



EMOTION EXPLORERS

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OUR TEAM



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Ronel Solomon



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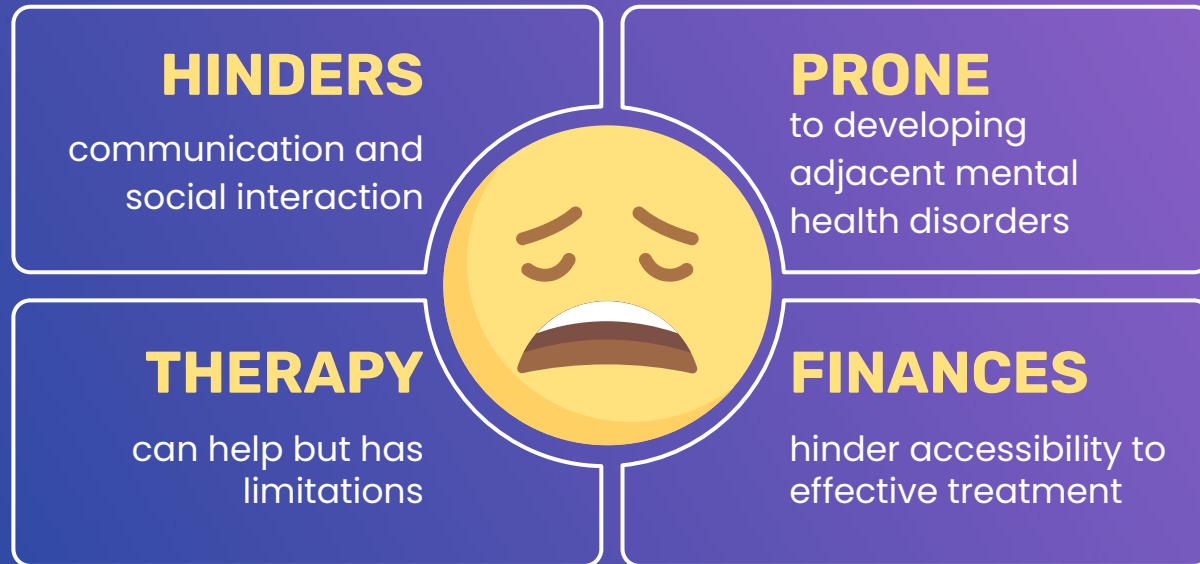
David Ramirez



Yi-Fang Tsai

PROBLEM

People with Neurodevelopmental Disorders (NDDs)
Difficulty with emotion regulation and understanding social cues



WHAT ARE NDDs?

Neurodevelopmental Disorders (NDDs) ^[1]

- Affect brain development from childhood (sometimes adulthood)
- Leads to difficulties in social, cognitive, and emotional functioning

Types of NDDs ^[2]

Autism Spectrum Disorder (ASD)

Attention-Deficit/Hyperactivity Disorder (ADHD)

Learning Disability

Intellectual Disorder

Epilepsy



IMPACT

From 2019 to 2021, developmental disability diagnoses in US children aged 3–17 years increased from 7.40% to 8.56%. [\[cdc\]](#)

In 2017, an estimated 5.4 million (2.21%) of adults over 18 in the US have ASD. [\[cdc\]](#)

This affects the daily lives of millions of individuals with NDDs and their families, friends, and communities.

CUSTOMER INTERVIEWS

Insights from domain experts and potential customers informed our design:

*Dr. Kittiphat
Wedthanyaporn*

Pediatric Specialist

"Many of my patients lack sufficient treatment because of financial constraints."

Dr. Neha Bhasin

Neuroscientist

"Since the brain is so complex, we have a significant gap in translating research findings into resource-intensive treatments."

"Reuben"

*Potential Customer
(Asperger's)*

"I have trouble with eye contact; I rely more on tone of voice to gauge someone's emotions."

June-Wei Yu

*Occupational
Therapist*

"I have found role-playing, using cards, and gamification to be engaging elements that are very effective."

"Noah"

*Potential Customer
(Epilepsy)*

"I like asking ChatGPT about social situations because I get an answer right away and I don't feel judged."

