

Aim

environmental education and reigniting a value in outdoor exposure to the next generation

Motivation

address the increasingly drastic needs of the environment's health and its value in the youth

Research Question

Are there better methods of educating and creating a more conscientious generation that embeds value and sustained engagement with nature?

Target User

Age

Old enough to understand certain concepts, young enough to develop habits and values

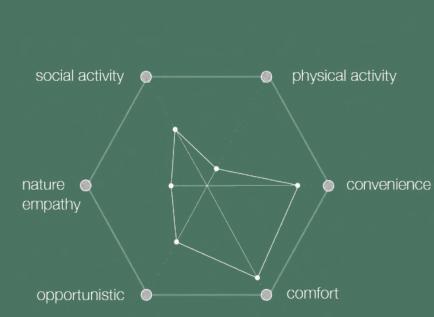
Behavior

Not accustomed to outdoor experience or stewardship, heavy tech users and homebodies

Context

Reach those not only in rural living context, less connected









Time outside

10-16 year old's spend only 12.6 minutes a day on outdoor activity compared to 10.4 waking hours being relatively motionless



Screen Time

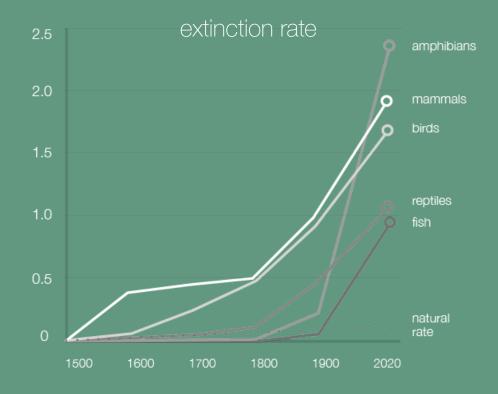
average amount of time nearly half of Gen Z spends using a device each day



2nd largest

contributor to global climate change

Global Rank







Global Rank

U.S. is 31st in the world in student science scores

62% computer science

Pursuit of Science

vast majority of growth in science jobs is in computer science





United States

Vast resources and land with little control

Norway

Knowledgeable to thrive in harsh climate & land



Japan

Strategic land and resource use from spatial constraints

New Zealand

Careful stewardship to retain delicate ecosystem balance



Understand current school methods, effectiveness, and student resonance

18 Parents 20 teachers

50%

Chose the lowest option for how well their school touches on instilling value in the environment 65%

state their students are in the lower half of responsiveness & interest to lessons on any given day

3/4

Have technology used frequently in the classroom day-to-day

5/100

rating on how often lessons are conducted outside the formal sit-and-listen classroom context



