NASA INTERNATIONAL SPACE APPS CHALLENGE

AT-TARIQ

Solving **Chronicles of Exoplanet Exploration**

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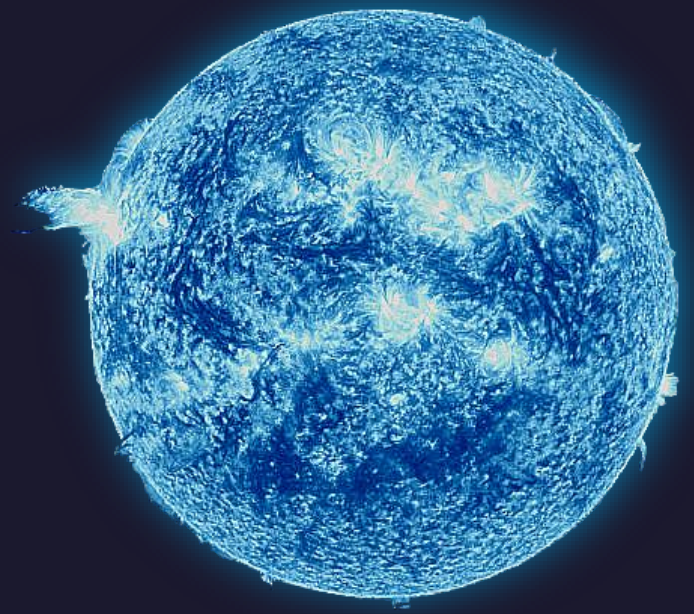
Imagine One-Shared experience between students looking up for sources...

Conflicts, inconsistencies, and clashes between multiple sources can be frustrating.

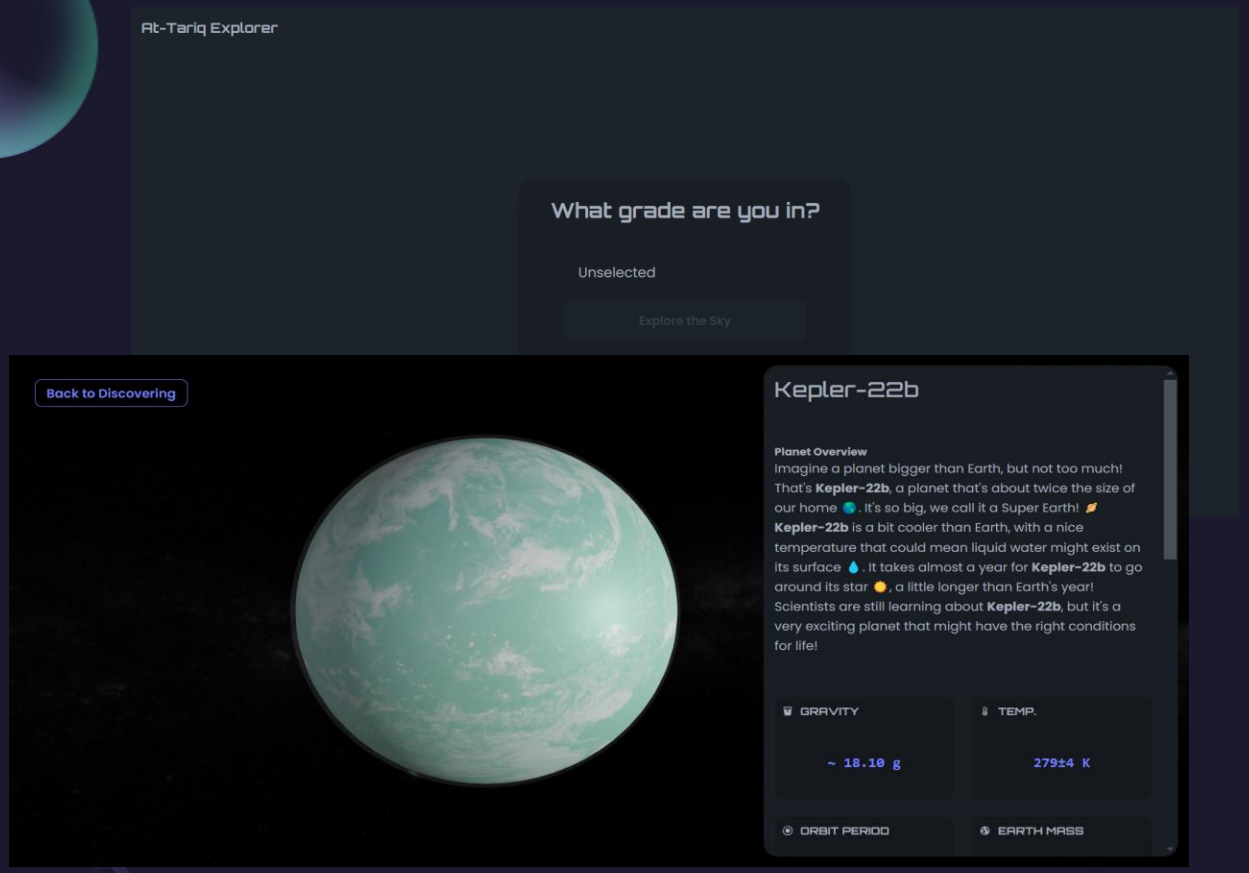


But, What If..?

