



start a project

search

find

alex coanda, Logout

film

literature

photography

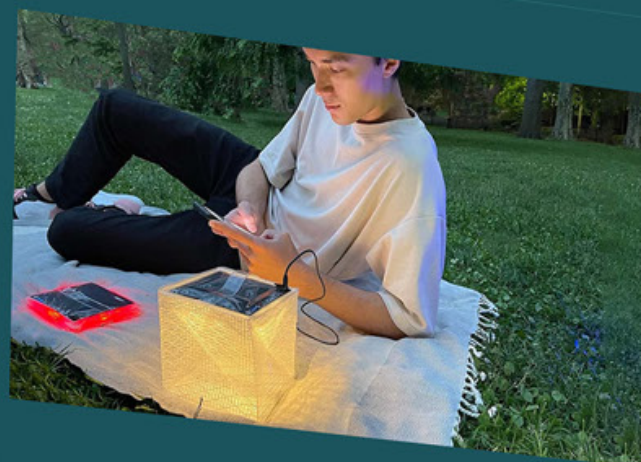
music

art

games

technology

FEATURED PROJECTS



MEGAPUFF: Origami Solar Power Bank And Light

Bigger + CHARGE YOUR PHONE! Now with Phone Charging the MEGAPUFF towers over its predecessor, the Solarpuff, the MegaPuff boasts a larger form factor, providing an even more expansive area of light coverage. With its enhanced size, the MegaPuff is designed to illuminate vast spaces, making it ideal for outdoor gatherings, camping adventures, and emergency situations where maximum visibility is crucial. Greater POWER + LIGHT. Say goodbye to a [...]

alex coanda

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successfully
funded
projects



Prepared for
FSD07 - WD2

Prepared by
Arjun Dhakal
Mihai Coanda
Mackenzie Sawyer

June 16, 2023

Project Overview

Building a crowdsourcing platform similar to the KickStarter investment model, focusing on fundrasing for different artistic ventures: music, indie film, art instalations, photography projects etc.

Functional Requirements

- user registration
- project creation
- contribution submission
- project browsing
- project sorting