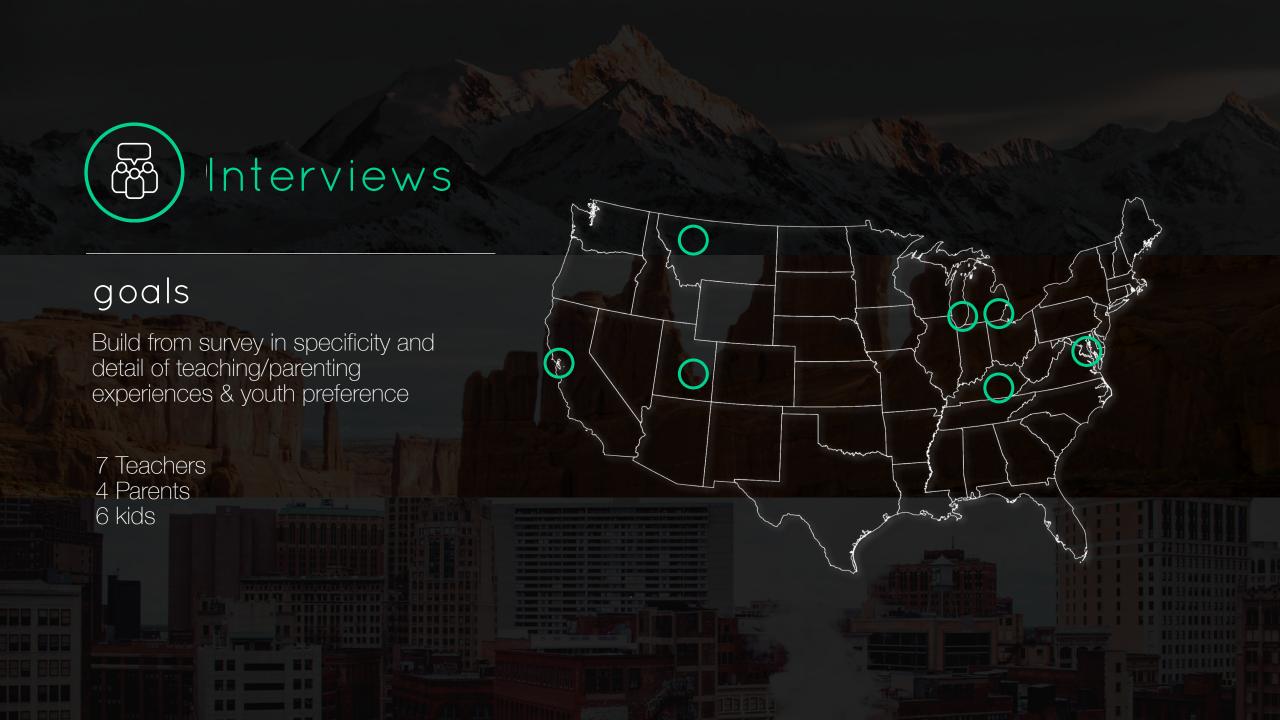
tech use

strategic use of tech can be more benefit than risk

separation

distinction between formal class and active hands on experience start point

low baseline for environmental knowledge and experience





Insights



Youth Perception

Fear of the unknown
Growth as incentive
Knowledge variability



Learning Method

Physically active engaging Emotional relevancy Enabling independence



Adaptability

Habitat variability
Time limitations
Student relevance

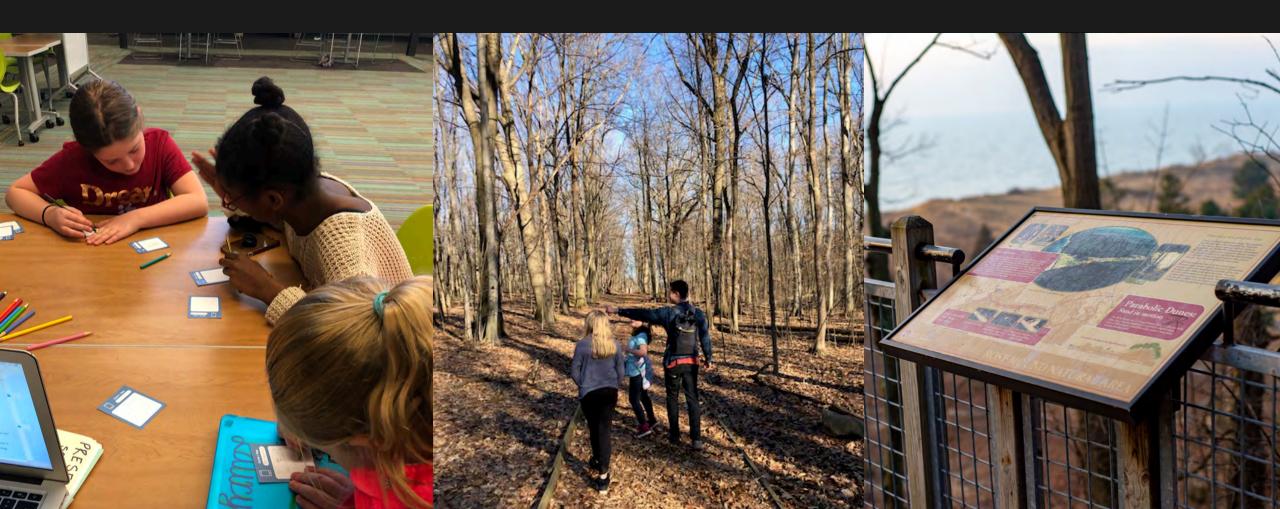
Initial Concept

A digital station providing adaptable educational prompts to structure habitat exploration and discovery

