

TVARUS

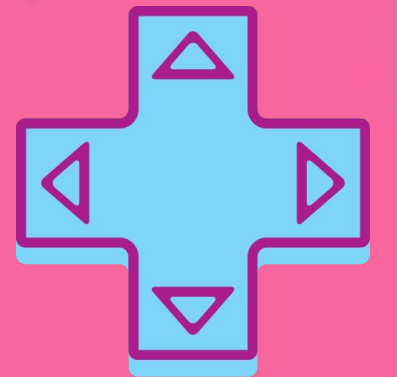
By Mubarak Abiola Keshiro



START

Background & Introduction

- An application that empowers kids to explore and understand how their everyday actions influence the world around them. It embeds multiple engaging activities, games, and challenges within each SDG.



● WHY AND HOW

● WHY

Majorly because SDGs are not taught in the elementary North American curriculum. Also my nieces were an inspiration for hosting it on iPads and other tablets

● HOW

This was fully implemented using React-native  React Native

- massive hump initially when i tried using xcode with a non MACOs computer



Digital habitats and community orientation

- No existing digital habitat apart from the sdg website. Lots of potential for this growing and restless community.

This community implements meetings, community cultivation and other orientations.

Based off my “who” I decided to focus on expanding the Individual participation Community orientation.

4 QUALITY
EDUCATION



Existing technologies

- Nasa climate kids and Twin science.

Nasa climate kids is web-based and is not feasible or intuitive enough to engage kids

Twin science is focused on assisting educators, paid and is mostly information overload

TVARUS focuses on being easy to use and understand for the target northstar user

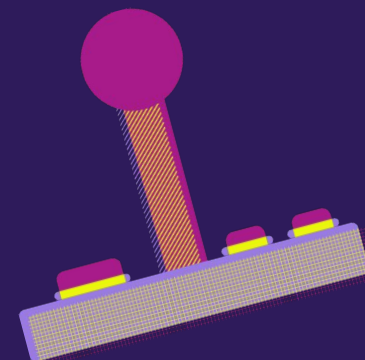
CLASS TOPICS USED

RHIZOMATIC LEARNING

- Each module is separate and can grow individually
- Kids get to learn as they play
- Achieving SDG 4 will help to achieve many other (wikipedia)

GAMIFICATION

- A few of the activities within simulate game playing



DEMO

RAM	JSC	Views	UI	JS
206.66 MB	0.00 MB	72 146	60	60

Lifeonland

LIFE ON LAND

PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, AND HALT AND REVERSE LAND DEGRADATION AND HALT BIODIVERSITY LOSS(SOURCE:UNITED NATIONS)



RECYCLE RACE



CARBON FOOTPRINT CALCULATOR



CHOOSE A CAR

RAM	JSC	Views	UI	JS
218.69 MB	0.00 MB	69 142	58	60

Climate Action

Climate Action

CLIMATE CHANGE IS THE DEFINING ISSUE OF OUR TIME AND WE ARE AT A DEFINING MOMENT. FROM SHIFTING WEATHER PATTERNS THAT THREATEN FOOD PRODUCTION, TO RISING SEA LEVELS THAT INCREASE THE RISK OF CATASTROPHIC FLOODING, THE IMPACTS OF CLIMATE CHANGE ARE GLOBAL IN SCOPE AND UNPRECEDENTED IN SCALE. WITHOUT DRASTIC ACTION TODAY, ADAPTING TO THESE IMPACTS IN THE FUTURE WILL BE MORE DIFFICULT AND COSTLY. (SOURCE:UNITED NATIONS)



Energy Monitor



Maintain your garden

RAM	JSC	Views	UI	JS
221.83 MB	0.00 MB	67 140	60	60

Lifebelowwater

LIFE BELOW WATER

Conserve and sustainably use the oceans, seas and marine resources for sustainable development(source:UN)



OCEAN POLLUTION QUIZ



DIFFERENT AQUATIC HABITATS

VIDEO DEMO

REFLECTIONS

- I feel great about this project and I definitely feel successful, I completed all planned MVPs
- I liked learning creating applications in React-native. I did not like the hassle Mac OS gave me regarding virtualbox
- I am most proud of learning animations using lottie and json files
- I learnt that I don't like to quit something once i've started
- I definitely like the agile/scrum approach as it pushes you to have something.
- My application has the ability to host and embed a lot of other games and applications other students created.



QUESTIONS?