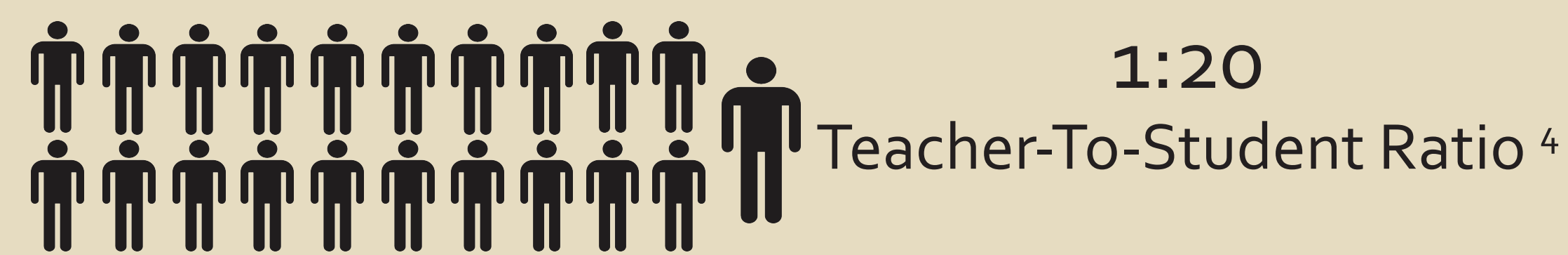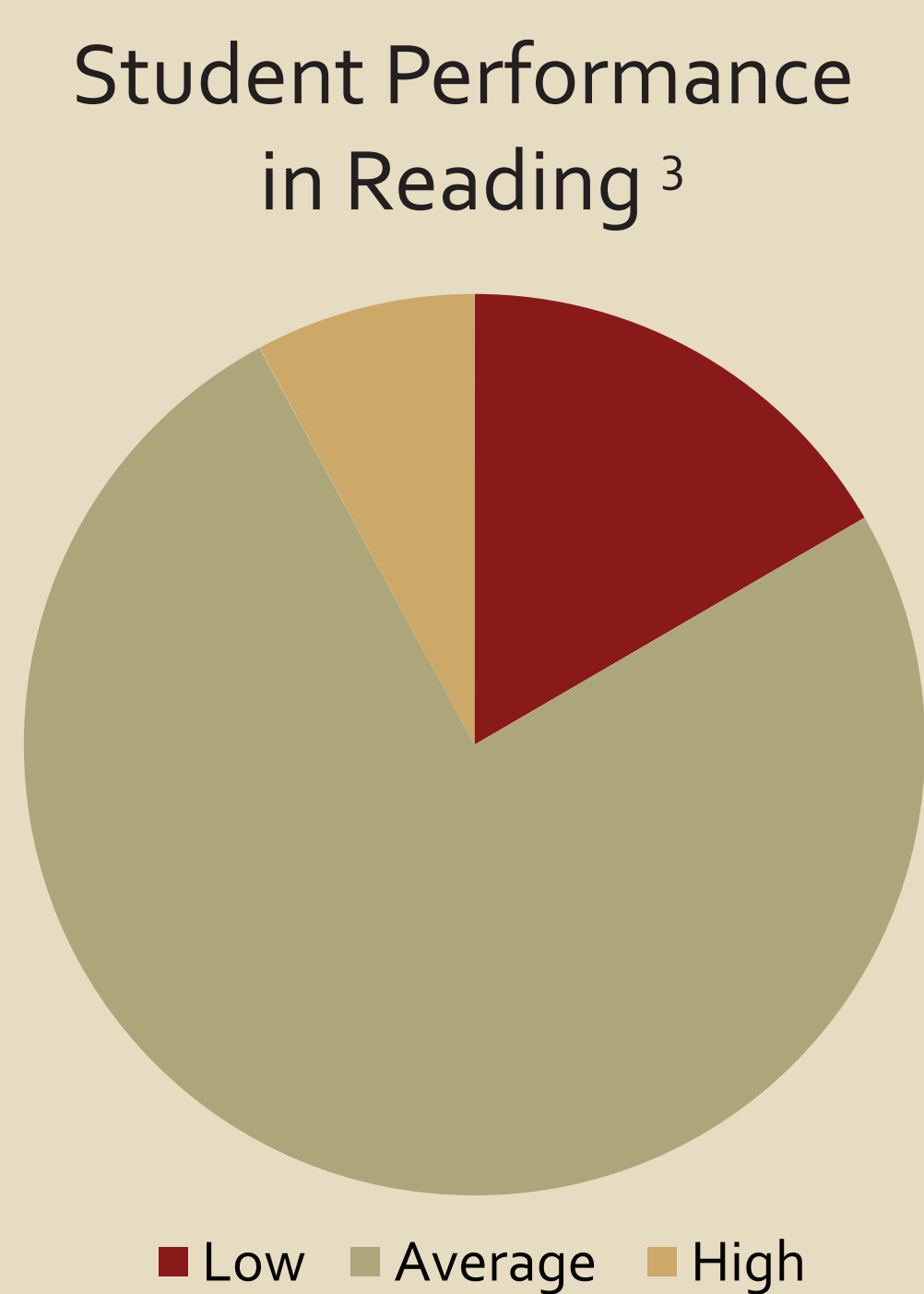