Local naturalists provide habitat knowledge for relevant lesson prompts

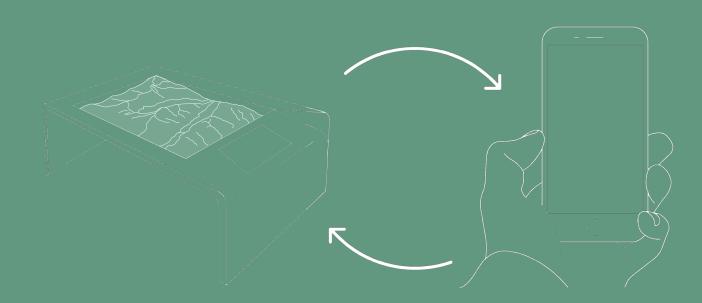


Validation

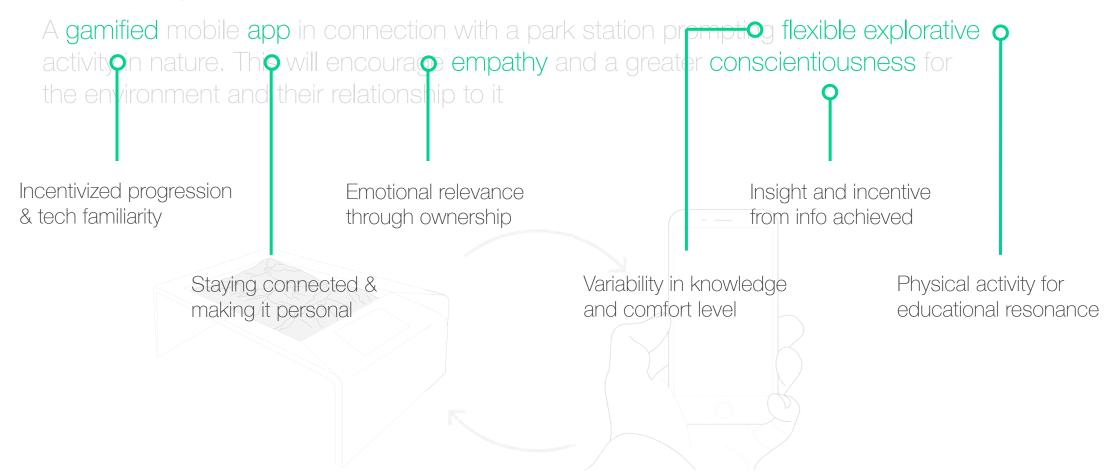


Design Statement

A gamified mobile app in connection with a park station prompting flexible explorative activity in nature. This will encourage empathy and a greater conscientiousness for the environment and their relationship to it

