

MiniMi

Problem Statement: Health SACAC counseling



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Introduction

1 in 15 People suffer from depression in Singapore

Depression claims countless lives every year, tragedies that could have been prevented.

We aim to combat this epidemic with our application

Our Solution

Mobile app MiniMi

Minimi is an app targeted at people suffering from depression by providing them companionship in the form of a virtual pet.

Users have a pet that they take care of by performing tasks that can act as therapy for the user.

It is aimed at encouraging users to look after themselves and engage their communities



Goals for the app

1. We want to help users stay physically healthy by exercising and eating healthy
2. We want to help users get healthy amounts of sleep
3. We want users to form new relationships with others
4. We want to help users manage their stress

What Sets Us Apart

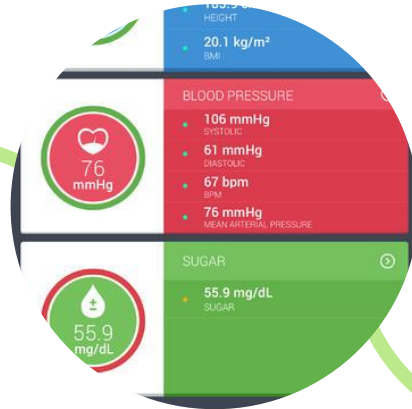
Pets are known to alleviate depression, however are a big responsibility and hard to maintain

Health Trackers and not specific to those with depression, not interactive or interesting enough to constantly update

Therapy is generally infrequent, hard for therapists to monitor you, and is expensive

Health Tracker

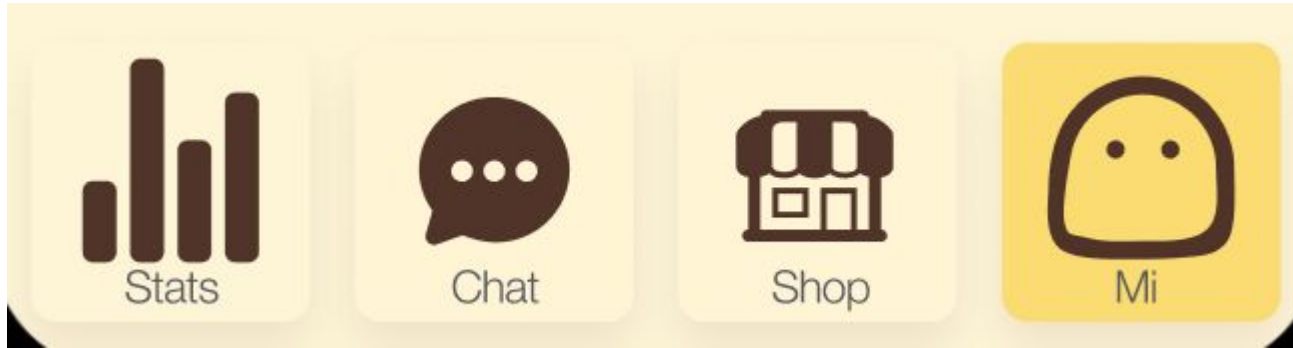
Pets



Therapy



4 Main Pages



Mi page

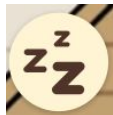


MiniMi interaction

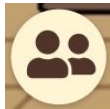
Exercise



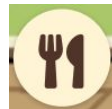
Sleep



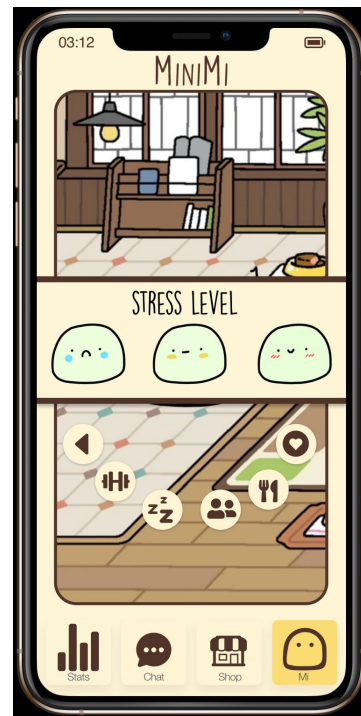
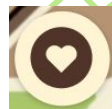
Social