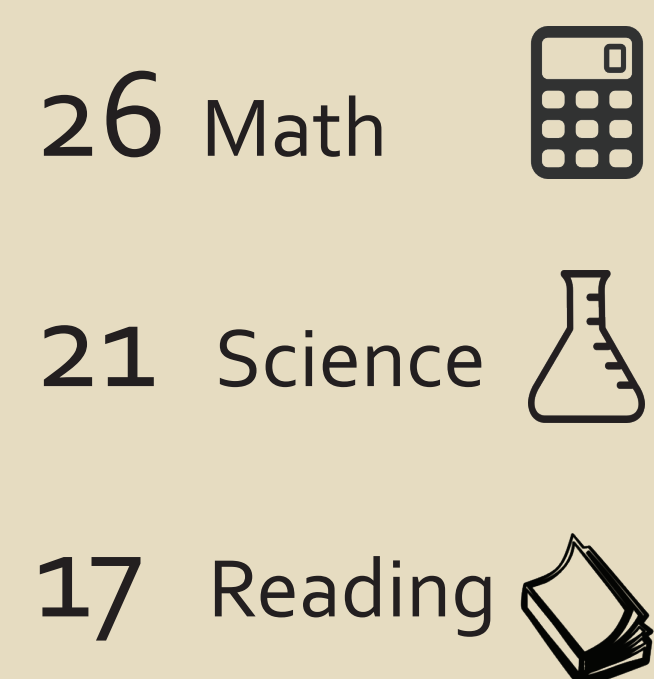# SmartAdventure

