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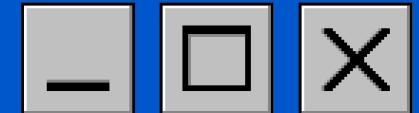
Technology and Information System (SECP1513)

DESIGN THINKING PROJECT

GROUP 1



Team Members



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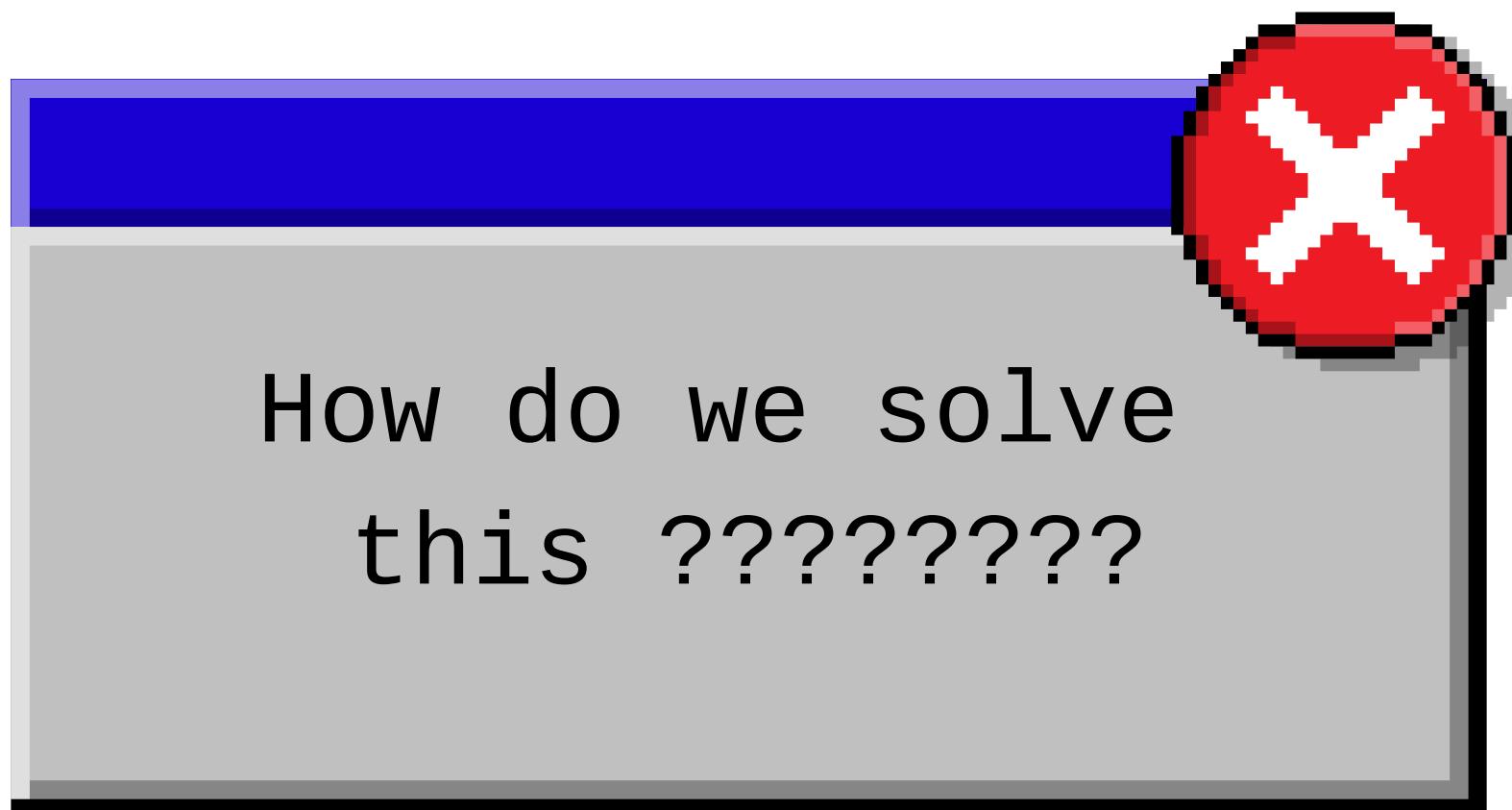
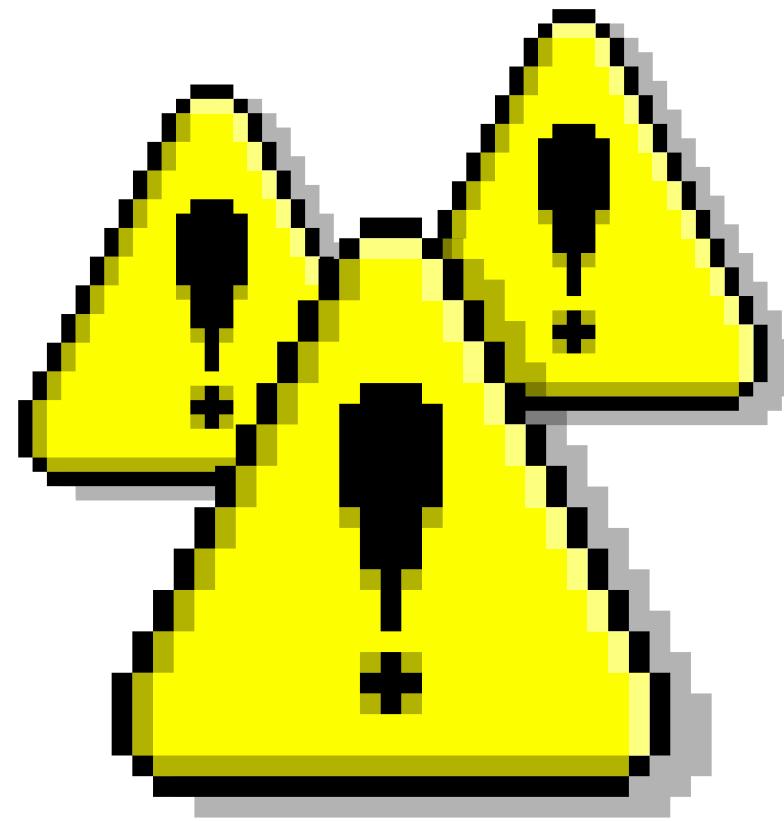
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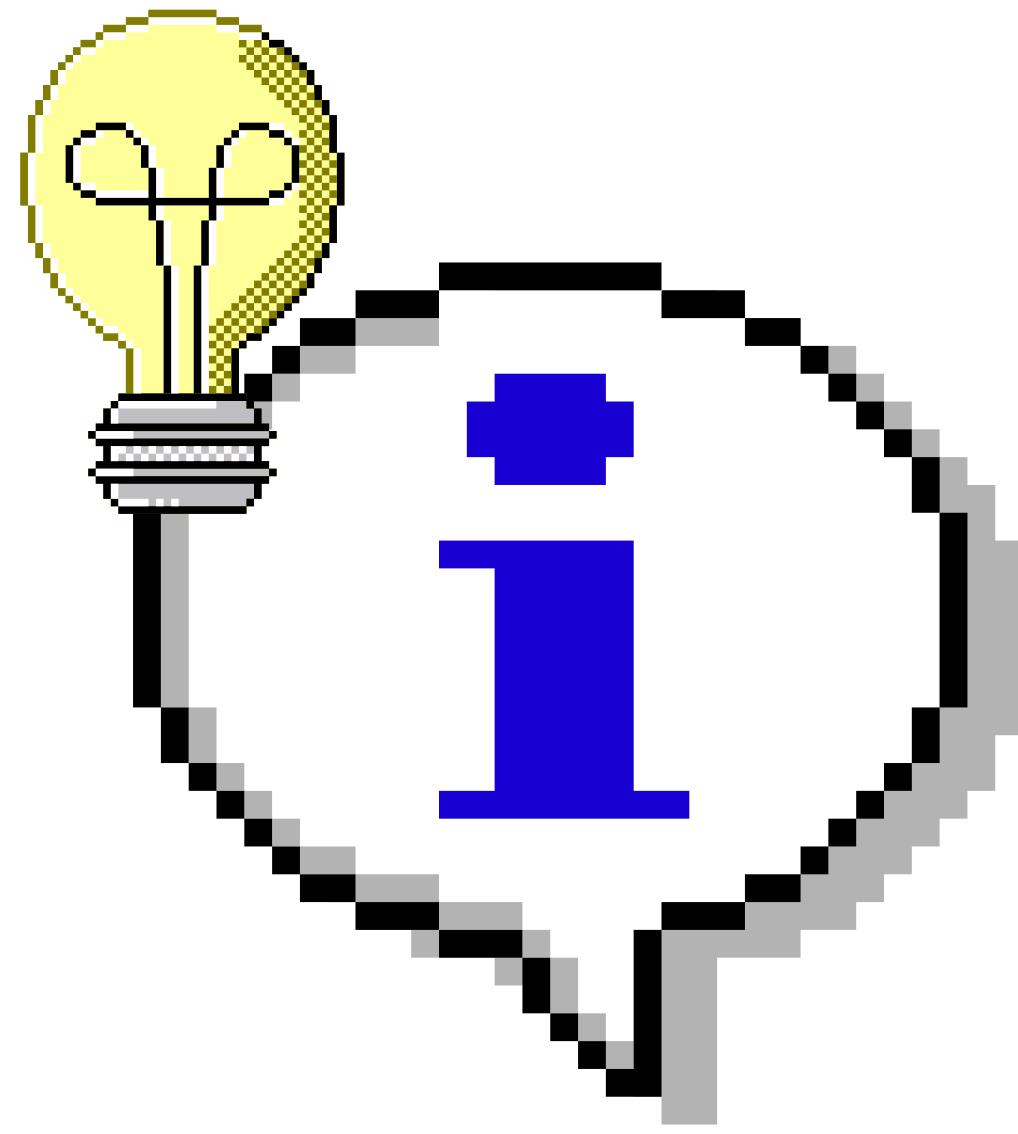
Problem statement