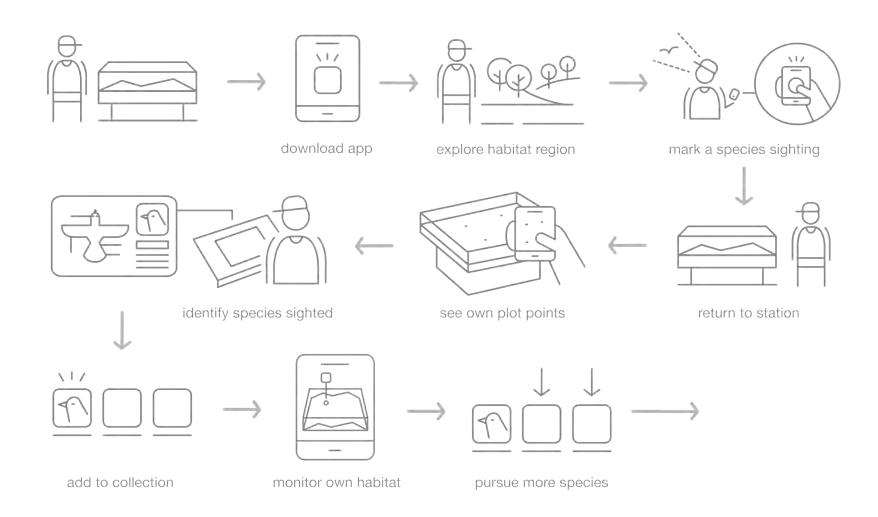


Design Statement





Journey engaging in activity



Journey engaging in





eg engaging in activity





engaging in activity

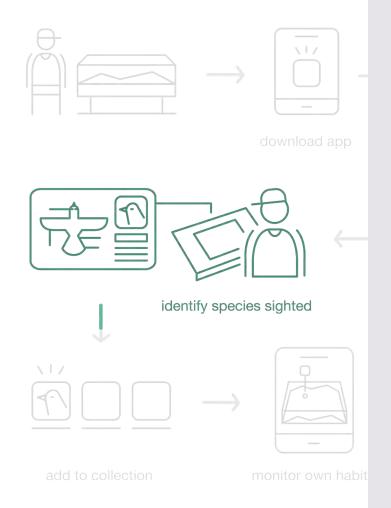


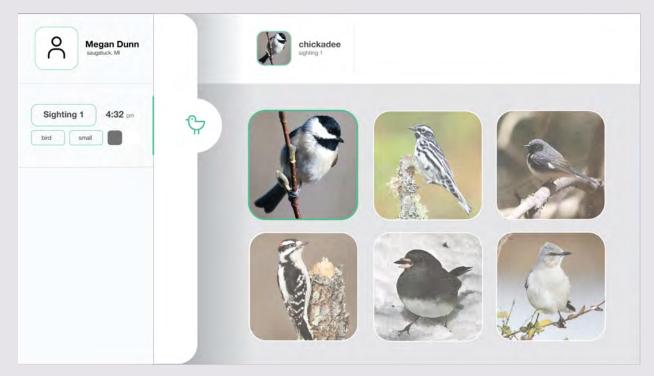
engaging in activity





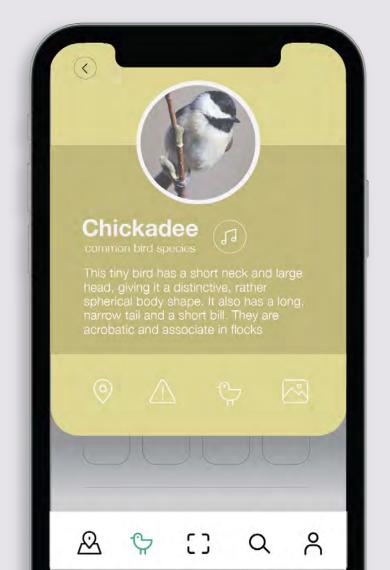
Journey





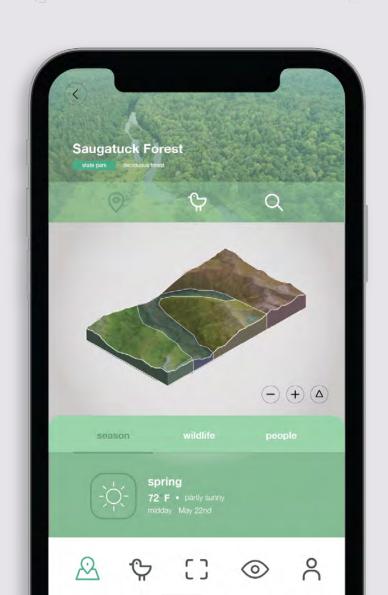
Journey engaging in



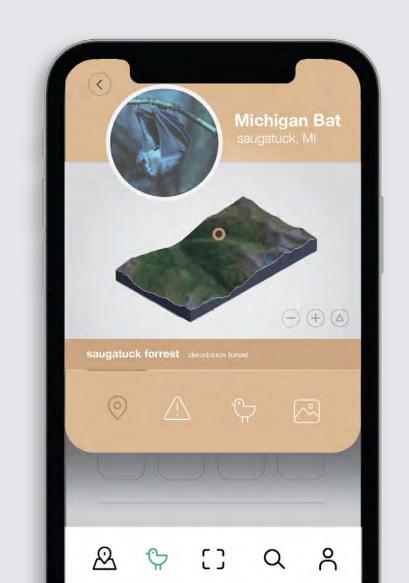


Journey engaging in



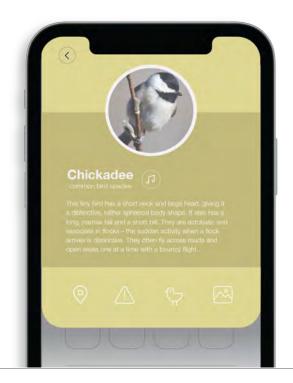


engaging in activity





Key Elements









Ownership

Building empathy through personal experiences in the wild

Relevance

Activity that is contributive for a greater cause than own entertainment

Adaptability

Maintains relevancy with local naturalist support and changes based on time of use

