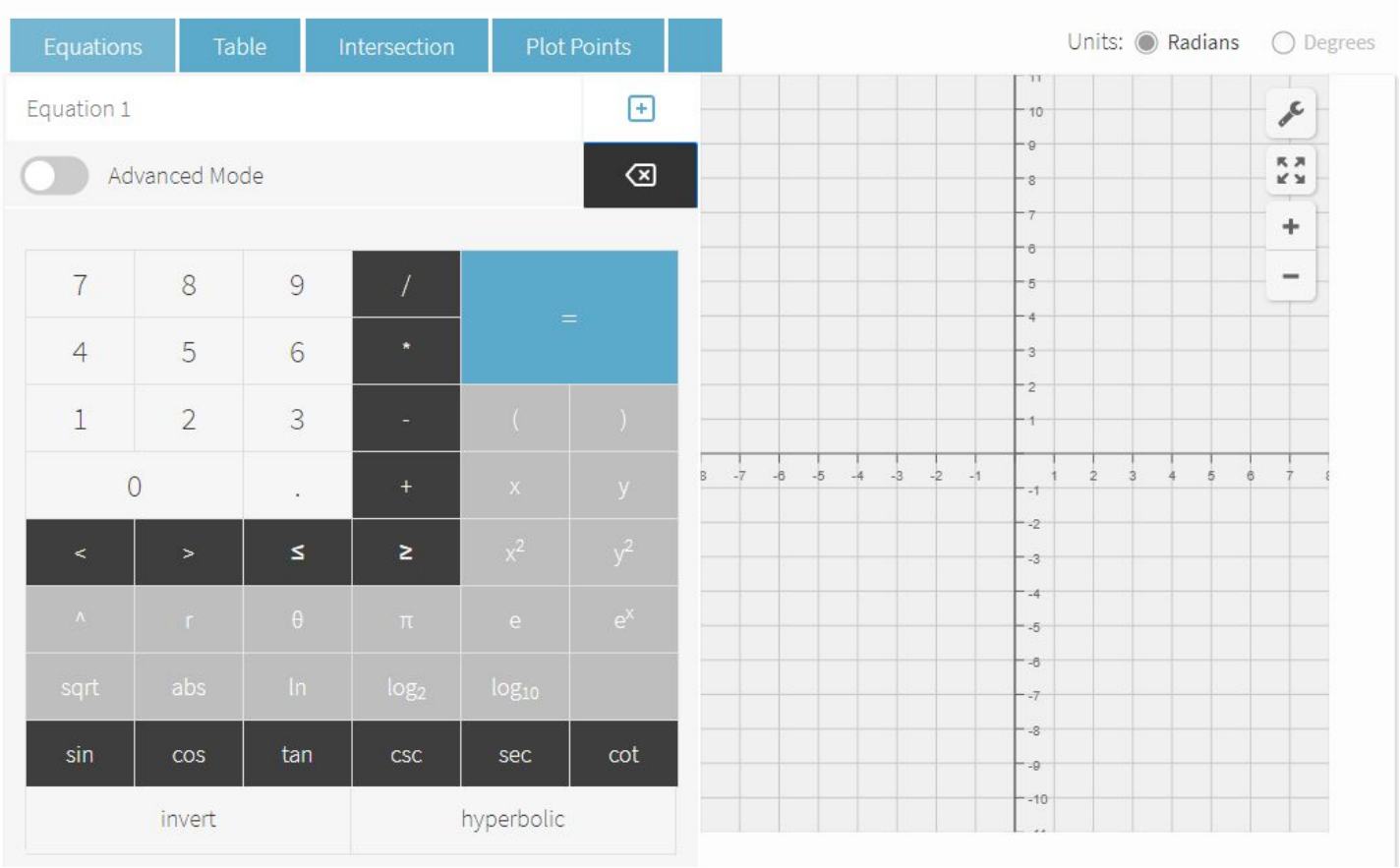
# Interactive Module Lessons



# Interactive Modules Questions



Interactive Modules Questions FeedBack



# Calculator (This is not our final version just an example of what it will look like)