Children aged 5–9 years old are often found inattentive in the class, and they subsequently lag in learning basic skills like reading, writing, and arithmetic compared to other children.

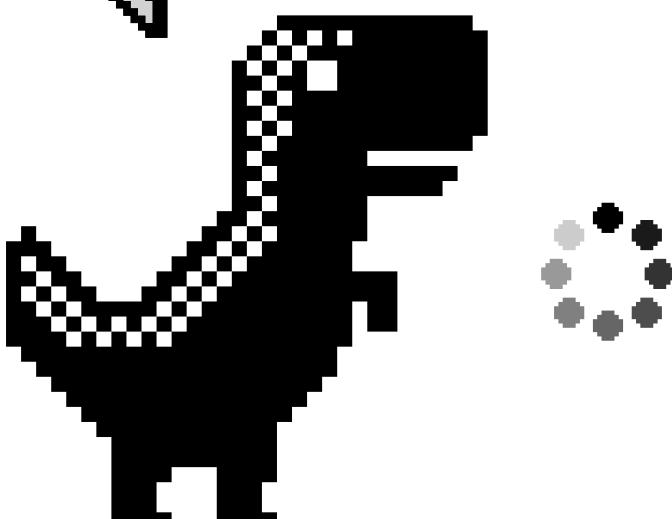
There are parents out there, who do not have enough money to send their kids to special schools to help their kids. Some teachers also struggle to keep their students pay attention in class.



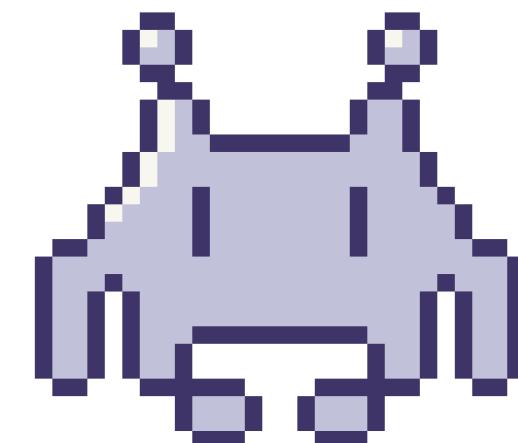
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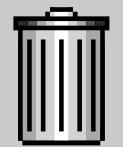
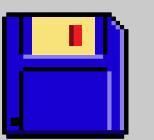
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What is the
solution ?



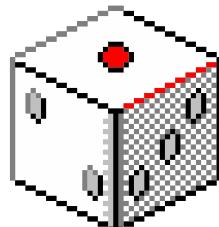
Gamified Learning
Activities



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Ideas Generated:

- Alphabet tracing mini games to improve writing ability
- Games involving pronunciation to aid reading and learning phonics
- Games of basic mathematics based on addition and subtraction
- Use reward systems such as points or stars to engage learners



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<https://readingeggs.com.au/news/2022/11/14/top-education-app-award/>

“ We launched ABC Reading Eggs almost 12 years back, and since then, we have been able to make a huge difference in the lives of millions of kids as well as families”.