Problem

Students' test scores have **remained stagnant** in the United States for the past decade due to lack of education in **primary school** concerning subject foundations. [1]

Right now, primary school classrooms are too large, resulting in students not receiving the **individualized attention** that they need. [2]
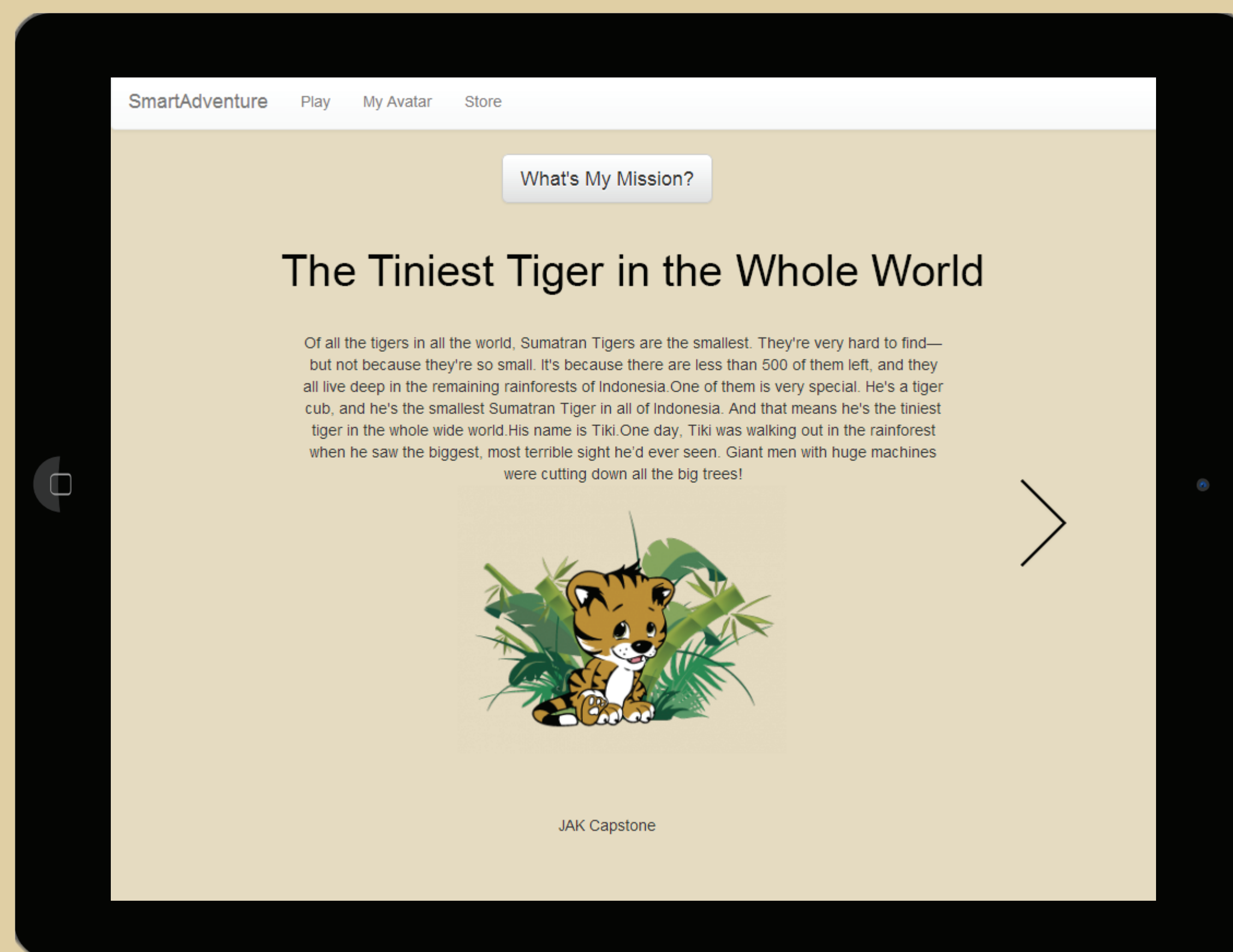
1:20
Teacher-To-Student Ratio [4]

The United States' rankings compared to other countries [3]

26 Math

21 Science

17 Reading

Student Performance in Reading [3]

- Low ■ Average ■ High

1 Simon, S. (2013, Dec 3). PISA results show 'educational stagnation' in US. Politico.
2 Bassett, P., Blatchford, P., Brown, P. (2011). Examining the effect of class size on classroom engagement and teacher-pupil interaction: Differences in relation to pupil prior attainment and primary vs. secondary schools. Learning and instruction, p 715 – 730.
3 Reading Literacy: Proficiency Levels. (2012). Program for International Student Assessment (PISA).
4 Fast facts. (2011). National center for education statistics.

Solution

SmartAdventure is a web-based **educational application** that provides students with immediate feedback on their reading skills and gives teachers information on their students.

SmartAdventure   Play   My Avatar   Store

What's My Mission?

The Tiniest Tiger in the Whole World

Of all the tigers in all the world, Sumatran Tigers are the smallest. They're very hard to find— but not because they're so small. It's because there are less than 500 of them left, and they all live deep in the remaining rainforests of Indonesia One of them is very special. He's a tiger cub, and he's the smallest Sumatran Tiger in all of Indonesia. And that means he's the tiniest tiger in the whole wide world.His name is Tiki.One day, Tiki was walking out in the rainforest when he saw the biggest, most terrible sight he'd ever seen. Giant men with huge machines were cutting down all the big trees!