We made a unified experience where all students can understand and benefit from the same reliable source which is based on **NASA's resources.**

One that's for all educational grades.

Empowered by Generative AI, information will be tailored to best fit the educational grade, thus, a student would comprehend the information more effectively.



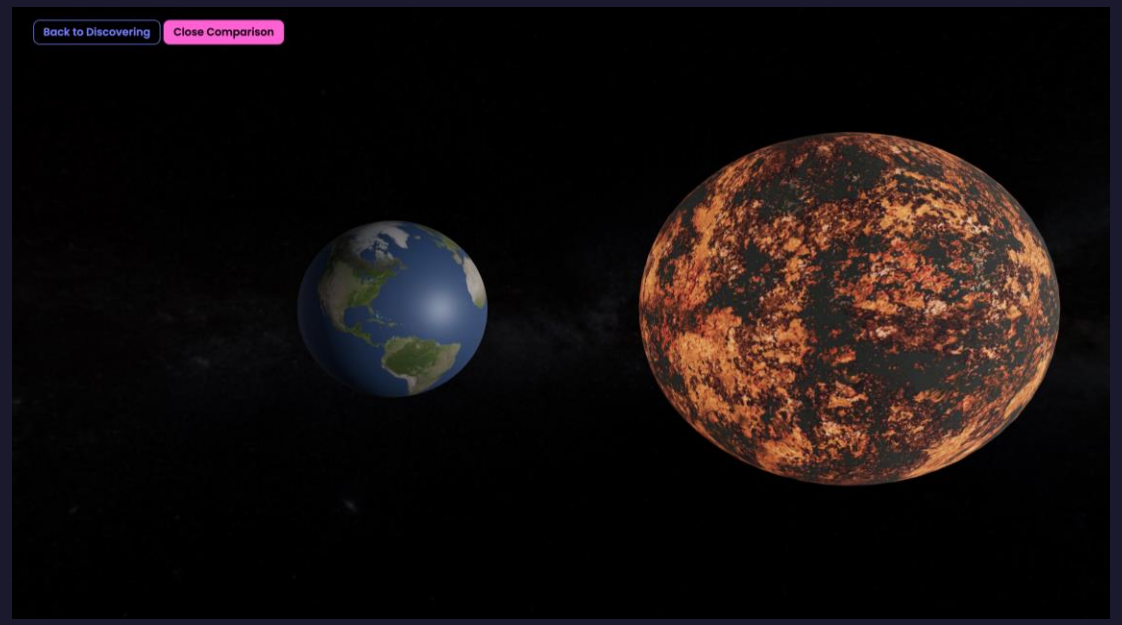
Detailed information about the planet tailored to best-fit a student's educational grade

A gamified solution perfectly suited for students.

If exoplanet data is provided, students will have the opportunity to explore and test some of its key features, helping them better understand its properties and comprehend comparisons and other factors.

How are we helping?

Students face challenges accessing reliable information about exoplanets due to the variety of sources available online. By relying on NASA's resources, these gaps can be filled, providing accurate information that supports student learning.

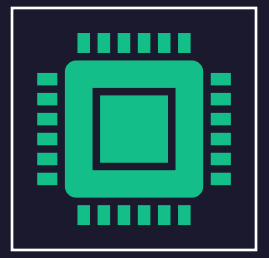


Focused on enhancing the learning journey, the app leverages **generative AI** to personalize content according to each student's grade level and comprehension. By adapting the material and providing interactive, near-realistic simulations, the app strengthens core concepts through hands-on experimentation and assessments. This personalized approach keeps students engaged, motivated, and fosters a deeper understanding of exoplanets and the scientific process.

TECHNOLOGICAL FRAMEWORK AND FEATURES

Modern Frontend Framework

Utilizes Sveltekit and daisyUI for a responsive and dynamic interface.



Robust Backend Support

Powered by a Python-based RESTful API to facilitate NASA resource interact

Interactive Experiments

Created with Unity Engine and integrated seamlessly using WebGL for immersive experiences.

Why At-Tariq?

Students often struggle to grasp complex exoplanet and space-related topics, especially when relying on unreliable sources. At-Tariq Exo simplifies this by helping them absorb key information quickly and effectively.