One of the other contributing factors to the success of ABC Reading Eggs is the support features available for teachers in the classroom. Currently used by **90,0000 teachers in over 12,000 schools worldwide**, ABC Reading Eggs gives teachers the ability to quickly assess their students and provides them with the option to give students individualised learning paths. This means students can work at different reading levels. The program is also available in three accents, American, Australian and British, ensuring students can listen to and pronounce words in a way that's appropriate for their geographic location.

ABC Reading Eggs

An educational website that already exists in market .

It shows that this kind of website are widely used by ADHD children.



<https://www.frontiersin.org/journals/education/articles/10.3389/feduc.2025.1668260/full>

Methods: Eighty children aged 6–12 years with clinically diagnosed ADHD were randomly assigned to a gamified intervention group ($n = 40$) or a control group ($n = 40$). Both groups completed identical learning tasks (calculation, text comprehension, phonological exercises) over 8 weeks; only the intervention group received gamification elements (immediate feedback, rewards, level-based challenges). Baseline and post-intervention assessments included visual and auditory reaction time tests, a continuous performance test, and standardized academic tests in reading, writing, and mathematics. A follow-up assessment was scheduled 8 weeks after training.

Results: After 8 weeks, the gamified group showed greater improvements than the control group in visual and auditory reaction times and sustained attention (all $p < 0.01$), as well as in reading, writing, and mathematics scores. Training time was comparable between groups.

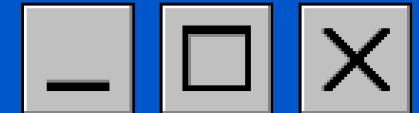
Effectiveness of a gamified educational application on attention and academic performance in children with ADHD: an 8-week randomized controlled trial

 JiaMin Dai¹ Ailifeire Wufue² Hong Zhang^{2*}

¹ College of Statistics and Data Science, Xinjiang University of Finance and Economics, Urumqi, China
² Student Affairs Department, Xinjiang University of Finance and Economics, Urumqi, China

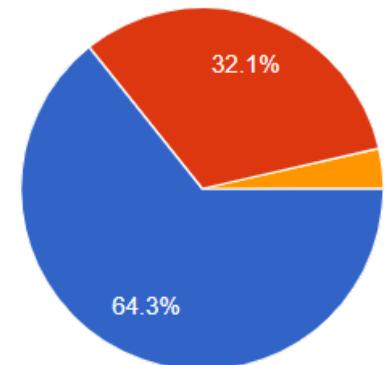


Evidence (Google Form)

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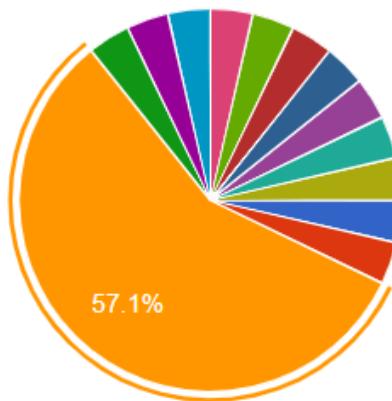
Do you know what ADHD is ?

28 responses

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Tell me your background.

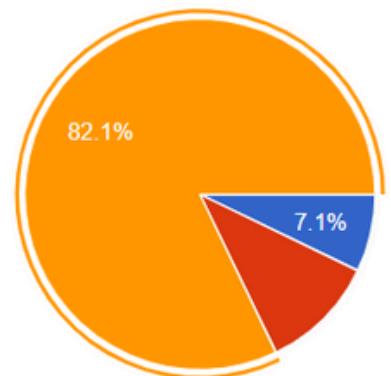
28 responses

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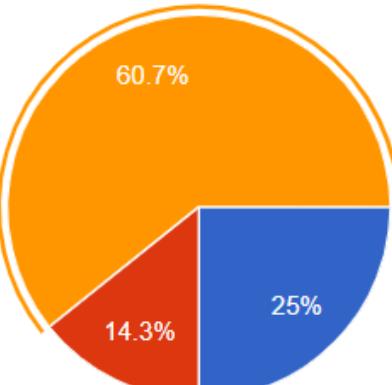
How old are you ?

