



# KidsLoveFun

Experience Studio Project  
Spring 2021

# Meet The Team



**Gabriella Goss**  
Team Lead



**Rheaa Kamath**  
Team Lead



**Skyler Beld**  
Team Member



**Sarah Deak**  
Team Member



**Walter Dorau**  
Team Member



**Sophie Haydar**  
Team Member



**Aidan Sabatino**  
Team Member

# Special Thanks



**Paul Parsons**  
Professor



**Nancy Rasche**  
Professor



**Shelby Benton**  
PO



**Aiza Hazib**  
TA



**Robin Arnold**  
LPO

# Sponsors



**Jingle Chen**




**Tianjie Jia**

# Problem Space

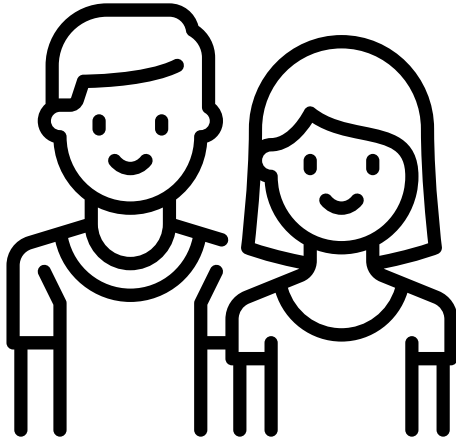


According to our sponsors, the health of children's teeth is at risk, as many children aged 3-6 have issues brushing their teeth correctly. Therefore, **a mobile app that tracks teeth-brushing data** that works in conjunction with our sponsors teeth brushing robot, aims to **visualize toothbrushing data for parents** and **provide information on their child's progress**.



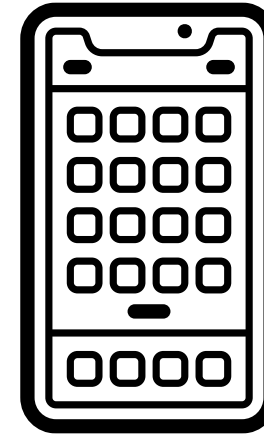
# Clarifications

## User Group



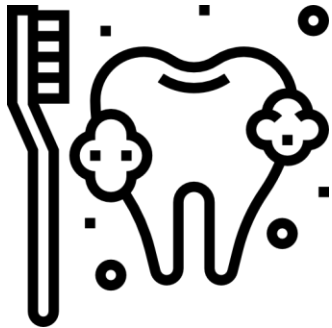
Parents of children ages  
3 - 6 years

## Platform

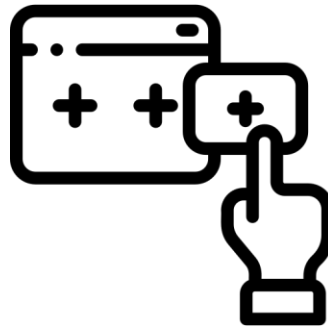


App to help parents to view and  
keep track of child's  
toothbrushing data and progress

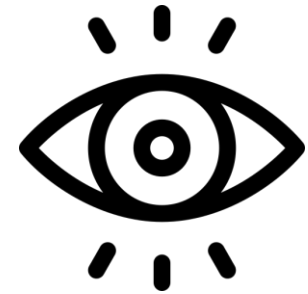
# Project Goals



Fostering Healthy  
Toothbrushing Habits in  
children aged 3-6 years



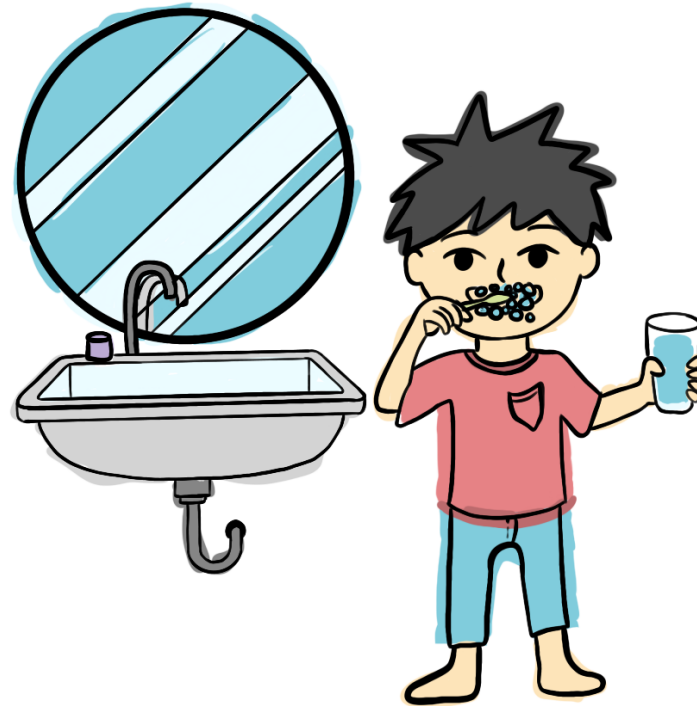
Create an intuitive  
app for parents



Visualize different levels of  
data (basic, detailed, etc.)



# Storyboard



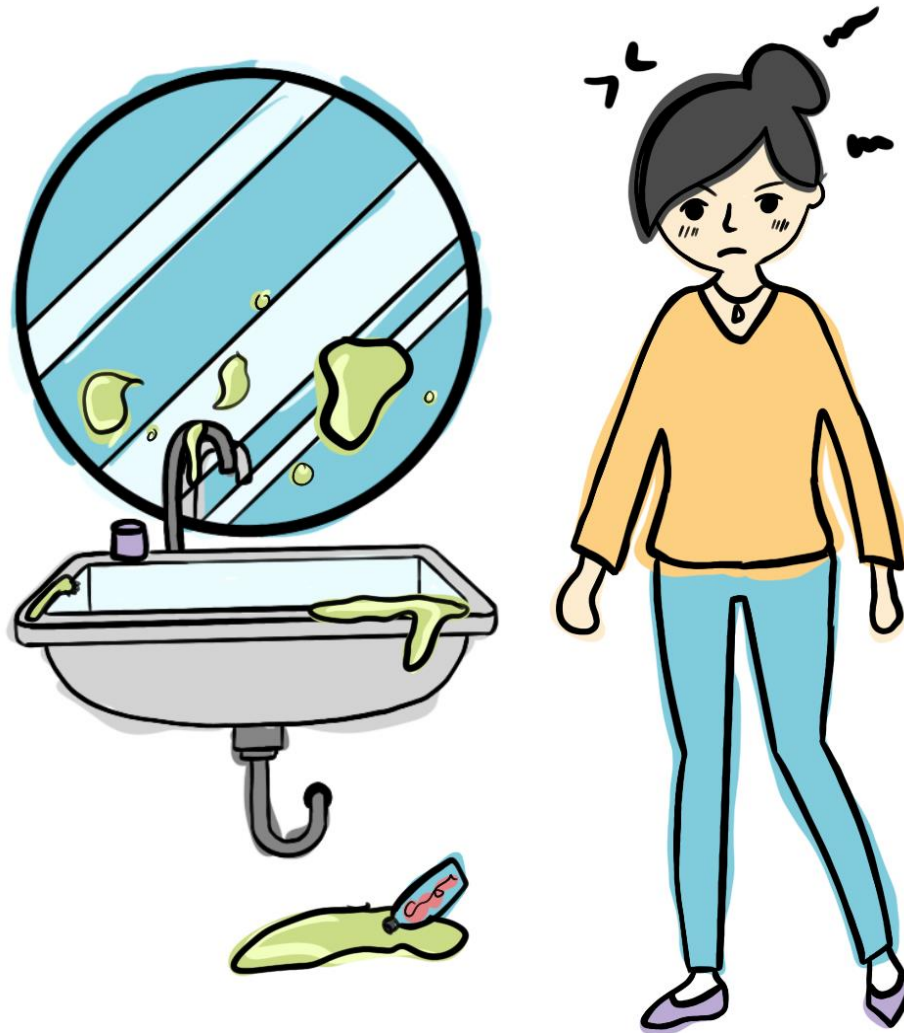
Stephanie has a difficult time managing both children's brushing habits.



