



DigiEduHack Solution
Baku - Hack4world
Challenge: Baku - Hack4world
Challenge 2021

Little Reading Rays - Baku Hackathon

A digital tool with a goal to be accessible and inclusive

Reading Rays is a research-based digital educational tool for students, therapists, and parents to aid in literacy and speech education by providing them with accessible resources and an aim of being inclusive and accessible.

Team: Sunnyside

Team members

Nicholas Tran, Michelle Ta, Teena Mali, Gabriel Fordan

Members roles and background

- Michelle Ta
 - CEO
 - Information Science & Technology Student
 - Thinkful Graduate
 - Tilted Chair Jr. UX/UI Designer
- Nicholas Tran
 - CTO
 - AI Scientist
 - Computer Science Educator
 - AWS Solutions Architect

Principal Software Engineer

@Venture Industries

- Teena Mali
 - Head of Product
 - Head of Product

UX Designer/Researcher

Co-Head of Content @Project Kindling

Collaborator @Collab Collective

Speech-Language Researcher

- Gabriel Fordan
 - Head of Design
 - Front-End Engineer

Co-founder @Vendrato

Marketing manager @S-VELO

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Solution Details

Solution description

Reading Rays is a research-based digital educational tool for students, therapists, and parents to aid in literacy and speech education by providing them with accessible resources and an aim of being inclusive and accessible.

Solution context

According to studies, roughly 15% of all students suffer from some type of attention or speech impairment. This number soars when autism and other neurodivergences are factored in. The current educational curriculum and resources do not take these diverse learning demands into account. Digital learning has a good impact on student accomplishment and has become an intrinsic part of everyday classrooms, according to a broad survey of 16,906 teachers and administrators, but it still has a long way to go. It gives you more freedom and variety, but it doesn't give you much in the way of interaction and collaboration.

Solution target group

Students, Kids, Parents, Speech-Language Pathologists, Therapists.

Solution impact

We are aiming to develop a research-based digital educational tool for students, therapists, teachers, and parents to aid in literacy and speech education, with the goal of being inclusive and accessible.

Solution tweet text

Looking for a more interactive classroom for your students? Reading Rays aims to aid neurodivergent students in literacy and speech education

Solution innovativeness

Current digital education tools are not accessible to everyday homes because they are primarily designed from the educator's perspective, and the majority of the apps are only compatible with iPhones and iPads and are quite expensive. Educators support these platforms, but these platforms often lack tech advisors resulting in poor visual feedback.

Solution transferability

Reading Rays can be used as a general remote learning tool to enhance any academic environment and provide an interactive and collaborative learning experience.

Solution sustainability

Reading Rays intends to harness the power of AI document analysis, as AI can transform any document or worksheet into an interactive experience. Instead of relying on an external API with a restricted number of terms for pronunciations and definitions, we are leveraging data science and analytic approaches to create a rich and vast database of words, definitions, and pronunciations with our solution. Reading Rays intends to increase language support for all languages, introduce multilingual features, and give more language education possibilities in the future.

Solution team work

Our team cooperated effortlessly together and we made sure to offer assistance where it was needed, divide the tasks, and project coordinate together to ensure that everything was achieved.