28 responses

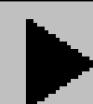
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Do you think kids struggles with ADHD more than adults or vice versa?

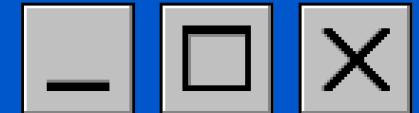
28 responses

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https://docs.google.com/forms/d/e/1FAIpQLSdEmaMfmKrO_5YbrCKShaEHtNI08tFRMWXumTOKHV8pOnTgIQ/viewform

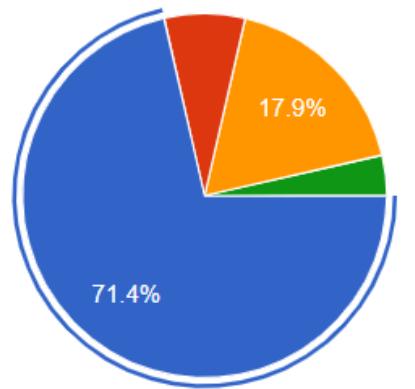


Evidence (Google Form)

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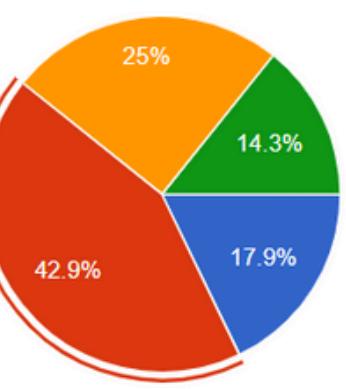
What is the main struggles for people with ADHD ?

28 responses

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What is your biggest concern about ADHD ?

28 responses

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What's the biggest challenge in getting kids excited about learning?

28 responses

Then not wanting to learn

Kids with ADHD get bored quickly if learning feels repetitive or too long.

It's hard to know which kind of activity make them being attentive to one thing at a time.

hard to maintain their focus when they do something they not like

Creating new topics that kids will be interested in.

The biggest challenge in getting kids excited about learning is making learning feel meaningful and engaging in a world full of instant distractions

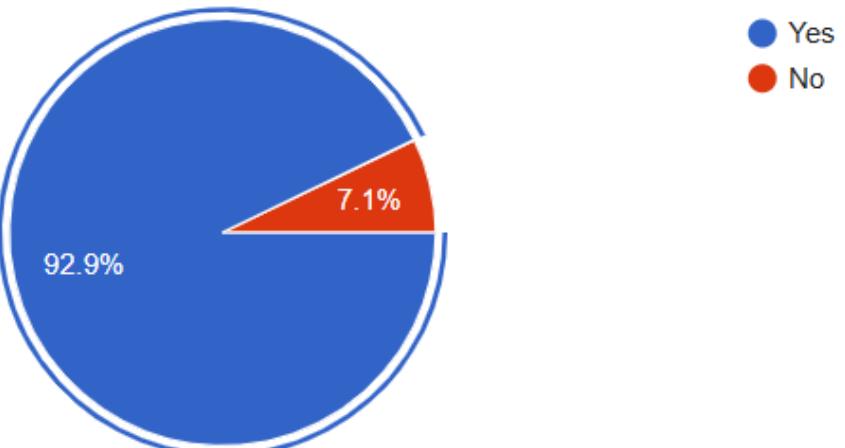
They can't focus on one thing at the time

worrying they might not understand what we trying to explain

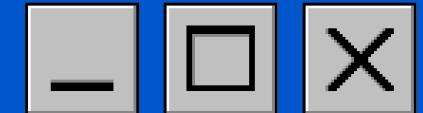
To keep them focus

Do you think digital solutions could help people with ADHD ?

