

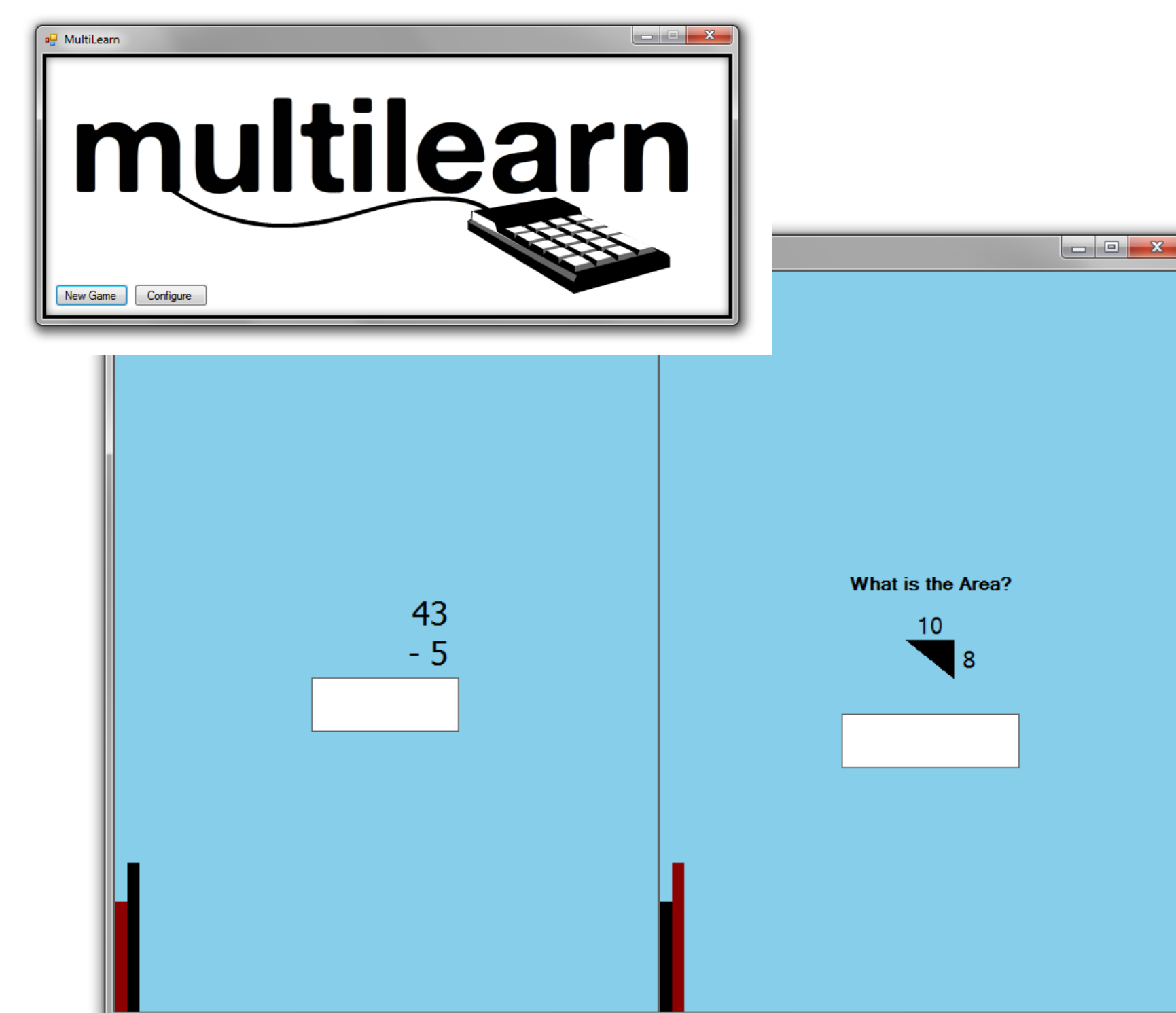