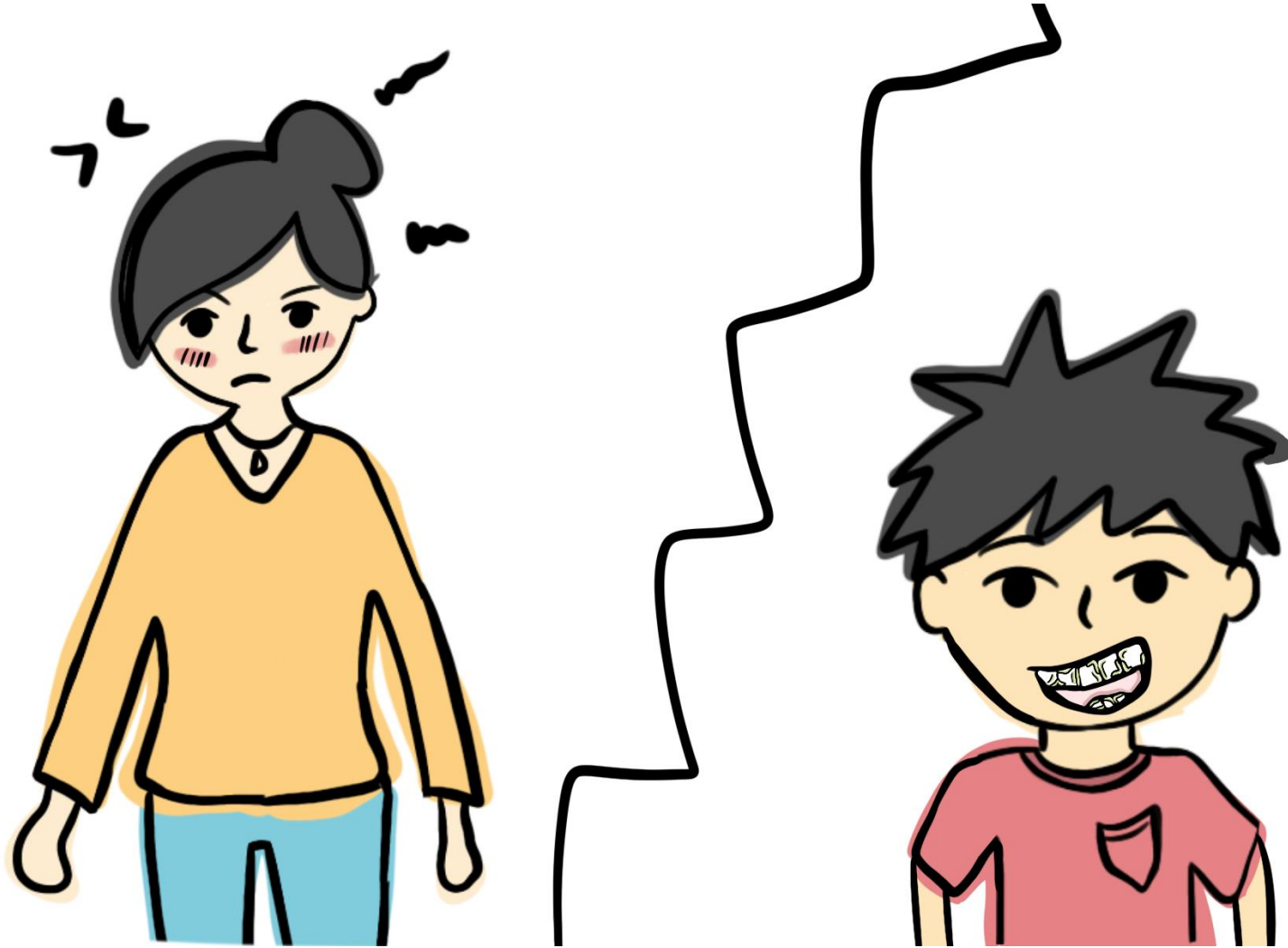
20 Seconds later...



Jeffery, overtime, stops brushing his teeth properly. He is not aware that he isn't brushing for enough time or correctly.

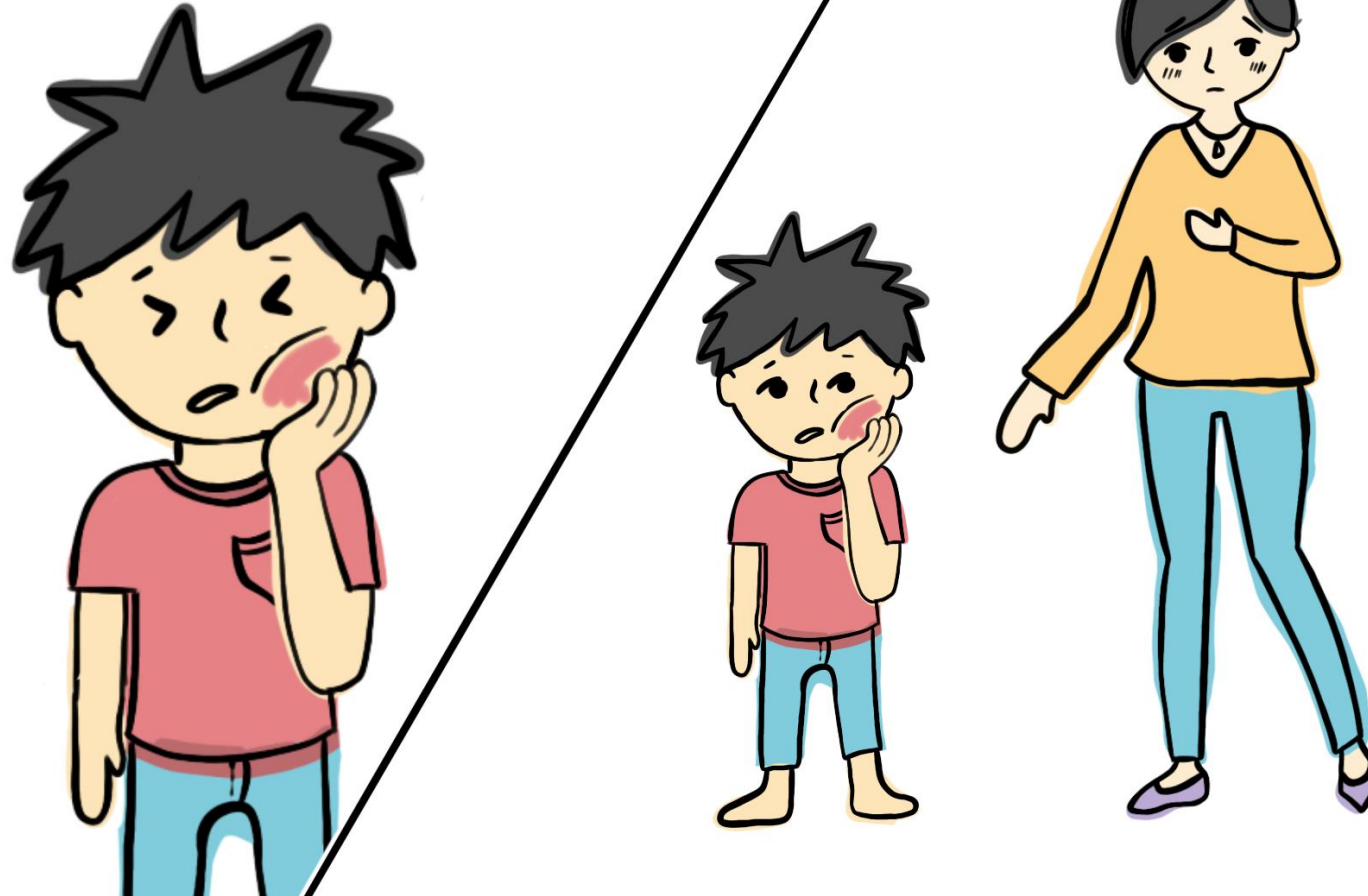


Stephanie does not have enough time to make sure Jeffery has brushed his teeth.

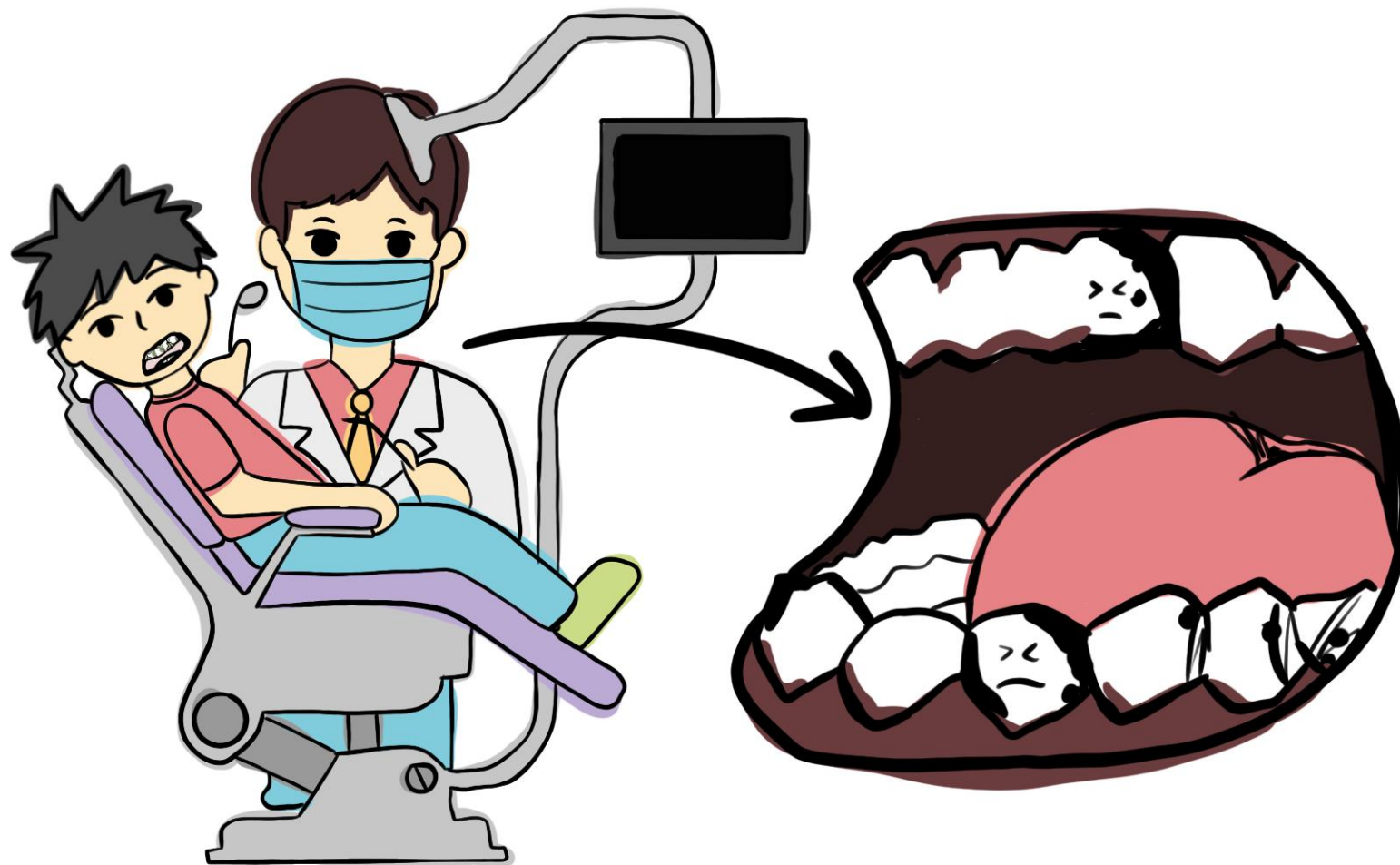


Stephanie often misses or forgets to check up on Jeffery's brushing habits.