28 responses

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Evidence (Google Form)

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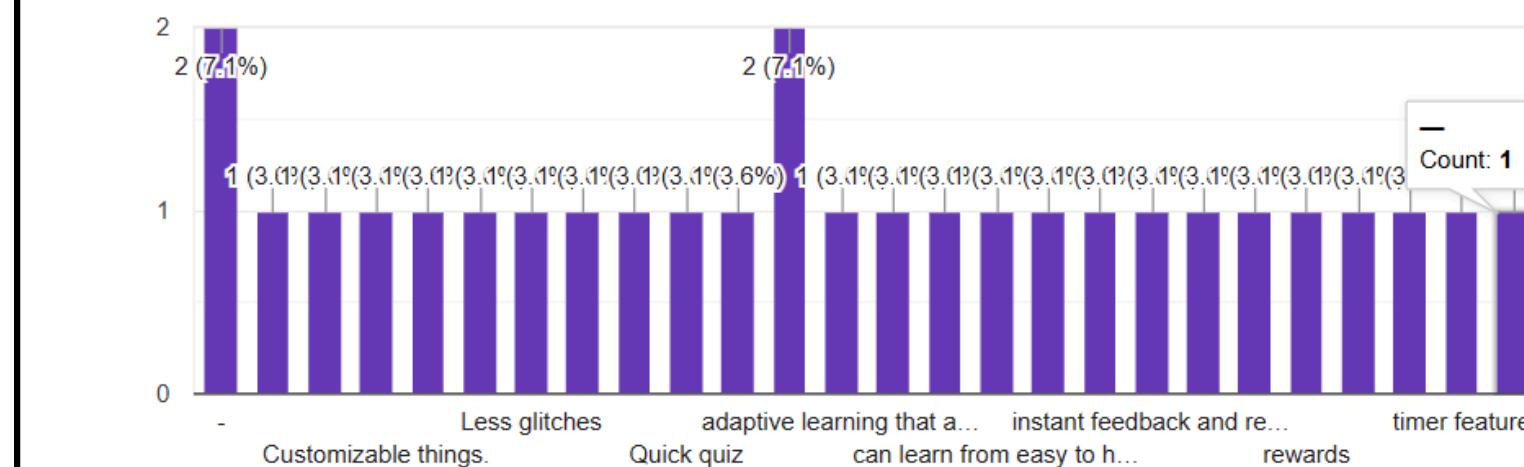
What game feature can help kids with ADHD the most?

28 responses



What subjects or skills would you like the app to focus on?

28 responses

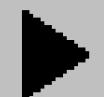
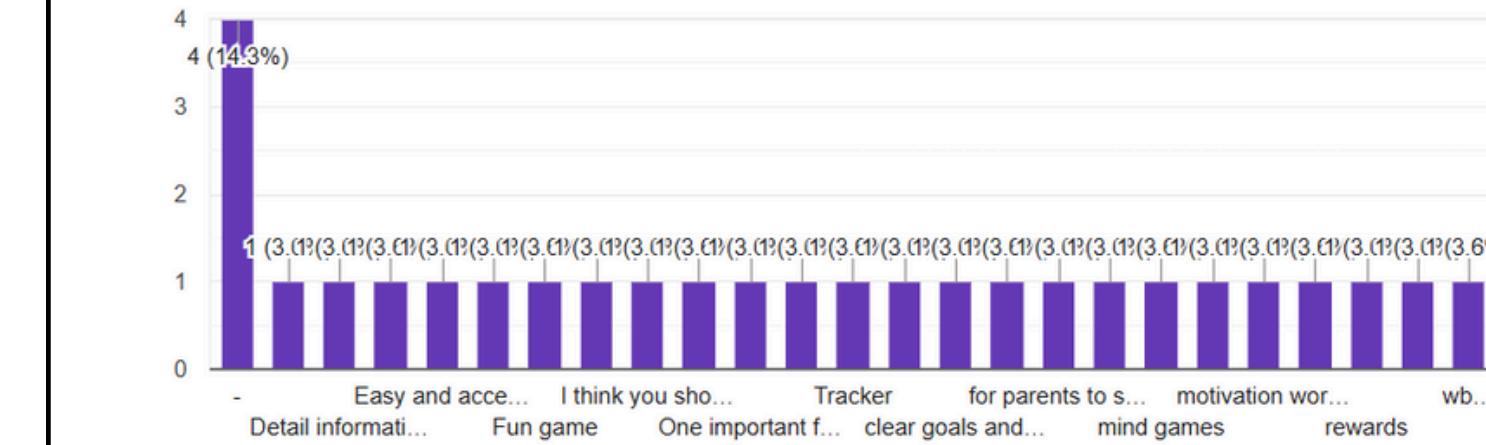


What's one feature you've always wanted in a learning app?