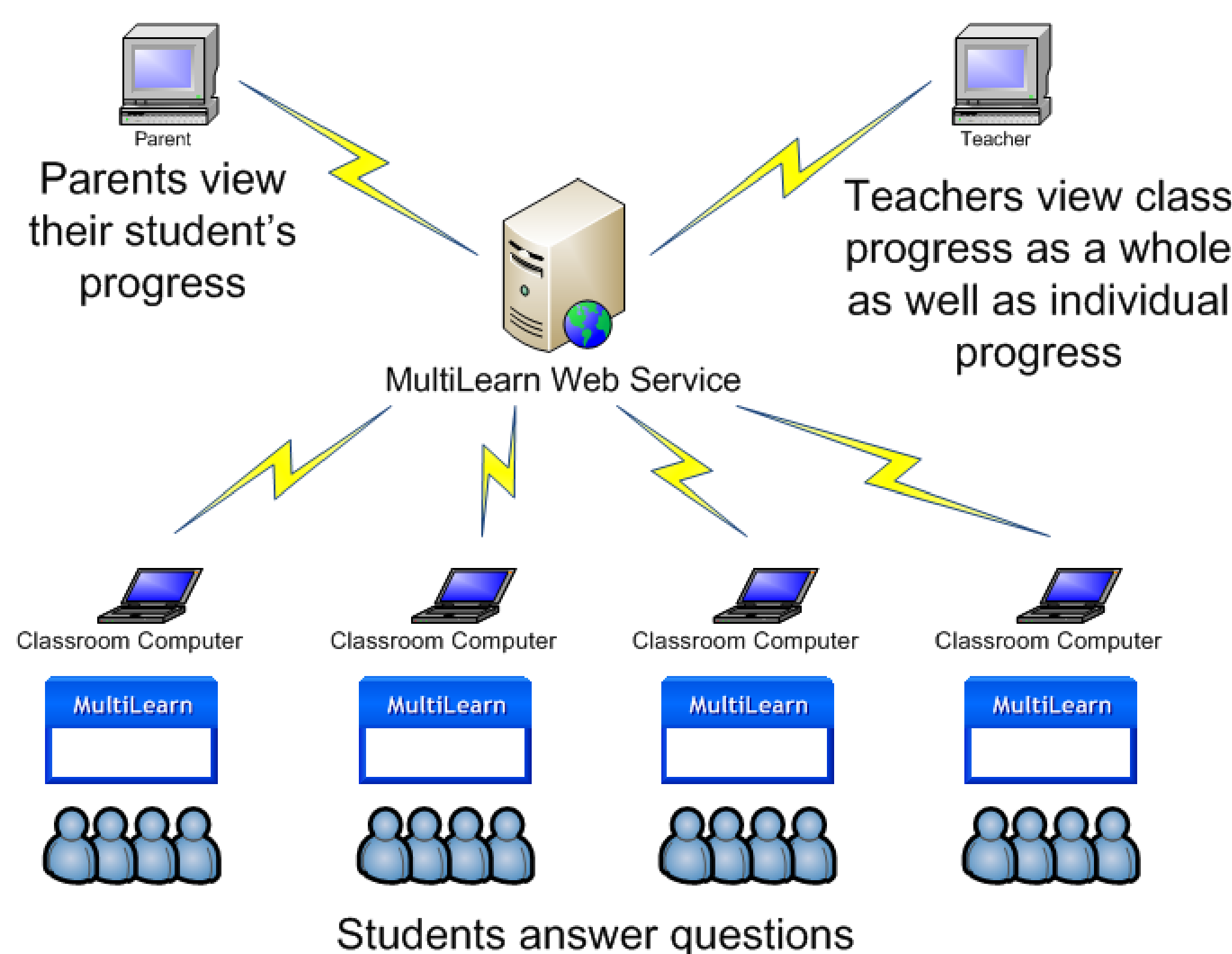
MultiLearn