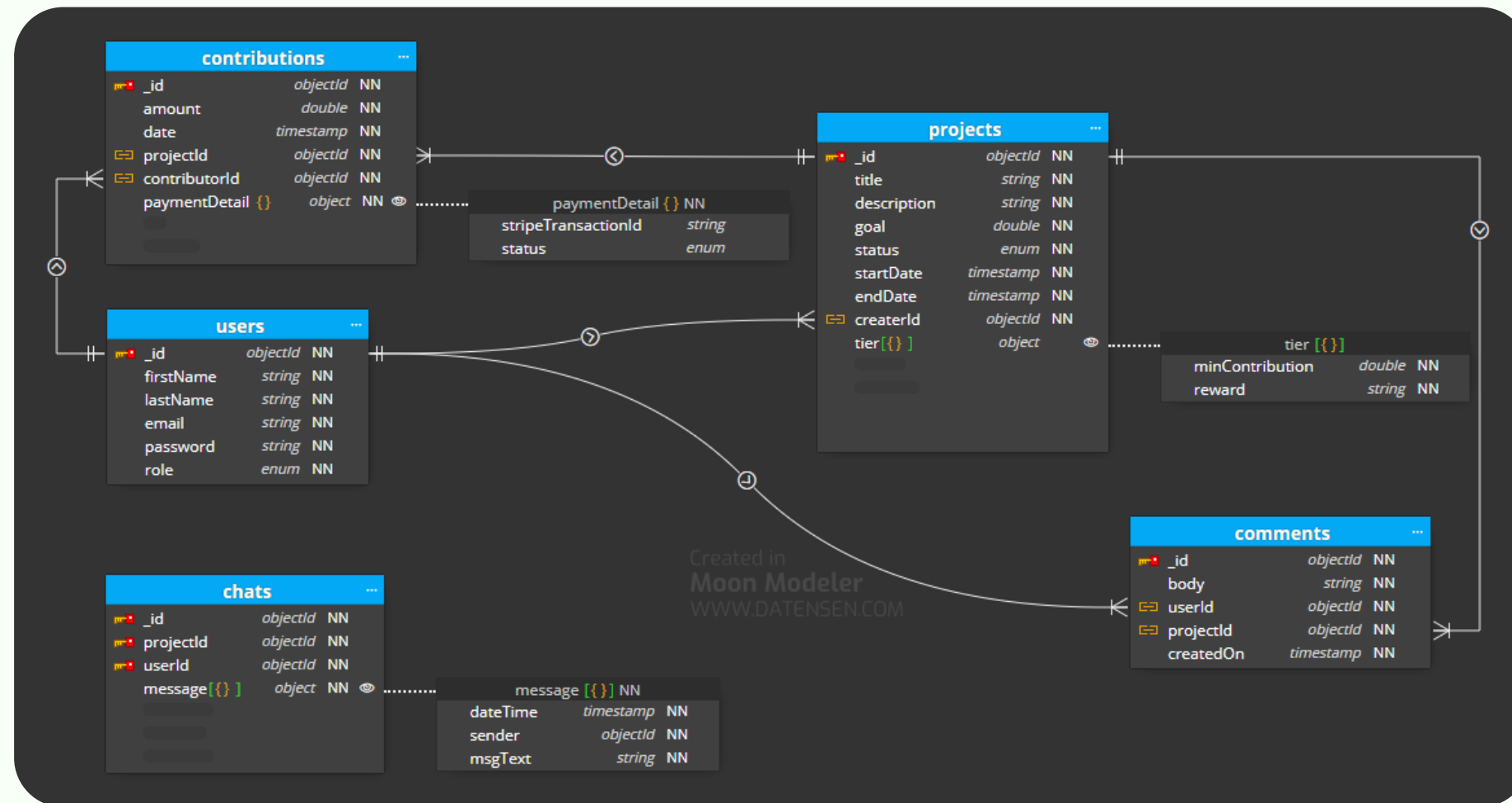
Non-Functional Requirements

- fast and responsive page load times
- secure payment processing
- intuitive user interface
- support for many concurrent users

Technologies used

- - React
- - Next.js
- - Node package manager
- - Bootstrap
- - Firebase
- - Stripe API
- - HTML
- - Javascript
- - CSS