DESIGN BACKED BY DOMAIN EXPERTS

We incorporated the insights from our interviews as elements in our solution.

*Dr. Kittiphat
Wedthanyaporn*

Pediatric Specialist

"Many of my patients lack sufficient treatment because of financial constraints."

**FREE-TRIAL
OFFERING**

Dr. Neha Bhasin

Neuroscientist

"Since the brain is so complex, we have a significant gap in translating research findings into resource-intensive treatments."

**ACCESSIBLE
VIA WEB**

"Reuben"

*Potential Customer
(Asperger's)*

"I have trouble with eye contact; I rely more on tone of voice to gauge someone's emotions."

**LEARNING
CENTER**

June-Wei Yu

*Occupational
Therapist*

"I have found role-playing, using cards, and gamification to be engaging elements that are very effective."

**SCENARIO
TRAINING**

"Noah"

*Potential Customer
(Epilepsy)*

"I like asking ChatGPT about social situations because I get an answer right away and I don't feel judged."

**REAL-TIME
FEEDBACK**

OUR SOLUTION

A real-time Web-App that leverages computer vision to identify emotions from facial expressions

DYNAMIC



and interactive
learning/therapy
environment

REAL-TIME



with own facial
expressions
identifier

CONTEXTUAL

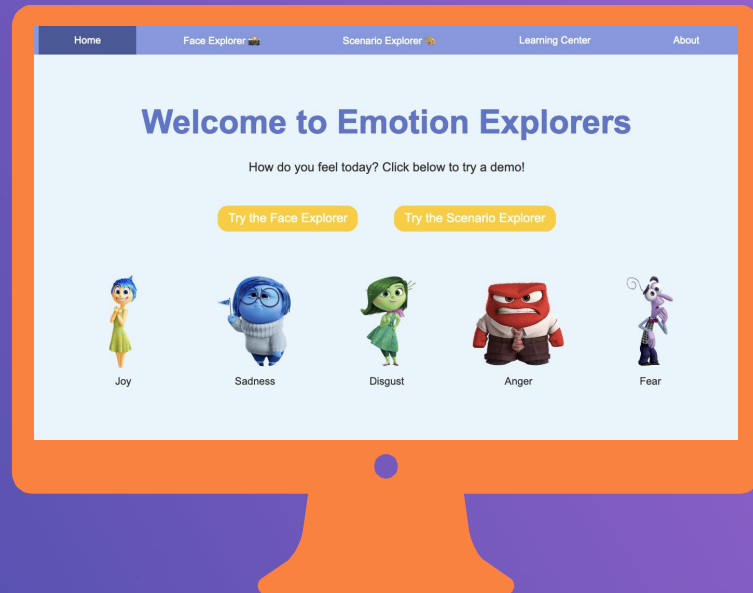


scenario-based
facial expression
training

INTRODUCING EMOTION EXPLORERS

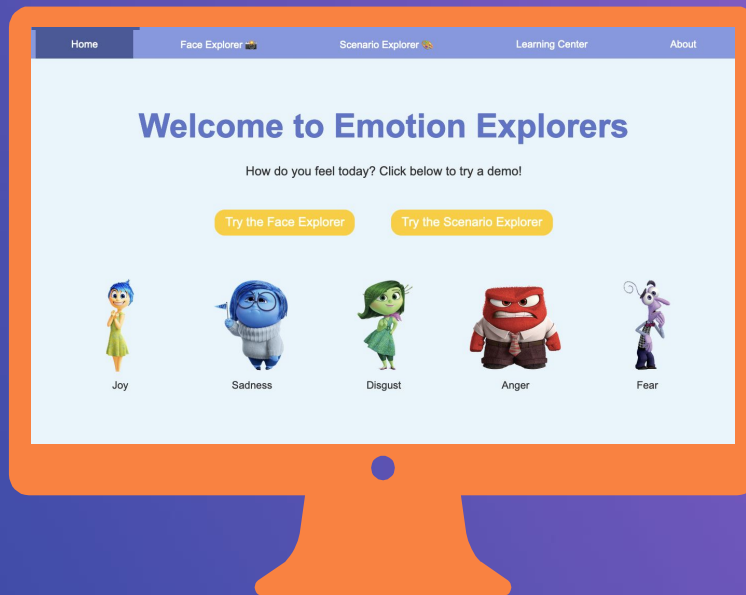
Features:

- Realtime own facial expressions identifier with dynamic feedback.
- Scenario-Based training: practice appropriate facial expressions based on the context of a scenario.
- Learning Center: glossary of emotions and their definitions.