CSE: Toby Escarez, Ethan Faust, Ji Mun, Anirudh Srinivas
HCDE: Jacob Mrozek, Chris Patterson, Calder Thami

What is MultiLearn?

MultiLearn is an **educational tool** that allows **multiple** students to use classroom computers and provides **feedback** on student progress.

MultiLearn consists of a **desktop application** written in C# and a **web application** written in PHP.



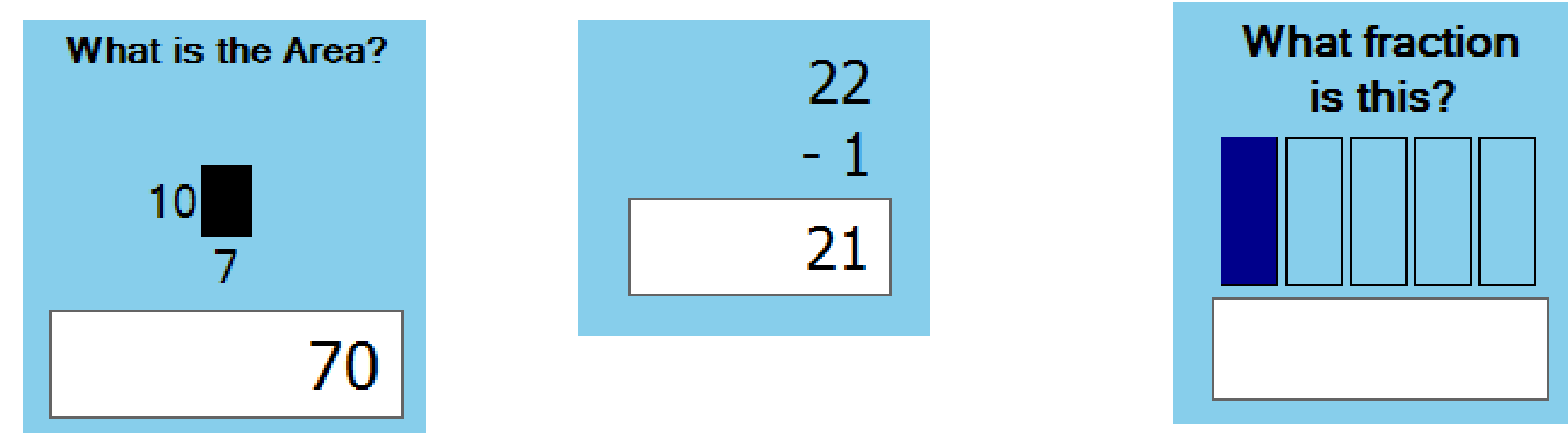
Extensions built this quarter

- Added web application to display statistics
- Re-wrote desktop application to export summary data
- Added additional question types
- See: <http://change.washington.edu/projects/multilearn>

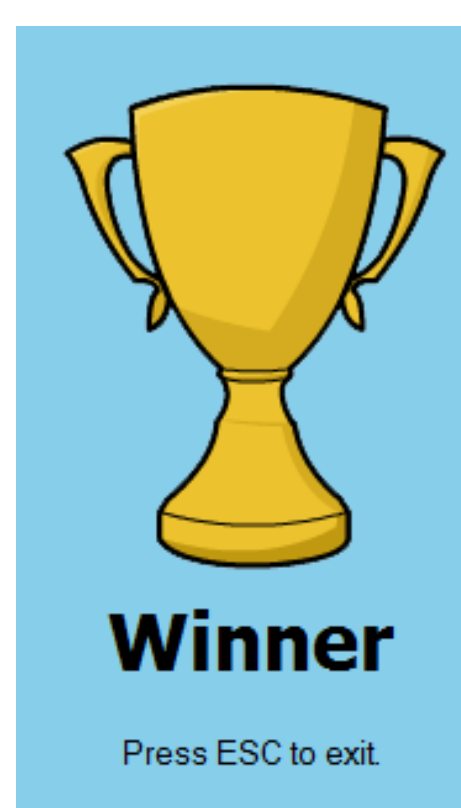
Fieldwork

- Evergreen Heights Elementary, Madrona K-8
- High student-to-computer ratio
- Current systems do not provide meaningful feedback
- Teachers want to see problem areas

Desktop Application



- Supports simultaneous input from up to 4 keypads (including the computer's keyboard).
- Tracks the types of problems users excel at or struggle with.
- Downloads settings from the internet allowing teachers to specify settings in one place and have them instantly deployed to N computers.
- Uploads usage data to inform teachers of how students are doing.
- Students can still use the tool if it isn't internet connected.



Web Application

Displays student performance in desktop application

Three screenshots of the web application interface. The first is a 'MultiLearn Login' form with fields for 'UserName:' and 'Password:', a 'Login' button, and a 'Click Here to sign up.' link. The second is a 'Performance Breakdown' table for 'CSE490D' showing overall class percentages for Add, Area, Divide, Fraction, Multiply, and Subtract, along with a table of student percentages for Anirudh, Ethan, Ji, and Toby, and a bar chart showing '% Correct Per Student'. The third is a 'Manage Your Comments' form with a dropdown menu and a text area.

Teachers are able to keep track of the overall class performance with one click

Teachers can add multiple choice questions to use in desktop application

Teachers can post comments for parents and students to see, allowing easy communication