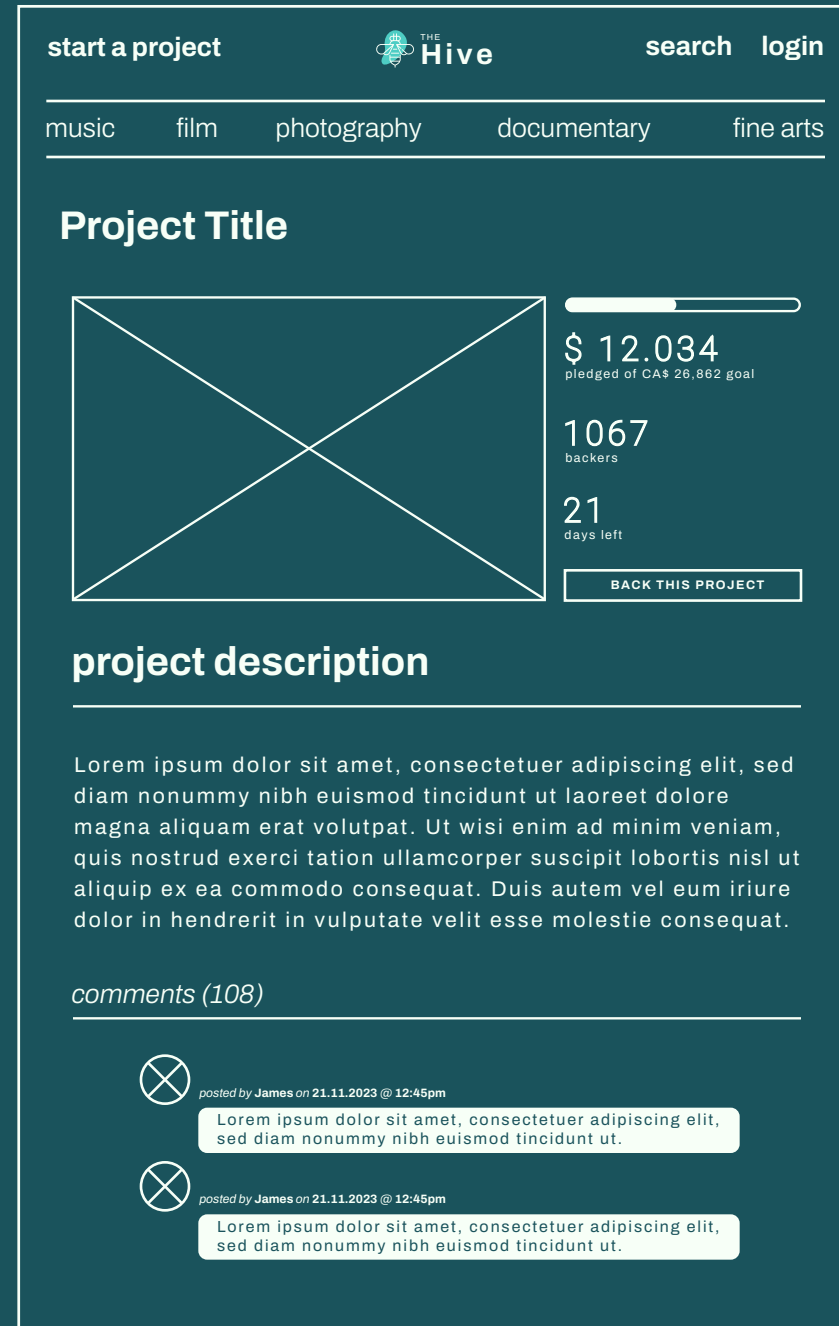
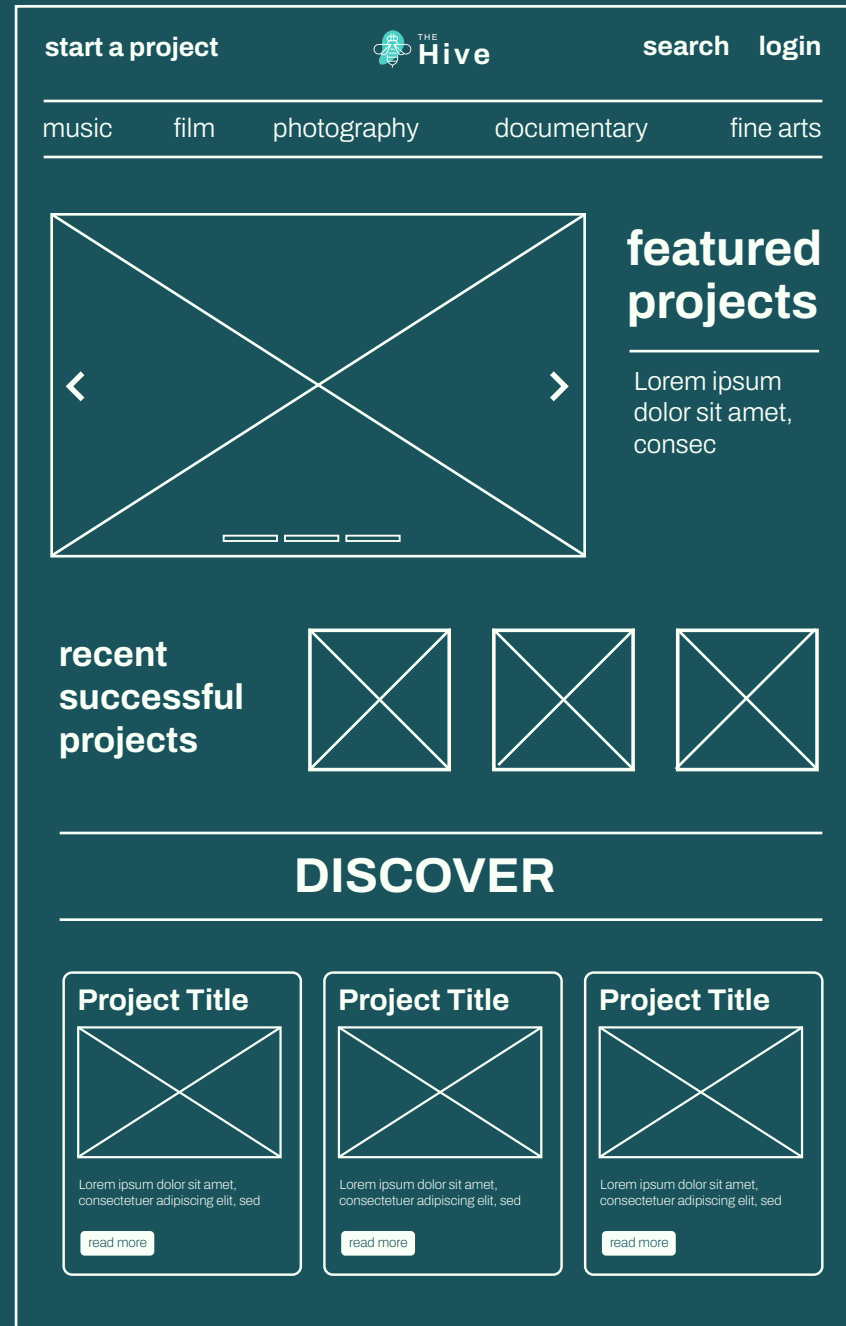
Database Design & Use Case



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search	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
browse	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
register	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
login	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
user profile	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
create project	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
project CRUD	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
back project	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
comment	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
message	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

visitor
user
admin

Wire Frames Examples



As highlighted in our previous projects, wireframes play an essential role in getting the project off the ground, by providing a clear roadmap.