SOME TIME LATER...

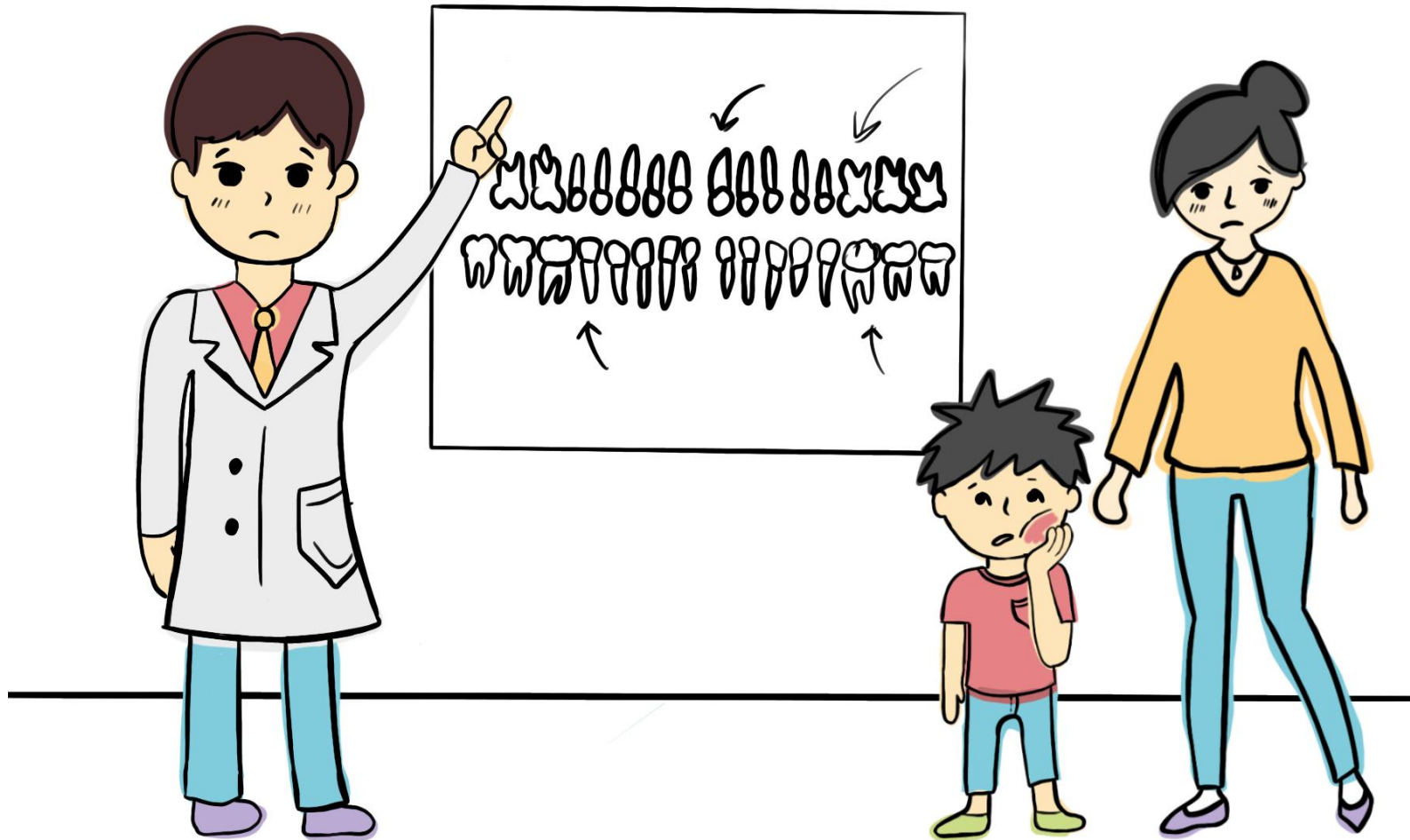


His mom had assumed Jeffery's brushing habits were okay because he didn't complain, and she hadn't been checking.

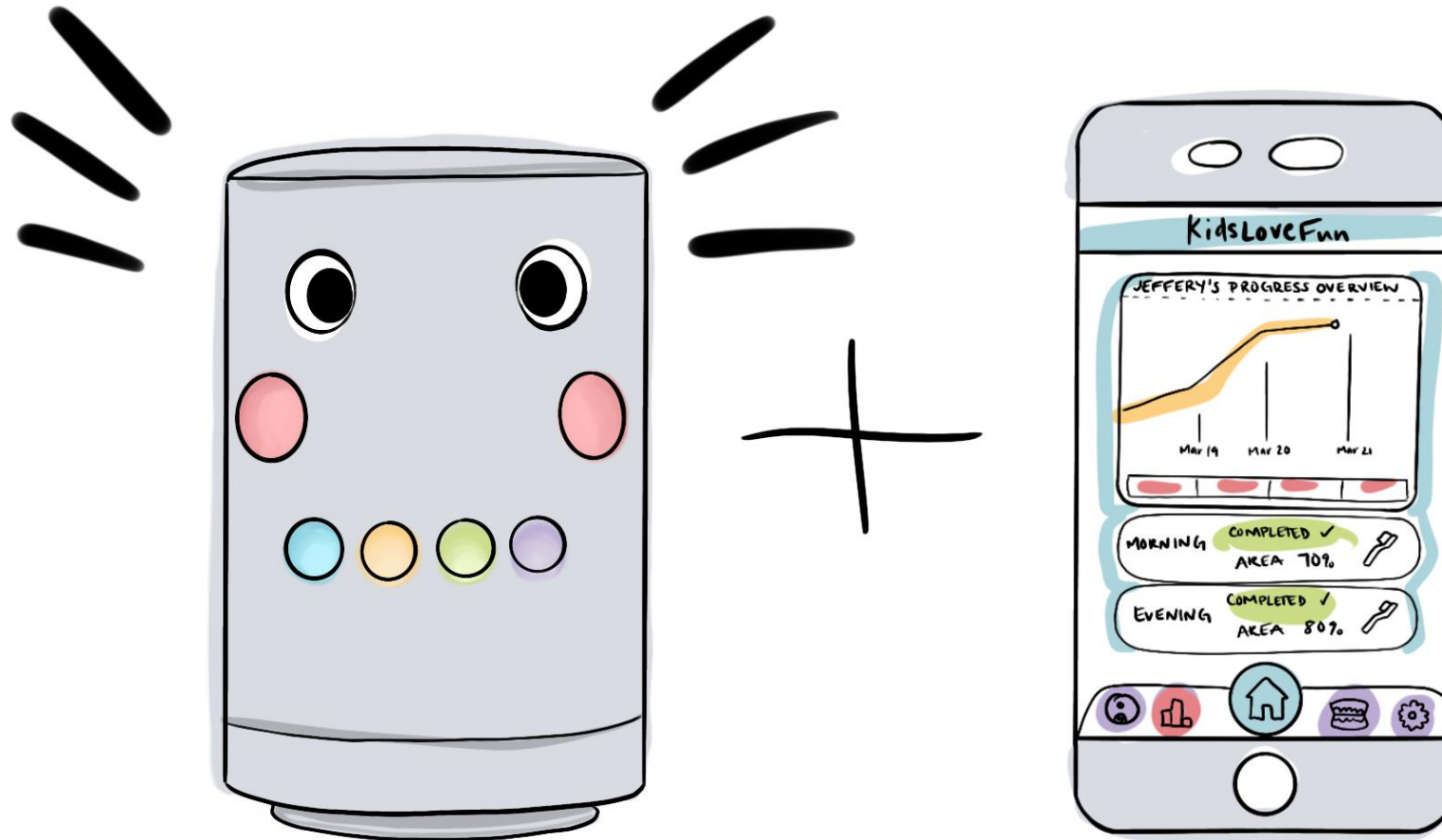


Jeffery has not been brushing his teeth correctly.