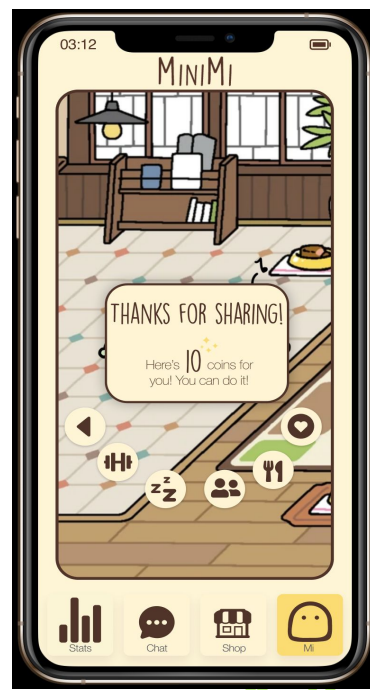
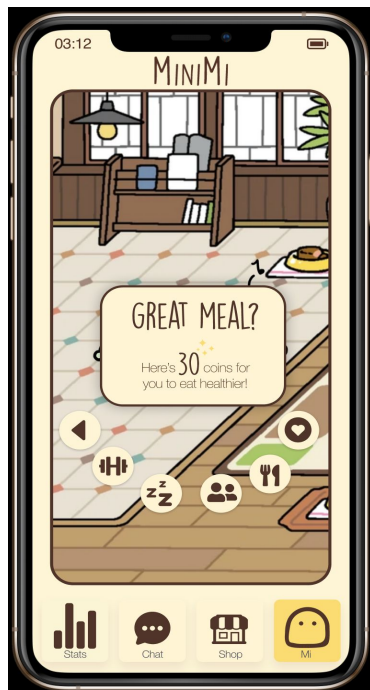
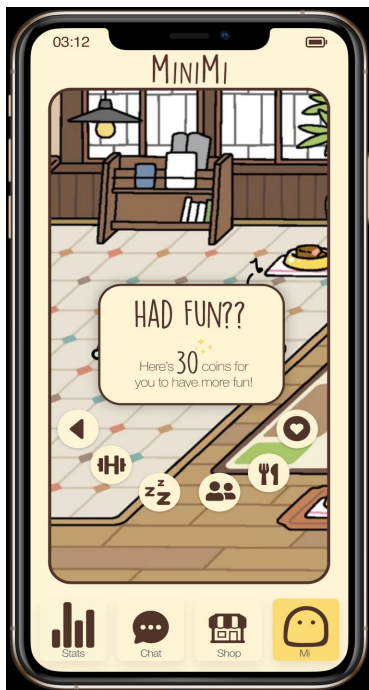
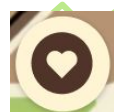
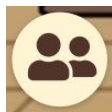
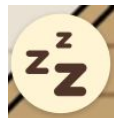
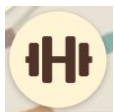
Nutrition



Stress



Rewards





MiniMi interaction Feature

Function

- Allow user to interact with MiniMi by inputting their various aspects of their daily life e.g. sleep, diet, exercise etc.
- Minimi depicts the user both physically and mentally.
- All interaction awards users coins to provide positive reinforcement, encouraging them to form healthy habits

Tech aspect

- All data collected will be monitored and presented in the form of a easy to understand graph
- All data is passed through algorithms to monitor the users performance and provide statistics for them