Furthermore they help identify and prioritize tasks.

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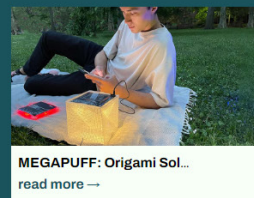


MEGAPUFF: Origami Solar Power Bank And Light

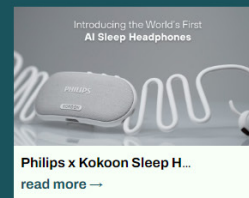
Bigger + CHARGE YOUR PHONE! Now with Phone Charging the MEGAPUFF towers over its predecessor, the Solarpuff, the MegaPuff boasts a larger form factor, providing an even more expansive area of light coverage. With its enhanced size, the MegaPuff is designed to illuminate vast spaces, making it ideal for outdoor gatherings, camping adventures, and emergency situations where maximum visibility is crucial. Greater POWER + LIGHT. Say goodbye to a [...]

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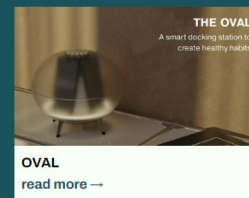
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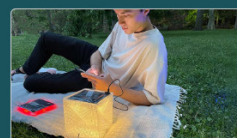


Philips x Kokoon Sleep H...
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Discover & Share



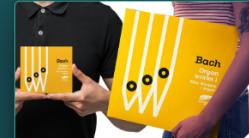
MEGAPUFF: Origami Solar Power Bank and Headphones
Bigger + CHARGE YOUR PHONE! Now with Phone
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Philips x Kokoon Sleep Headphones
Story Say goodbye to short nights and embrace the
[read more →](#)



OVAL
Story Hi, we are Present - a brand dedicated to enabling a
[read more →](#)



NOT just another Bach recording: a community Story
NOT just another Bach organ recording! Indeed, not just
[read more →](#)

Site Features


personalized menu

category selection

dynamic slideshow

reactive UI

Site Features



start a project


search

find

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film literature photography music art games technology

Philips x Kokoon Sleep Headphones



Introducing the World's First
AI Sleep Headphones

project description

Story Say goodbye to short nights and embrace the ultimate sleep experience with Sleep Headphones. These revolutionary buds were designed to help you fall asleep and stay asleep even in the noisiest environments. In a powerful partnership with Philips, our team of expert scientists brings unparalleled expertise in the field of sleep science right to the comfort of your bed. We spend a third of our lives sleeping, and it's been scientifically proven that sleep is incredibly important for our health, happiness, performance, and relationships. Yet, so many of us leave sleep to chance. At Kokoon, we believe we can all sleep better through science. This is why we've teamed up with one of the worlds leading technology brands, Philips, to create the ultimate sleep solution: Sleep Headphones.

STATS

\$3000

pledged of CA\$ 2500 goal

1

back

35

days left

Tiers and rewards

CONTRIBUTION

\$25

REWARD

Back it because you believe in it. Support the project for no reward, just because it speaks to you.

CONTRIBUTION

\$140

REWARD

Limited super early bird Sleep Headphones for \$175: Save \$110.88 (Retail Price \$285.88)

CONTRIBUTION

\$195

REWARD

6 items included+ optional add-ons Philips x Kokoon Sleep headphones, 1-year access to the Kokoon digital sleep coach & sound library+4 More




BACK THIS PROJECT

Join the conversation

Write a comment...

POST COMMENT

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Let's connect:   