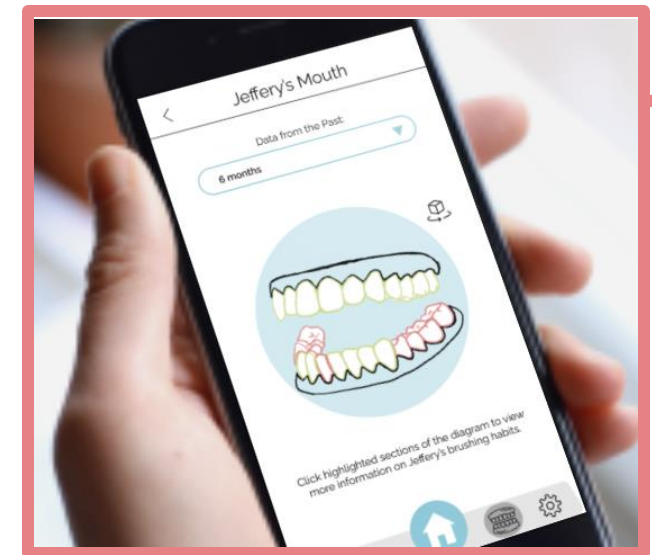
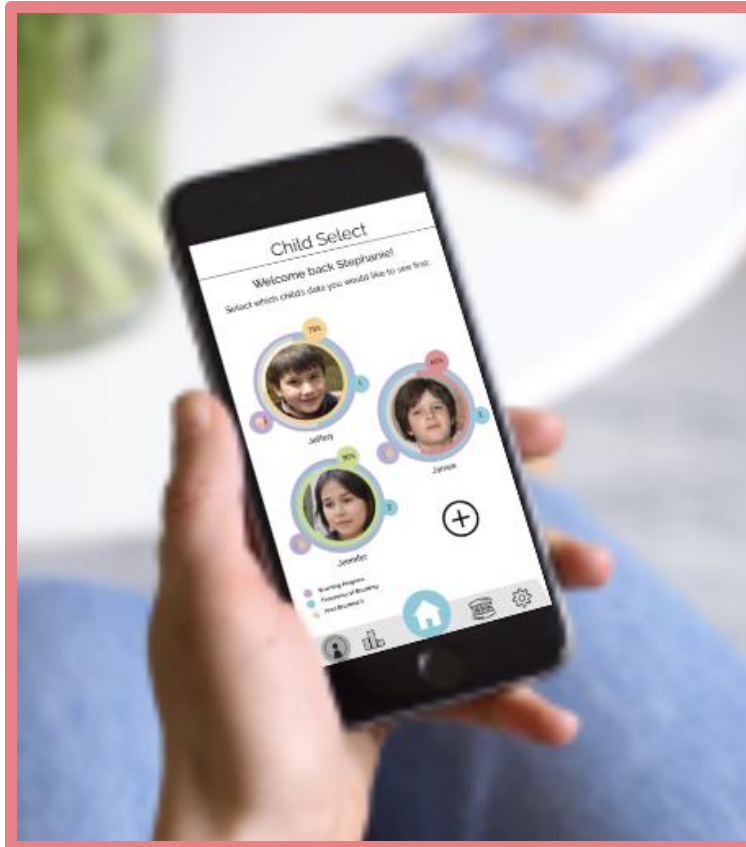
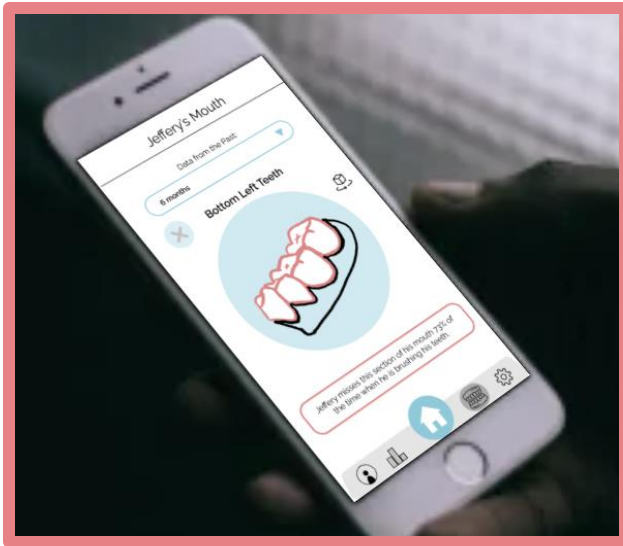
Stephanie had no idea that her son was not brushing his teeth correctly. She feels guilty that he has been in pain.



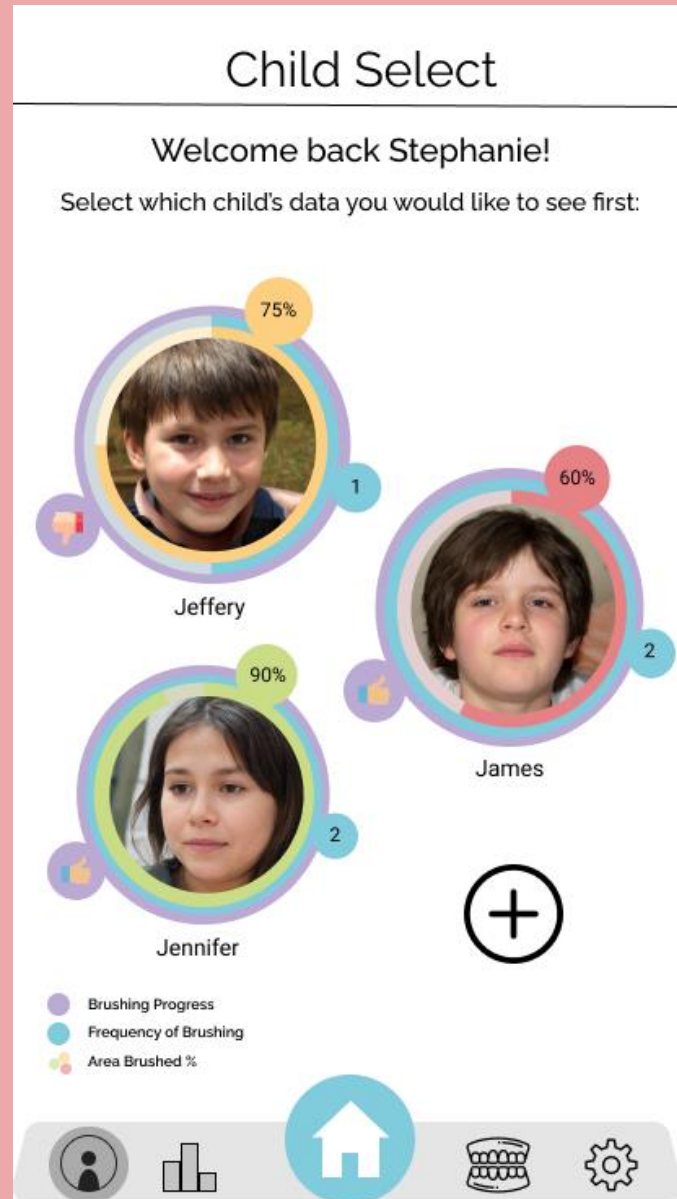
Tody can help Jeffery learn and maintain good brushing habits, & **the companion app will help his mother understand more about his toothbrushing habits.**



# Current Design



# Child Select



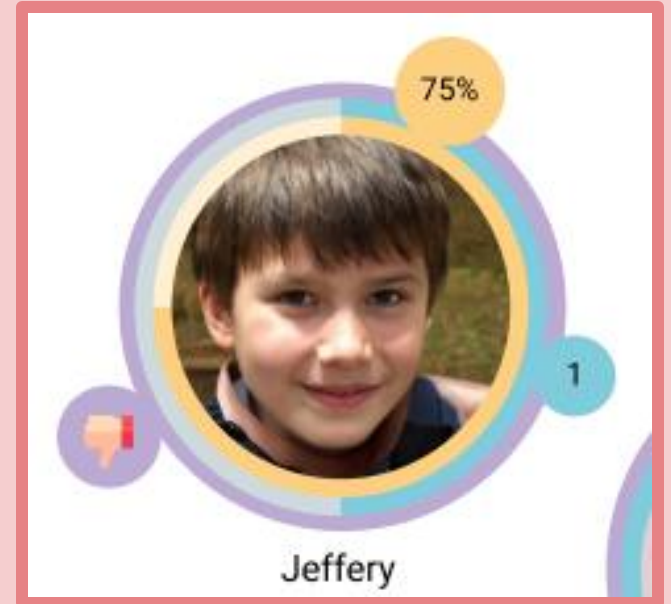
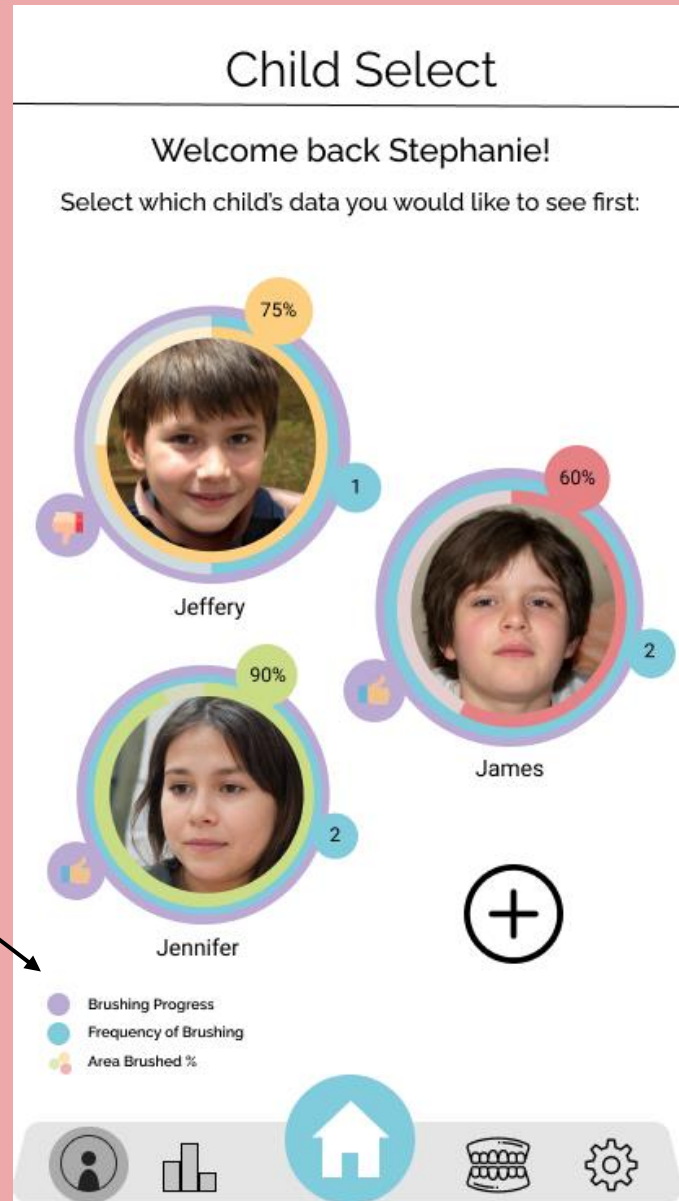
I can see a quick overview of all my children and their brushing progress for today! This keeps me in the know even with my busy days.