INTRODUCING EMOTION EXPLORERS

DEMO



TECHNOLOGY

COMPUTER VISION

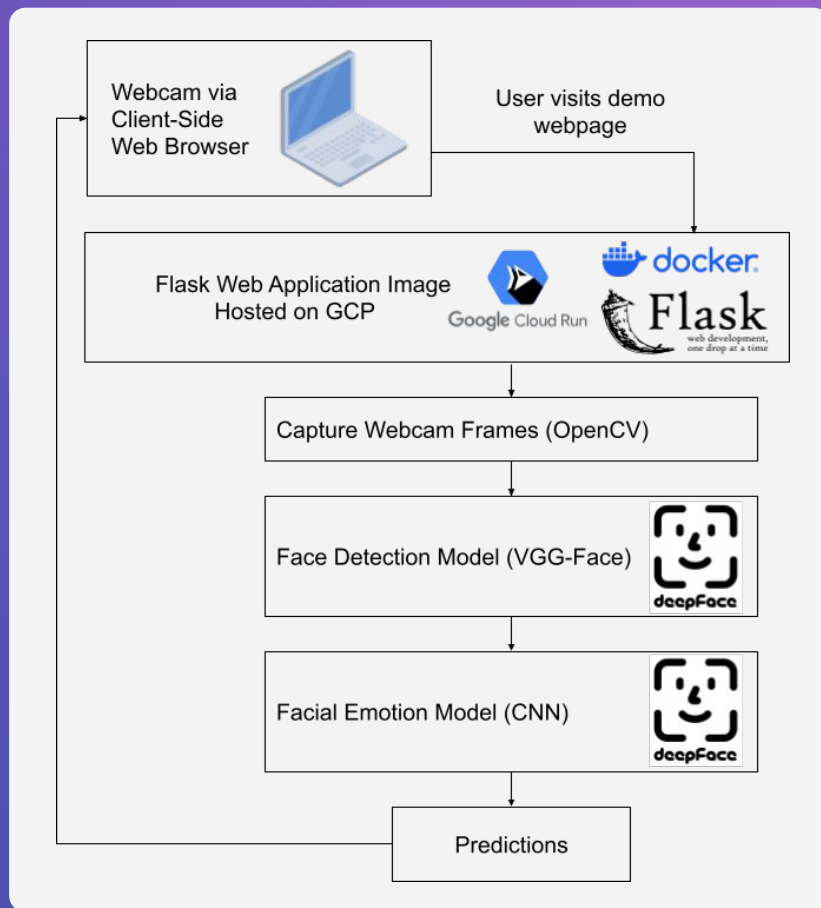
Dynamically detect facial expressions

CONTAINERIZATION

Enhanced portability and flexibility

ENGAGING UI/UX

Fun color palette and clear verbiage



THE MARKET



NDD: 1 in 12 children [6 Million]
Autism SD: 1 in 36 children [2 million]
(Source: CDC)



And medical institutions

Market Goal: 500,000 users on Year 5



OUR COMPETITORS



- **Apple Vision Pro**

VR headset, can detect emotions.
! Not tailored to users with NDDs.



- **LetMeTalk**

Speech accessibility app.
! No facial expression capabilities.



- **Speech and Language Therapy**

Role-playing training to recognize facial expressions.
! Expensive and long waitlists.

ROADMAP

MULTIMODAL



incorporate
tone of voice

PERSONALIZATION



progress reports,
user stats

GAMIFICATION



points system



THANKS!

Do you have any questions?

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