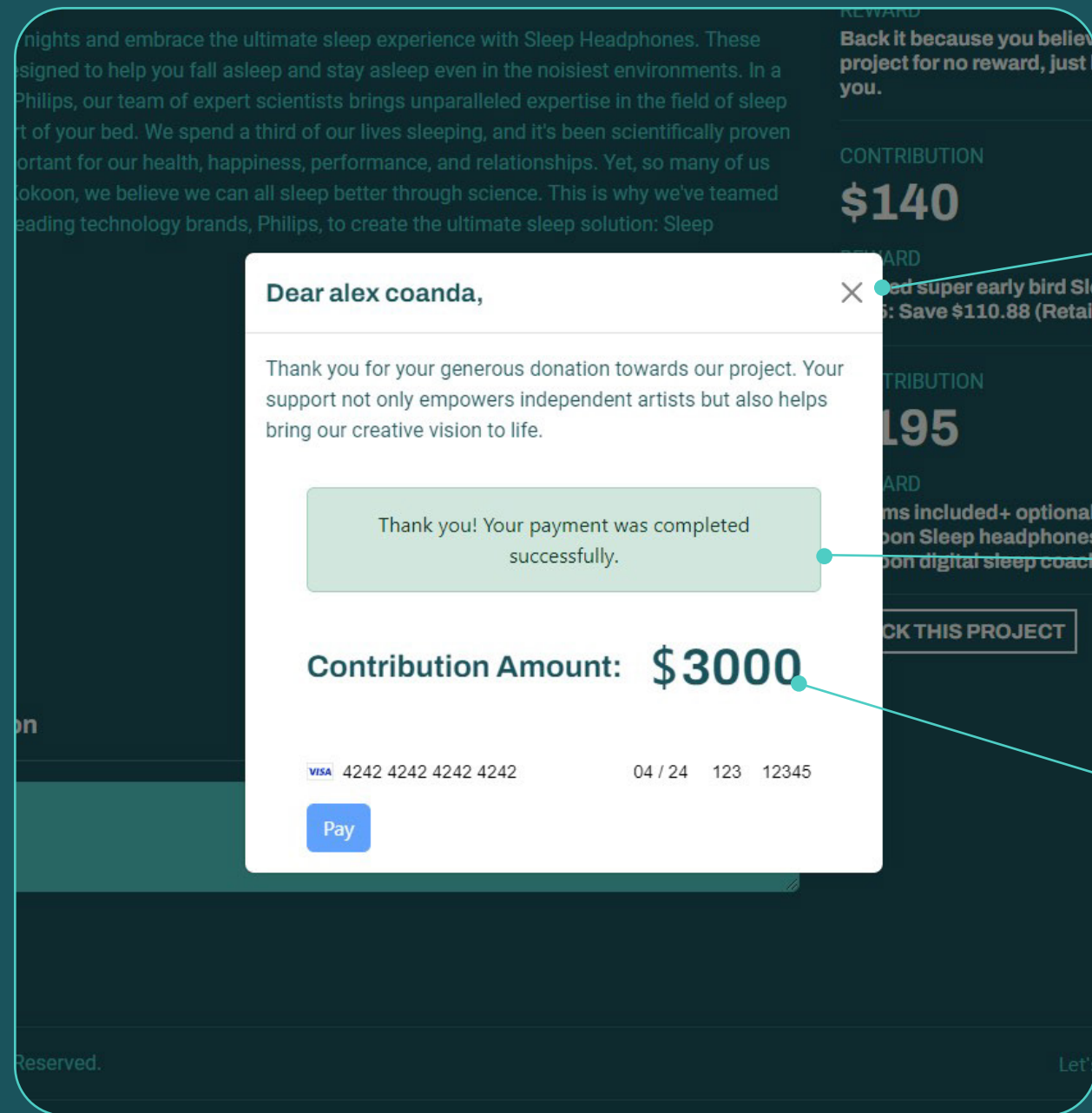
dynamic visualisation

live reload fields

selective UI rendering
(user vs. visitor)

comments section

Site Features



personalized payment
pop-up

payment success / error

minimum contribution
validation

Challenges

- time management, prioritizing tasks and functionalities while allowing time to learn new skills
- solution: frequent team meetings, support from teammates + teacher, sharing learning resources
- routing API server side functions - ex: Stripe API needed `pages/api/create-payment-intent.js`
- passing a prop from parent component to child component & modal
- ex. `projectDetails.js` passes 'projectId' to `CheckoutForm.js`, `StripeModal.js` & `Comments.js`

Challenges

- submit "contributions" & "comments" collections to parent collection, "projects"
- link with user UID & projectId
- Javascript conditional CSS & dynamic CSS
- Callback functions
- ex. when pulling records from database they would not populate field immediately, solution: useState

Challenges

- Firebase database
- no-cost limit reached during development (useState code firing automatically, solution: useEffect)
- learning Firebase (not a SQL style database - change our approach to database design because there are no foreign keys linking tables)
- difficult to categorize by fully funded projects (successfully funded projects), loop by n^2 , inefficient way to sort because each project have to loop through all contributions
- Flaw in database design, we need alternative solution, update 'status' of project to completed when total 'contributions' \geq to 'goal' amount, add function that calculates this status

thank you

Arjun Dhakal // Mihai Coanda // Mackenzie Sawyer