# Child Select

View an overview of that day's brushing progress, frequency, and % Area Brushed.

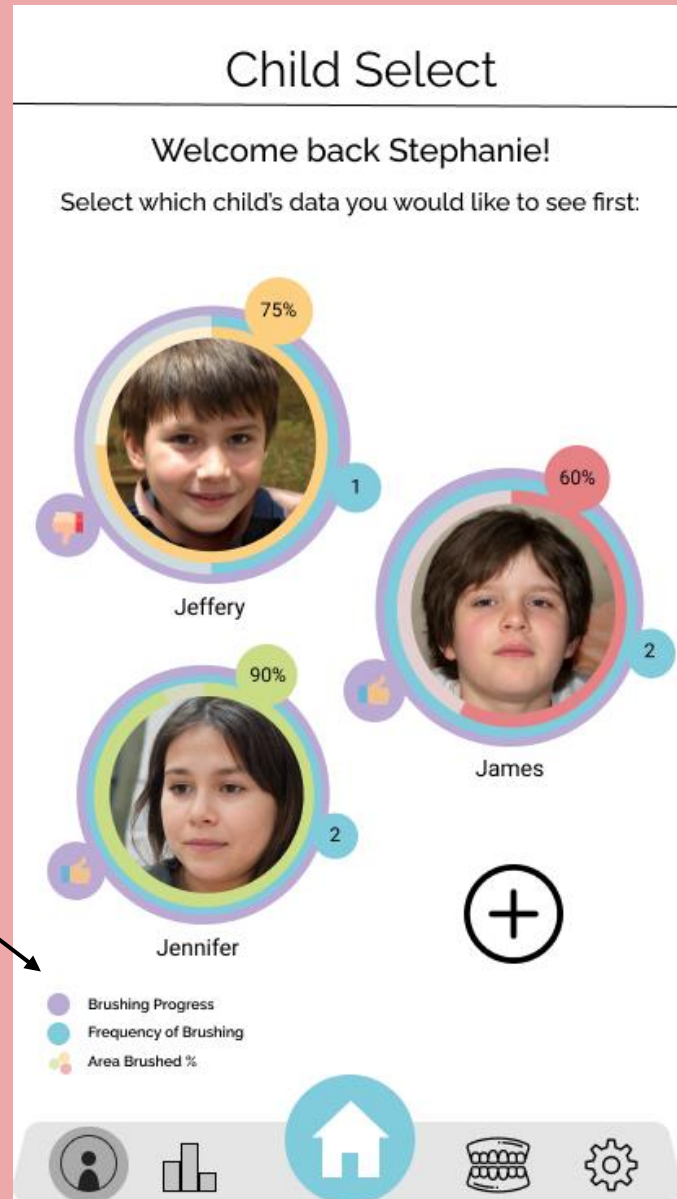
- Brushing Progress
- Frequency of Brushing
- Area Brushed %



# Child Select

View an overview of that day's brushing progress, frequency, and % Area Brushed.

- Brushing Progress
- Frequency of Brushing
- Area Brushed %

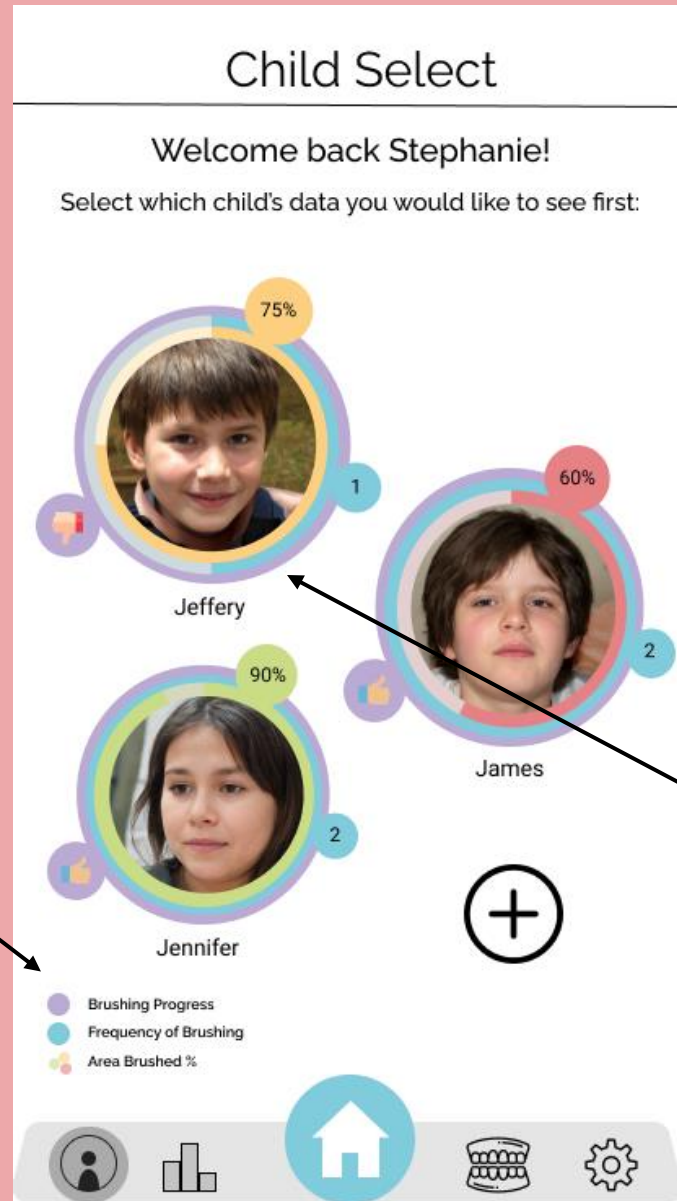


Quickly view multiple child profiles in one place.

# Child Select

View an overview of that day's brushing progress, frequency, and % Area Brushed.

- Brushing Progress
- Frequency of Brushing
- Area Brushed %



Quickly view multiple child profiles in one place.

Select a Child to view more in-depth information.



# Homepage

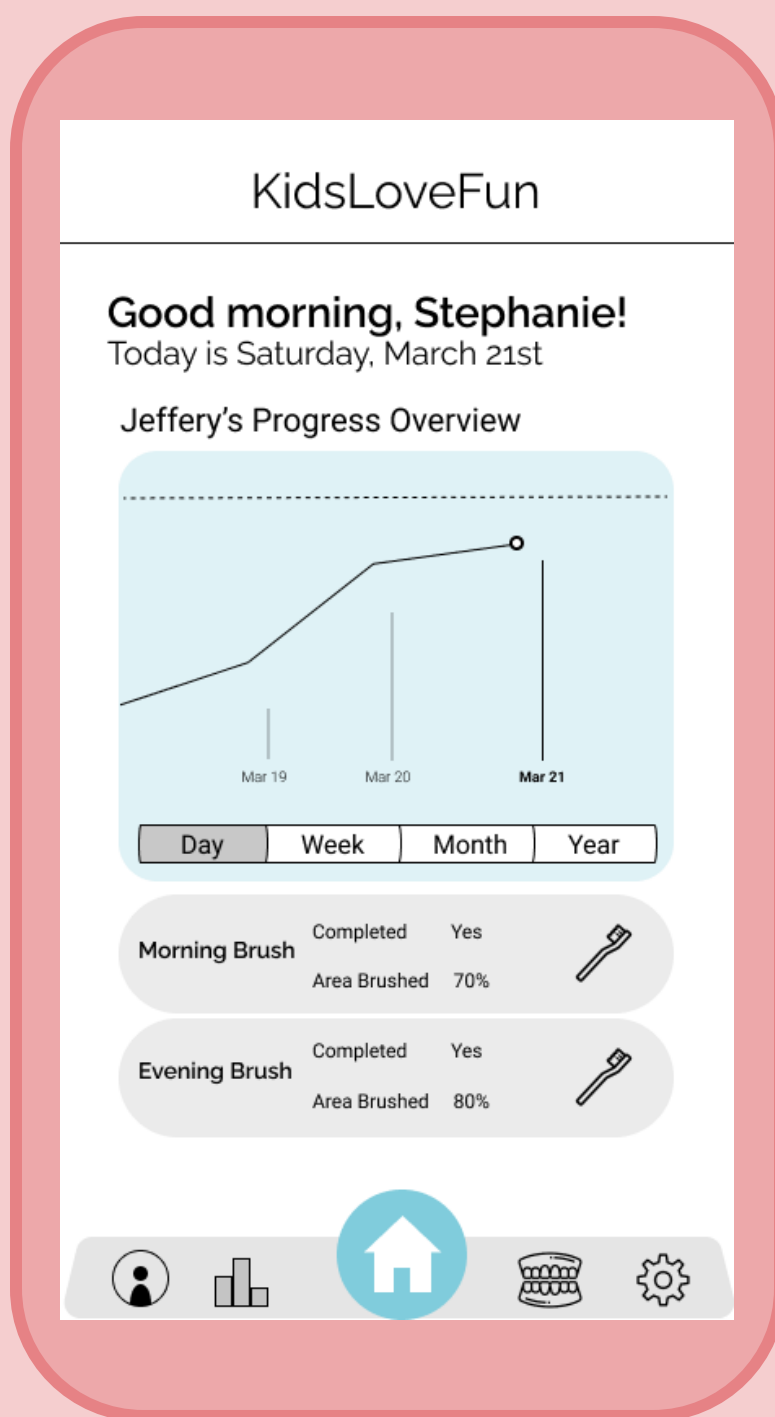


I can quickly check up on Jeffery's overall progress and see his statistics for brushing on this day. I can also make sure Jeffery is reaching his goal for the day.