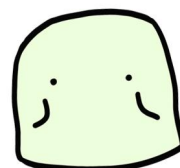
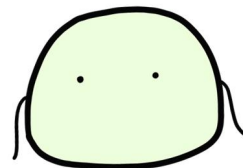
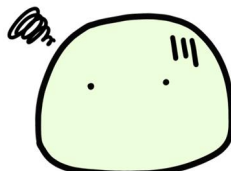
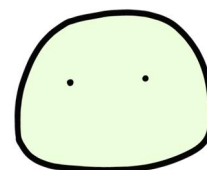
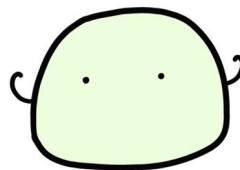
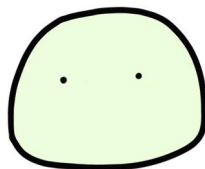
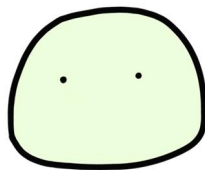
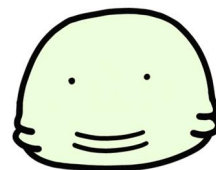
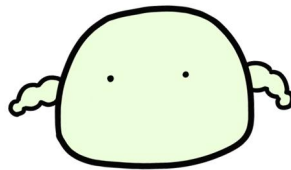
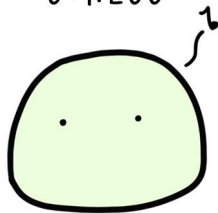
SOCIAL

SLEEP

STRESS

FITNESS

NUTRITION



BEST COMBINED

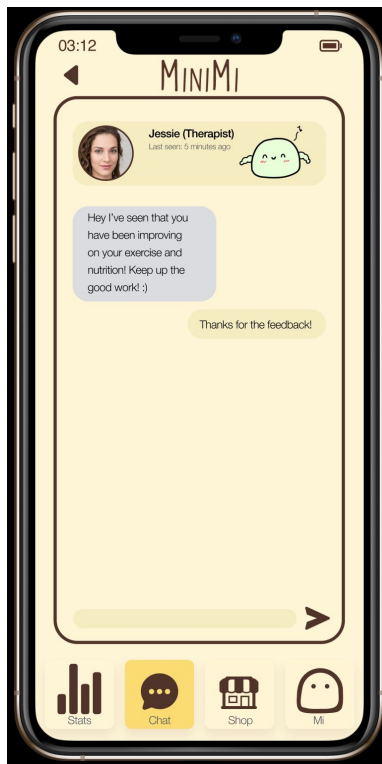
WORST COMBINED



Design

- UI/UX of MiniMi was fully designed from scratch to suit the needs of the user
- Friendly character design with clean/light colours
- Each category has one feature to depict the state of the MiniMi: Social -> mouth and cheek, Sleep -> eyes etc.
- Stacking of these feature will show the final design of the user's MiniMi