Progression

Gamified progression provides incentive and encouragement to build experience in habitats

Safety & Comfort



GPS Tracking

GPS monitors location of sightings as well as location of youth users



Parent smart phone linked through invites, and group profiles

THE Orientation

Ease into new environments with class and family introduction sessions



Limiting Technology



Locking

Temporary lock placed on nonessential apps when sighting wildlife



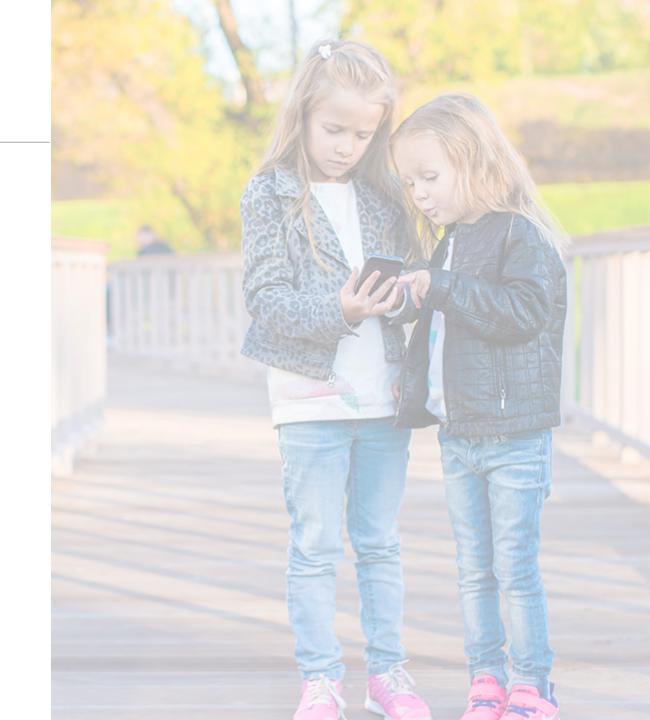
Streamlined

Quick input of notes in field to not take away from exploring experience



Station Station

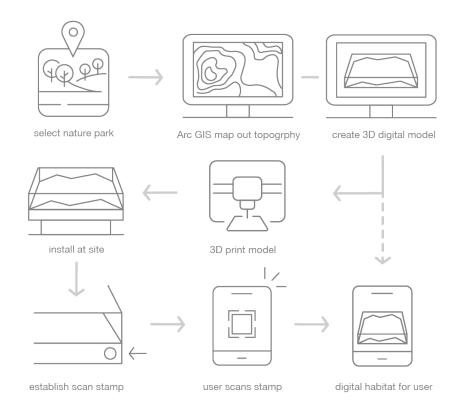
Use of station as de-brief, limited by location and time of use

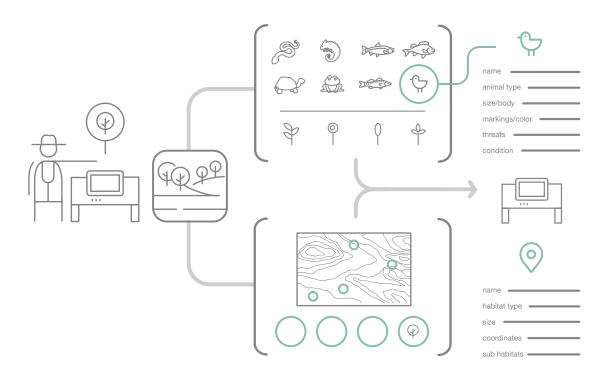


Feasibility

Station Map topography map creation

App Content backend naturalist input





Viability business perspective







Community

Department of Natural Resources



Education

Department of Environment, Great Lakes, and Energy

EGLE

Natural Space

Michigan Nature Association



Identity name & logo



Quicksand Regular 30

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Identity name & logo