# Homepage

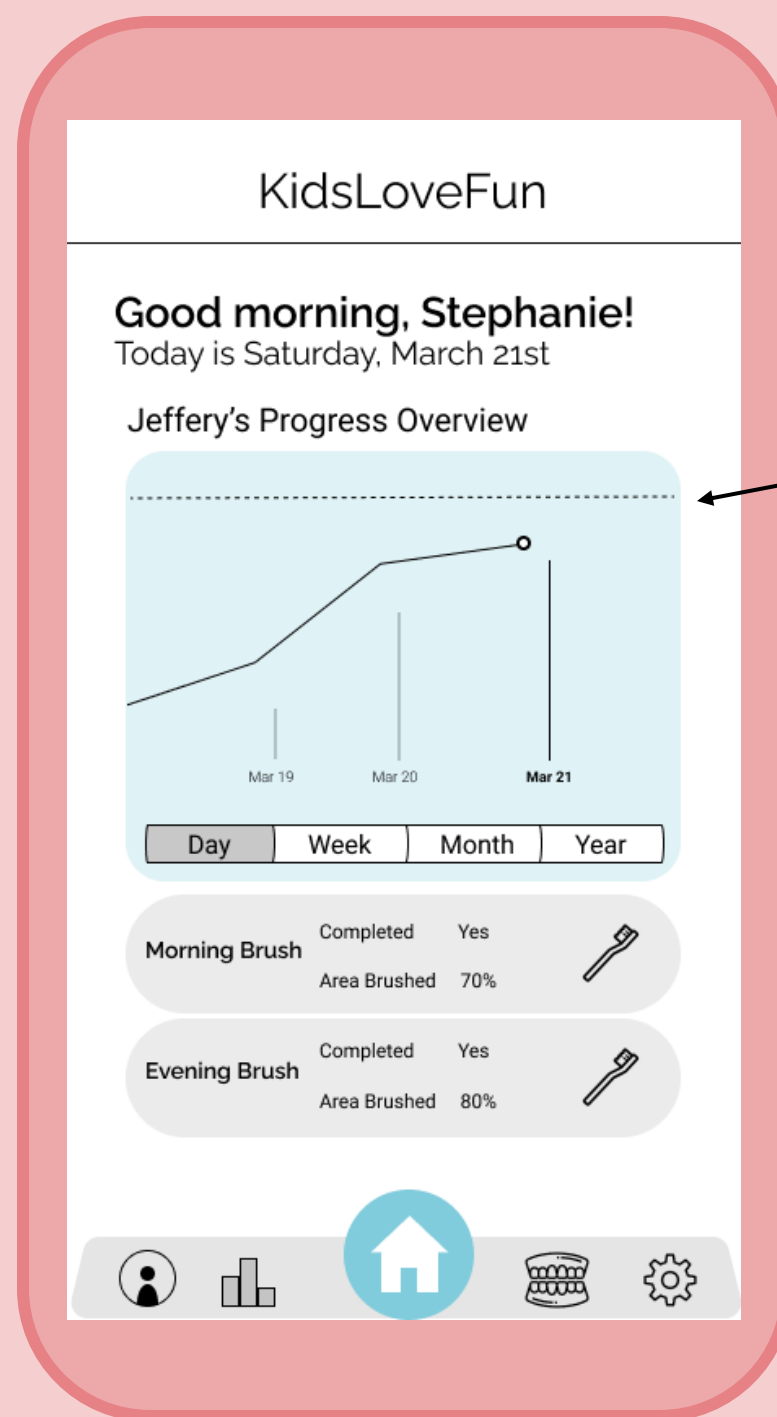
Selecting a child will take Stephanie to the homepage.





# Homepage

Selecting a child will take Stephanie to the homepage.

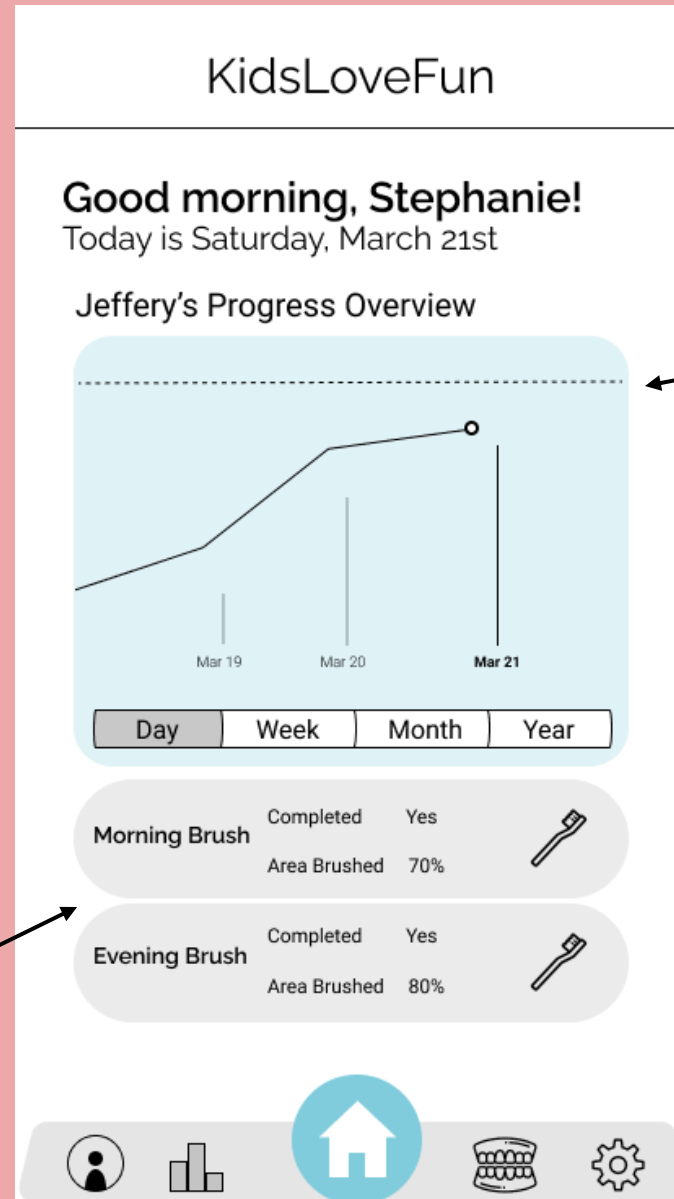


She can view a bar graph that shows Jeffery's daily progress overview. The dotted line shows the overall goal, 100% quality of Area brushed.

# Homepage

Selecting a child will take Stephanie to the homepage.

Stephanie could see the overall daily progress in brushing including if he brushed twice that day, and the percentage of the mouth brushed for that day.



She can view a bar graph that shows Jeffery's daily progress overview. The dotted line shows the overall goal, 100% quality of Area brushed.

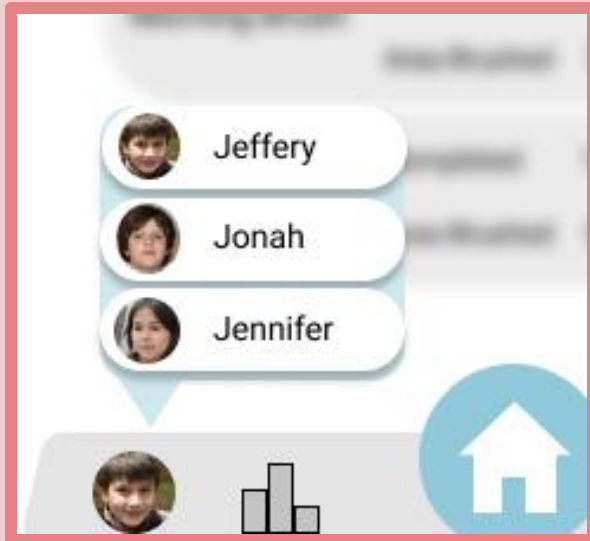
# Fast Child Select



If I am looking at a page and am curious to see the same page but with information on a different child, I can quickly change child profiles.