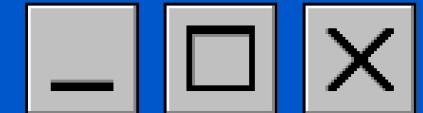
28 responses

What function do you think is important to be included in the website

28 responses



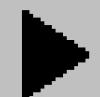
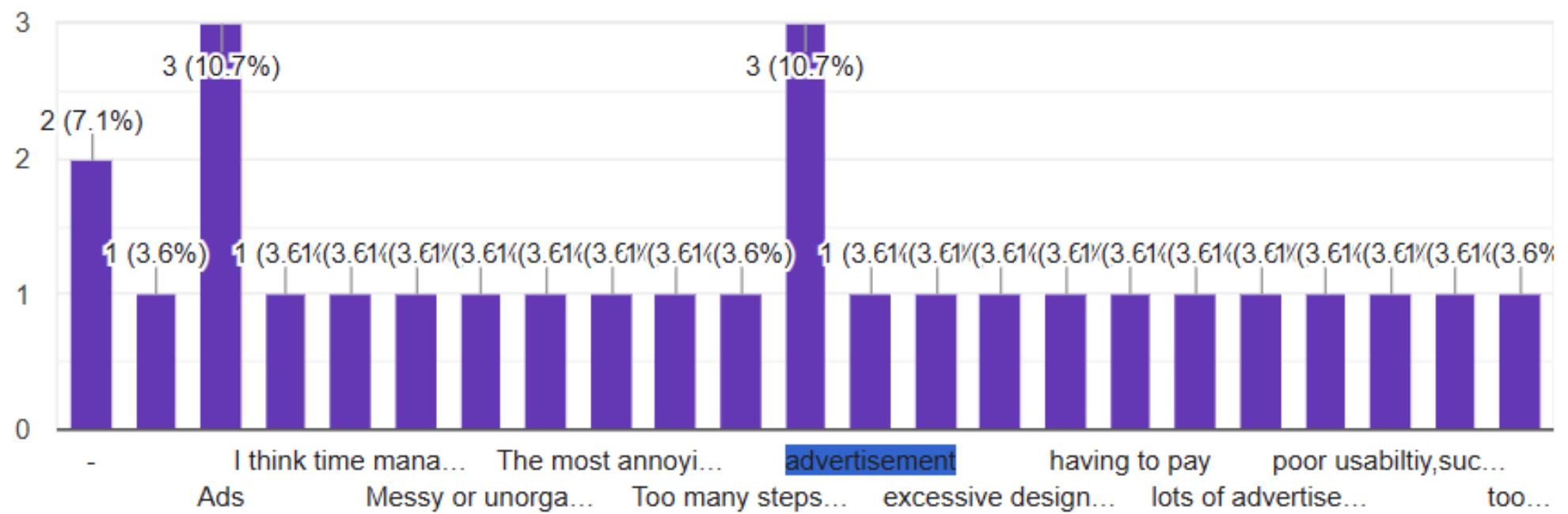
Evidence (Google Form)

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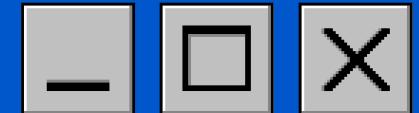
What's the most annoying part of any application ?

Copy chart

28 responses



Prototype Explanation



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https://xinyanchen2006.wixsite.com/my-site-1

The screenshot shows a Wix website prototype. At the top, there is a navigation bar with a logo consisting of two colored squares (brown and blue) followed by the text "My Site". To the right of the logo are links for "Home", "Log In Page", "Track Progress", "Playground", "Contact", and "More". The main content area features a large, bold "HELLO" text centered on a blue background with a faint grid pattern. Below this, a white rectangular box contains the text "Let's learn together!" and a dark grey button with the text "Start Now". At the bottom of the white box is a link labeled "Focus Mode >". The background of the page is a photograph of a coastal landscape with sand dunes and the ocean.

- This project successfully applied the concept of design thinking to help children with ADHD use current technology.
- The empathy to testing phase helped the team understand the real needs of the users.
- Traditional learning methods were found to be less effective due to difficulty maintaining focus.
- The mini-game-based learning application increased focus and interest in learning.
- This application made it easier for parents, teachers and therapists to monitor progress.