Chat page



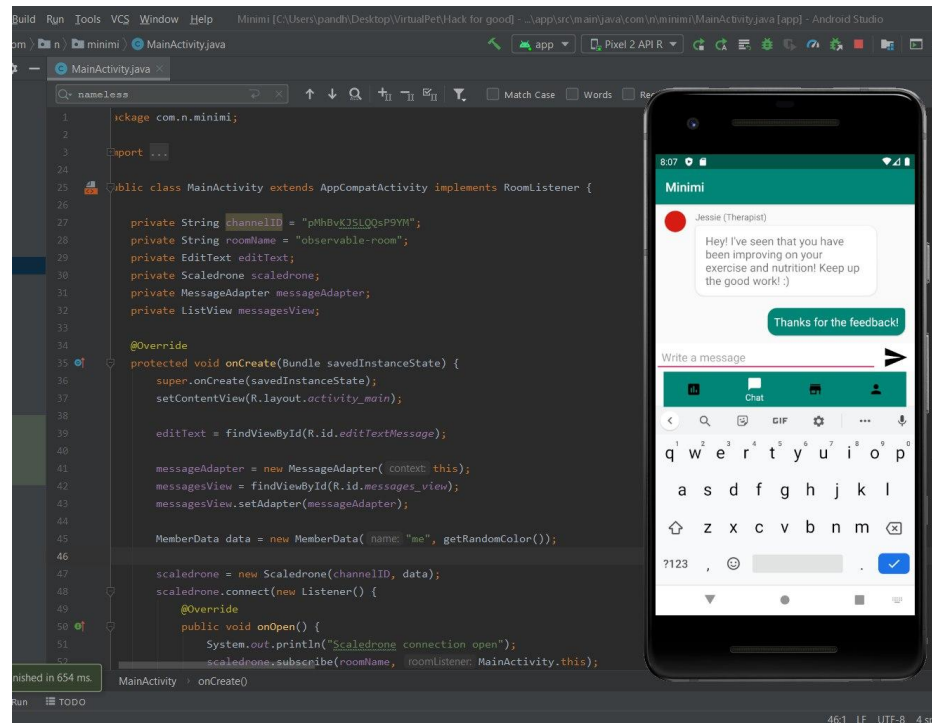
Chat Feature

Function

- A way for the user to connect with his/her friends
- A way to pass words of encouragement to one another
- Provides therapists a easy way of remaining in contact with users