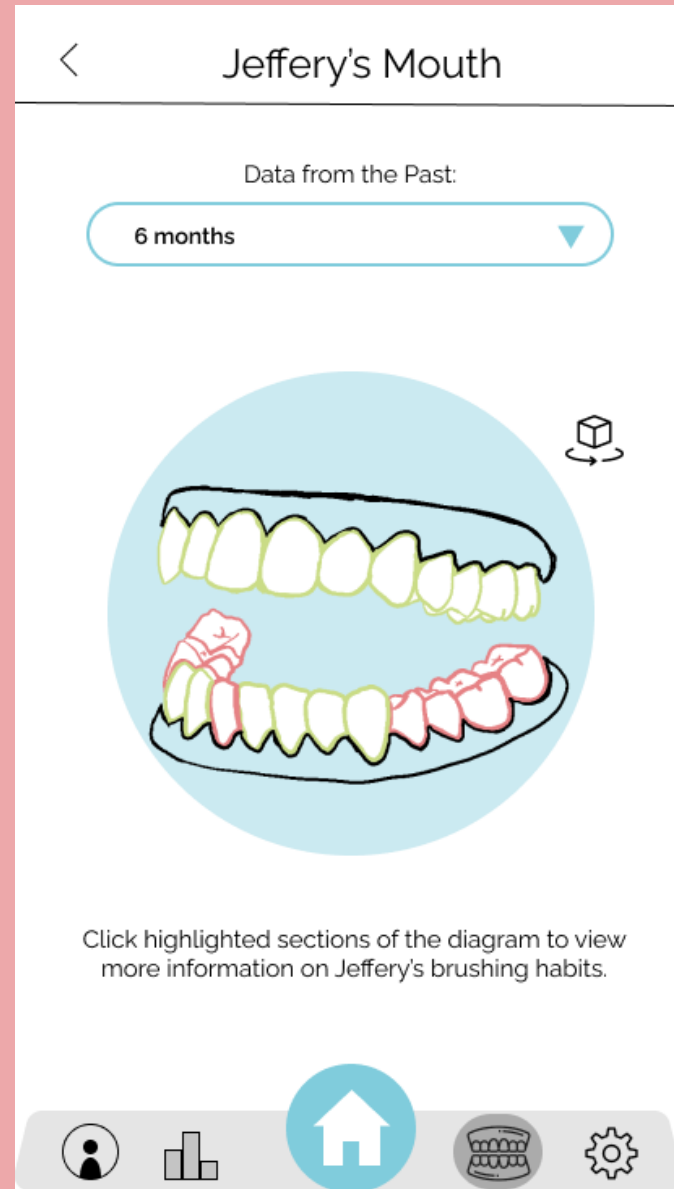


# Fast Child Select



If Stephanie wants quickly change what child she is viewing, she can swipe up on the profile icon to quickly select a different child and see the new child's data on a whatever page they were previously on.

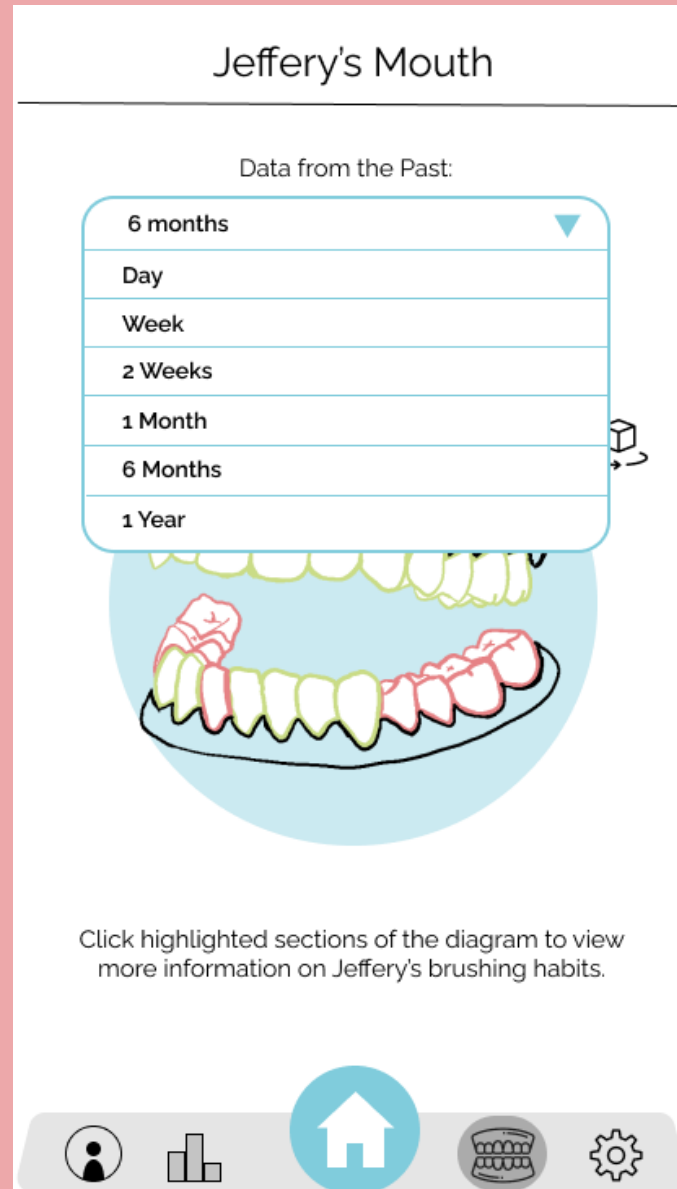
## 3D Model



I can use the 3D model to visualize Jeffery's teeth and even show this information to a dentist if Jeffery is struggling or has mouth pains. This allows me to know where to step in to help Jeffery reach these sections of his mouth.



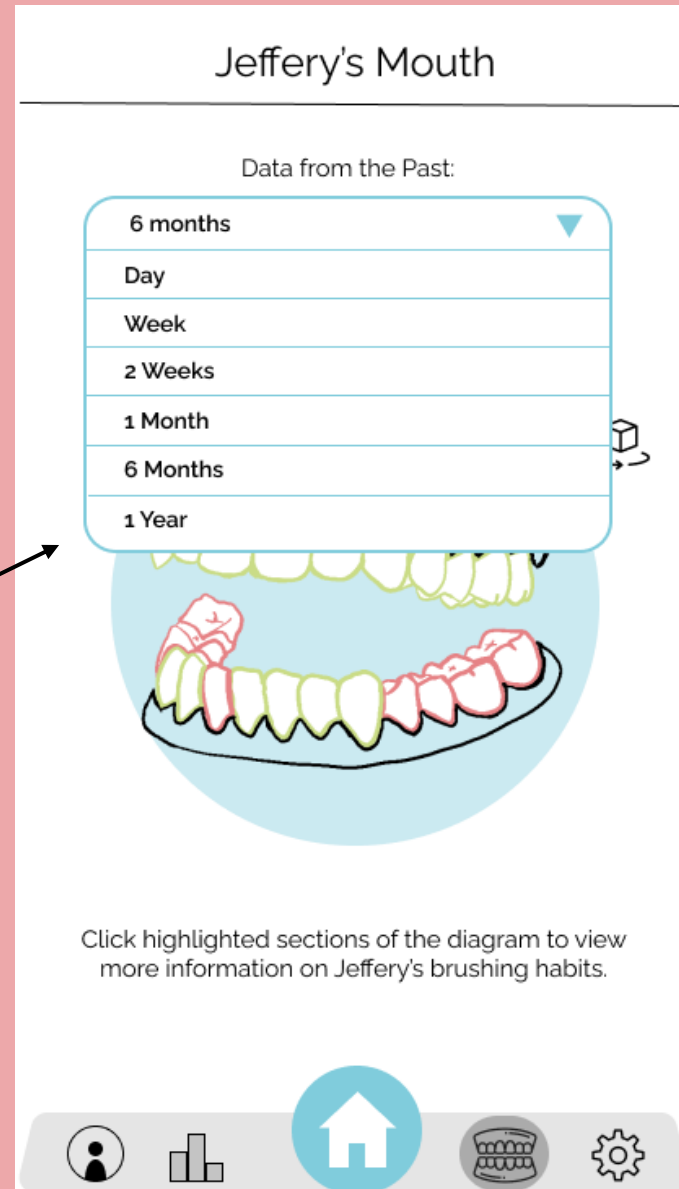
# 3D Model



By clicking on the mouth icon, they can view the 3D Model which shows problem areas.

## 3D Model

Stephanie can see problem areas from different data sets: the past day, weeks, months, or year.

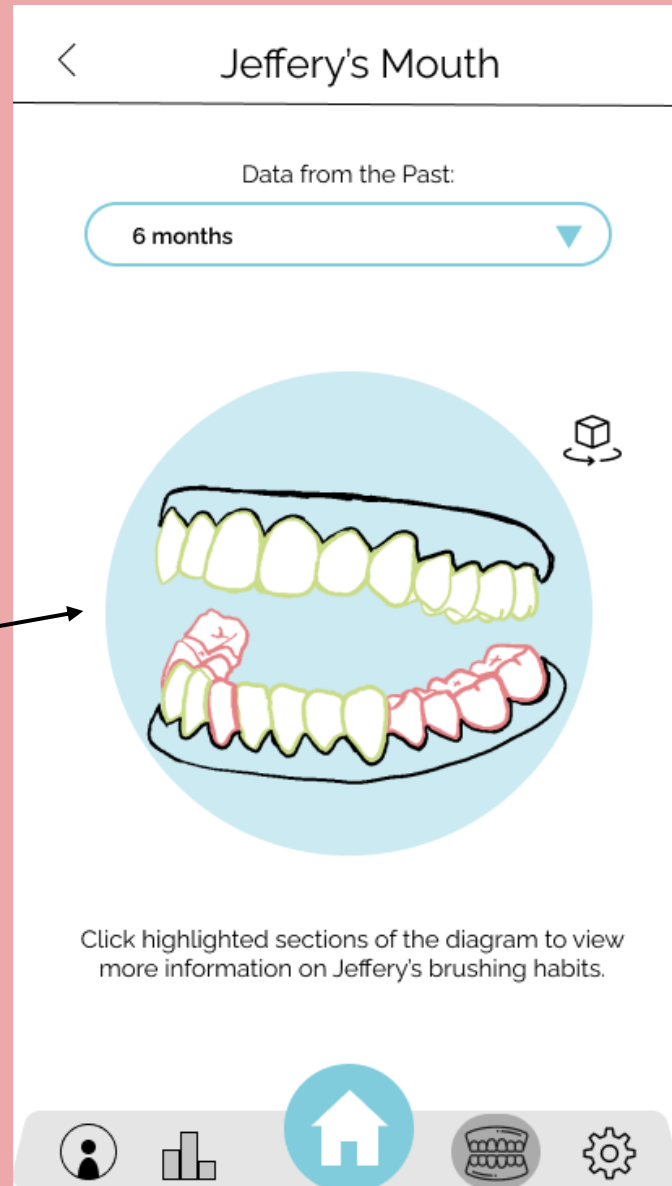


By clicking on the mouth icon, they can view the 3D Model which shows problem areas.