JAK Capstone

Student Features
- Choose stories from multiple themes
- Explore storymap by reading stories and answering questions
- Earn coins to spend on in-class rewards or on your personal avatar
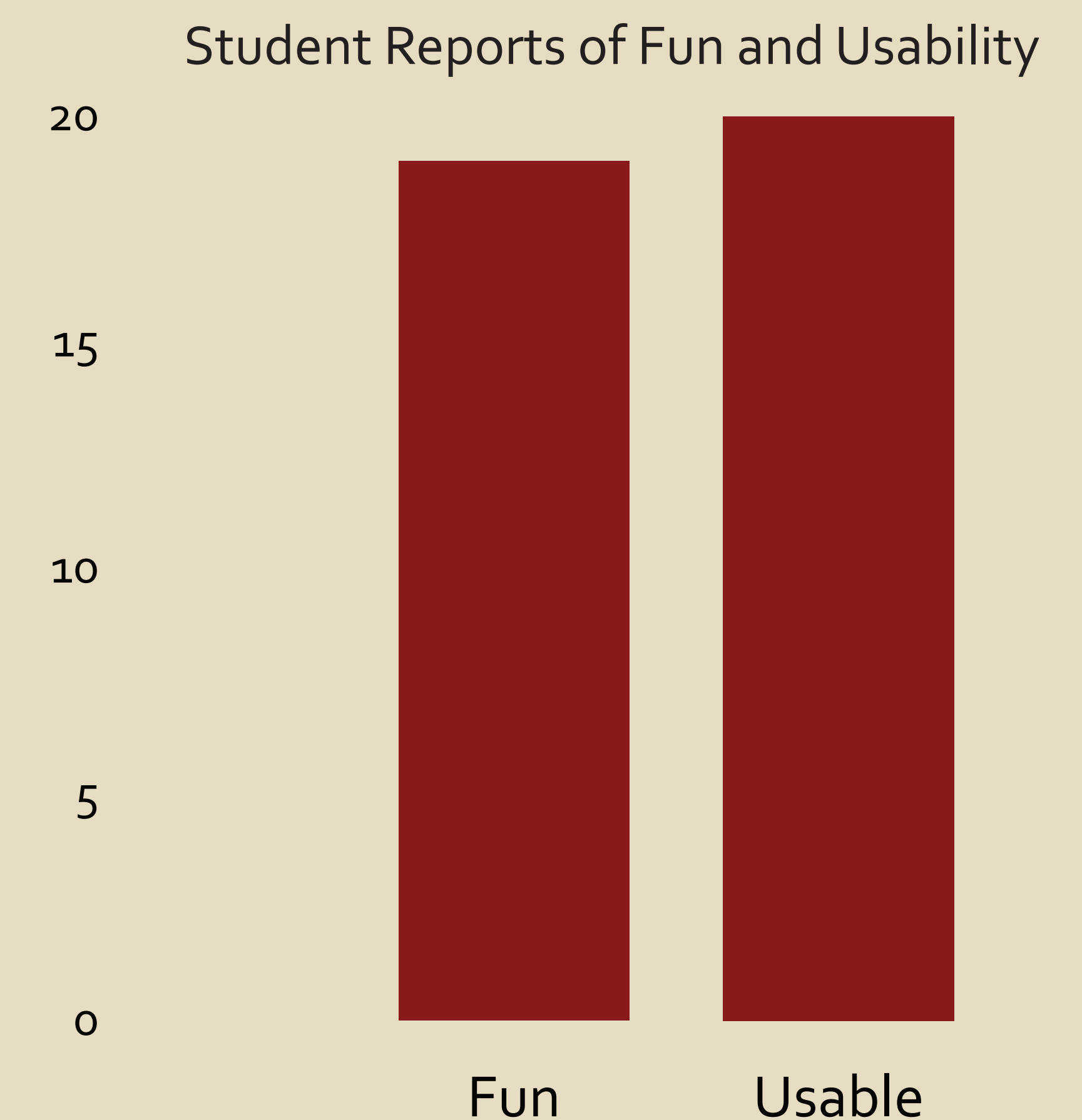
Teacher Features
- View an individual students' progress
- View statistics on your class
- Import stories and questions for your students

Evaluation

To evaluate our application, we conducted **usability testing** at a local primary school and interviewed 20 children between the ages of 6 and 8.

From these interviews, we gauged our success by the level of:
- ✓ Fun students report
- ✓ Usability that both the students and teachers report
- ✓ Usefulness teachers report

Student Reports of Fun and Usability

Fun   Usable

Teachers agree that graphs and metrics on their students would be useful

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