Tech aspect

- Implementing websockets into the App for live chat
- Connect to Scaledrone API



Stats page



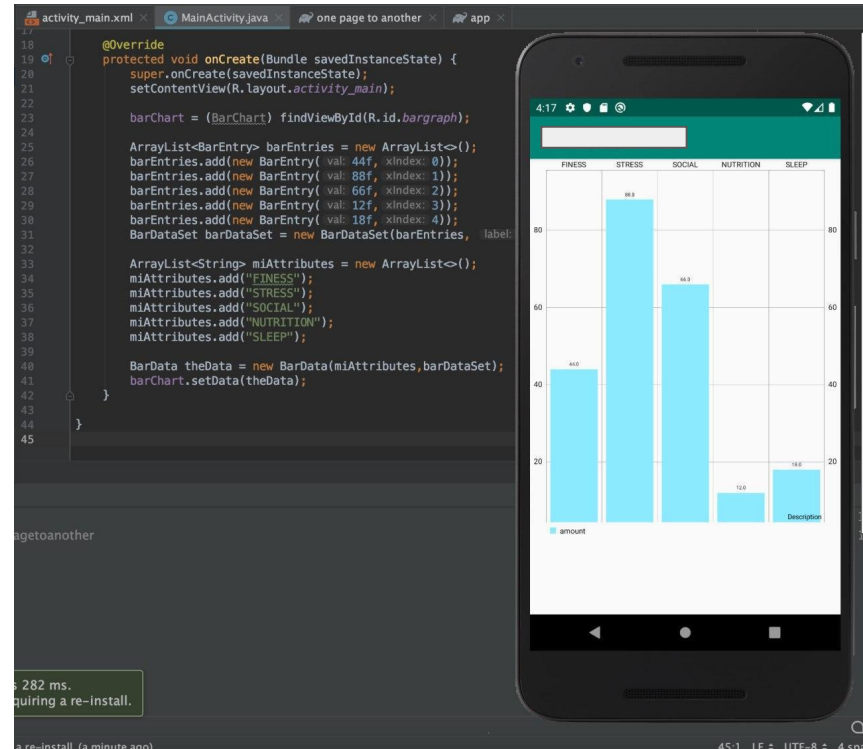
Stats Feature

Function

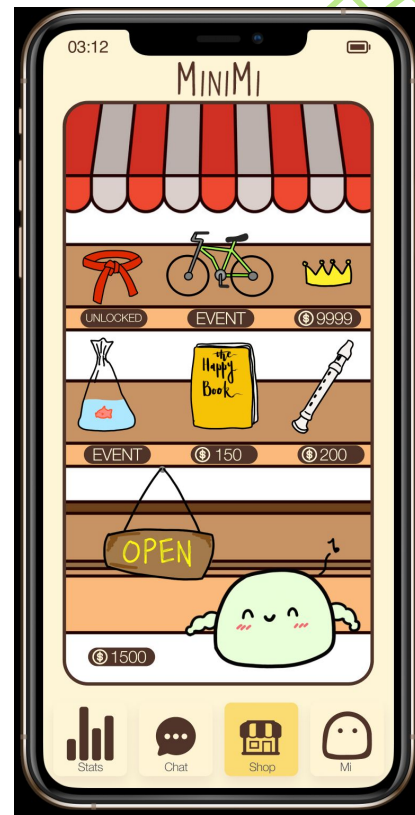
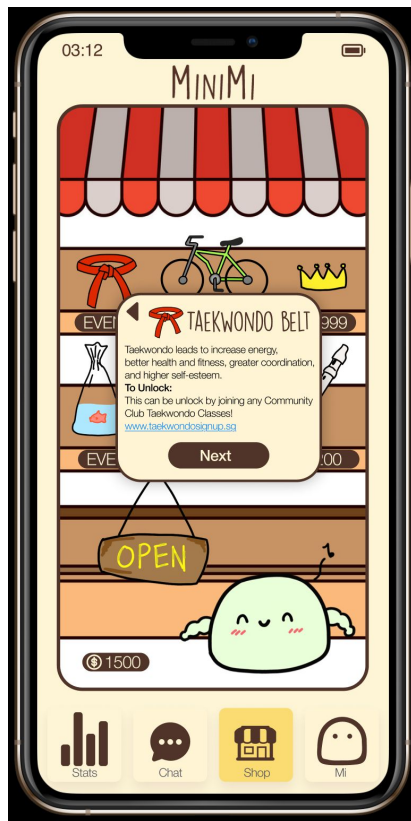
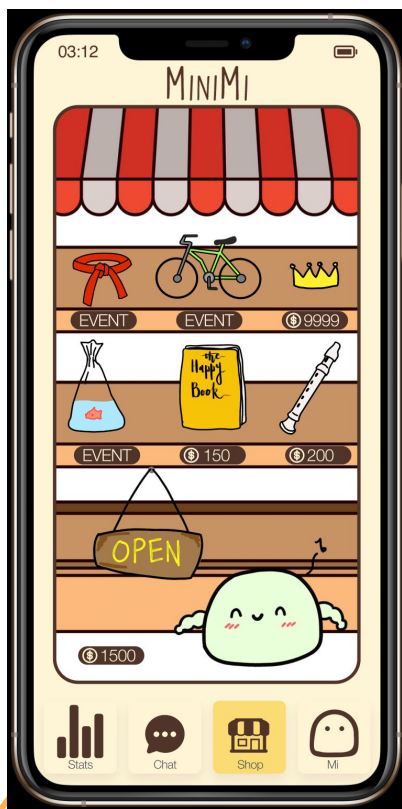
- Keeps track of user statistics
- Allows for data to be accessed by healthcare professionals (with consent)
- Allows users to visualise strengths and areas for improvement

Tech aspect

- Data is stored locally and on MongoDB
- Dashboard frontend that connects to the database for access (to be built in the future)



Shop page







Shop Feature



Function

- Shop allows the user to browse through items that require different methods to unlock
- Certain items require user to do special activities in order to receive unlock codes, encouraging users to step out of their comfort zone and try new things
- Encourages users to continue updating the app as a form of incentives

Tech aspect

- Community Centres and other organizations in charge of activities will be given a unique pin to give users who participate the particular item.
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Tech Stack



Prototype

Figma

UI/UX

Adobe Photoshop,
Illustrator, XD
Procreate (character
creation)



Functional Product

Android Studio
Kotlin
Java
Scaledrone
MongoDB
SQLite





Challenges we ran into



- Designing a suitable character meeting all 5 aspects we were trying to tackle.
- Technical challenges implementing online real time chat platform.
- Coming up with a suitable algorithm to calculate user statistics.

What's Next

- We hope to get onboard various community centre activities and various other organisations on board.
 - Have therapists willing to design treatment with our application in mind
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Link to our code on GitHub



<https://github.com/yu-ming-chen/MiniMi>



Thank you!

Team MiniMi

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Do you have any questions?

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