## 3D Model

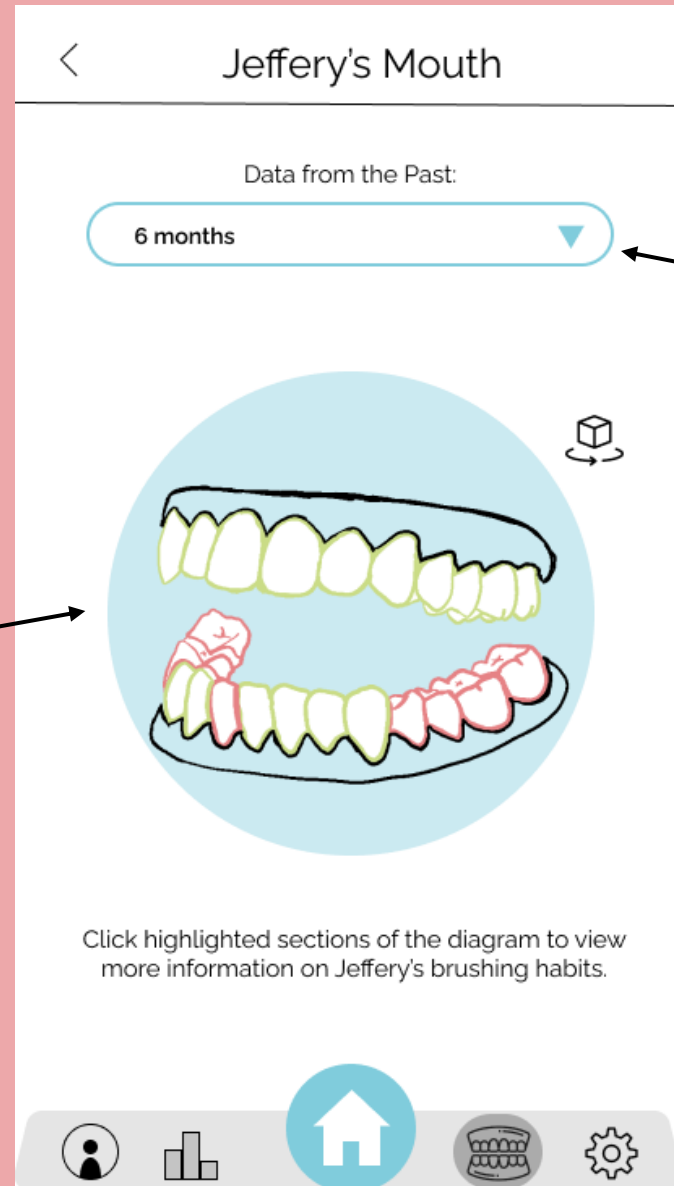
Stephanie can rotate the 3D model to view all sides of the mouth.



## 3D Model

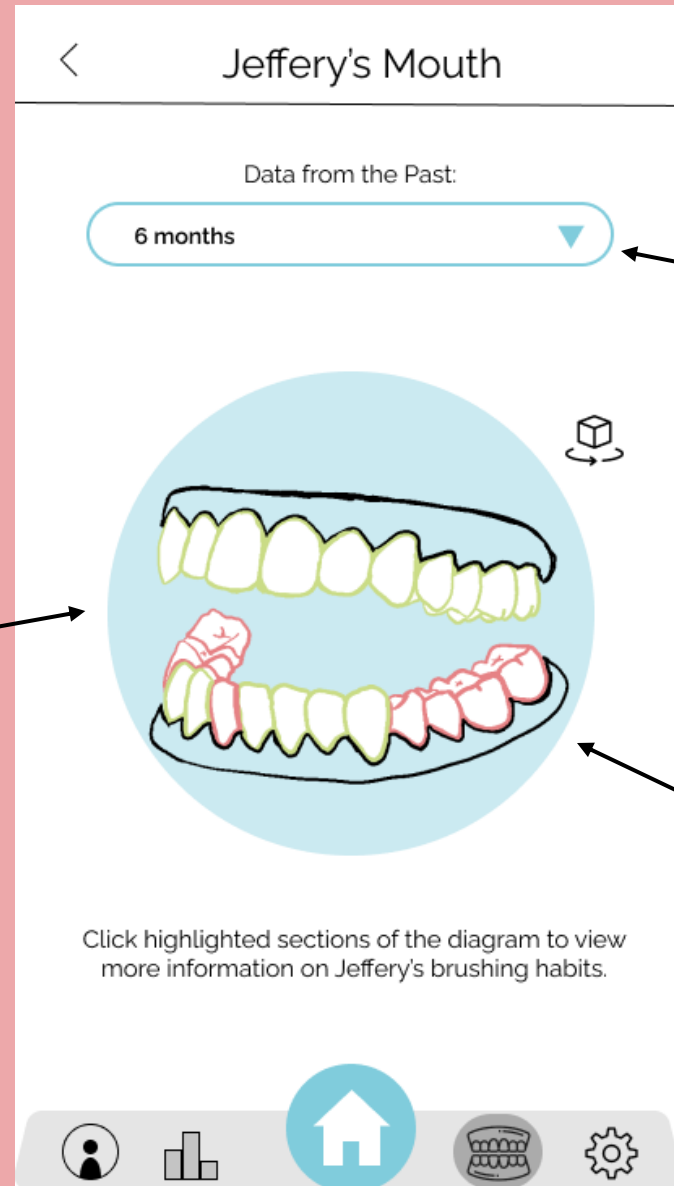
Stephanie can rotate the 3D model to view all sides of the mouth.

Stephanie can share this information with Jeffery's Dentist even all the way back to the last visit.



## 3D Model

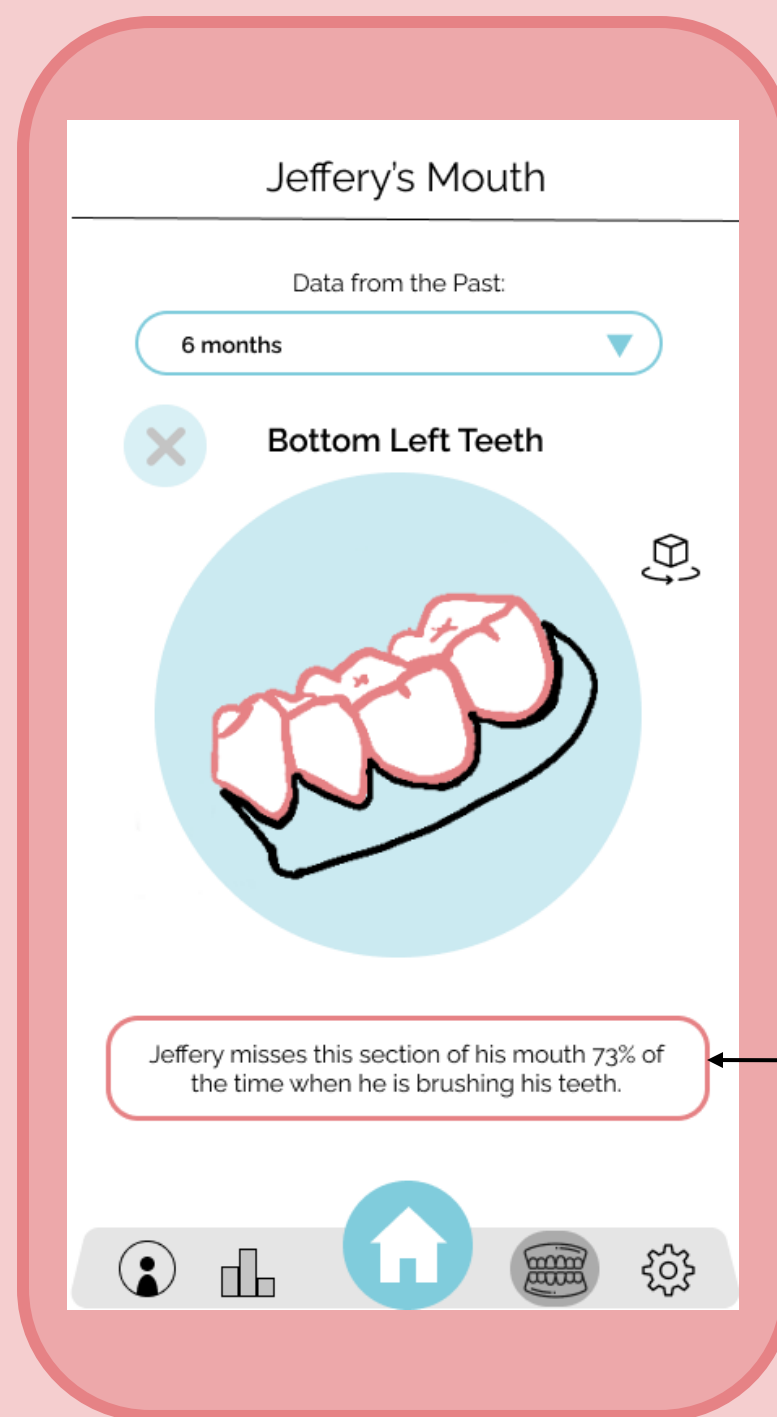
Stephanie can rotate the 3D model to view all sides of the mouth.



Stephanie can share this information with Jeffery's Dentist even all the way back to the last visit.

By clicking on red sections of the mouth, Stephanie can view more information as to why this is a problem area for Jeffery in his brushing routine.

# 3D Model



Stephanie can understand how or when she needs to step in to assist Jeffery in his routine.

# Monthly Progress



I can keep track of my children's progress each month. Even if I get too busy to check it daily, the app will remind me to look at their progress over time so I can step in to help if they need it.



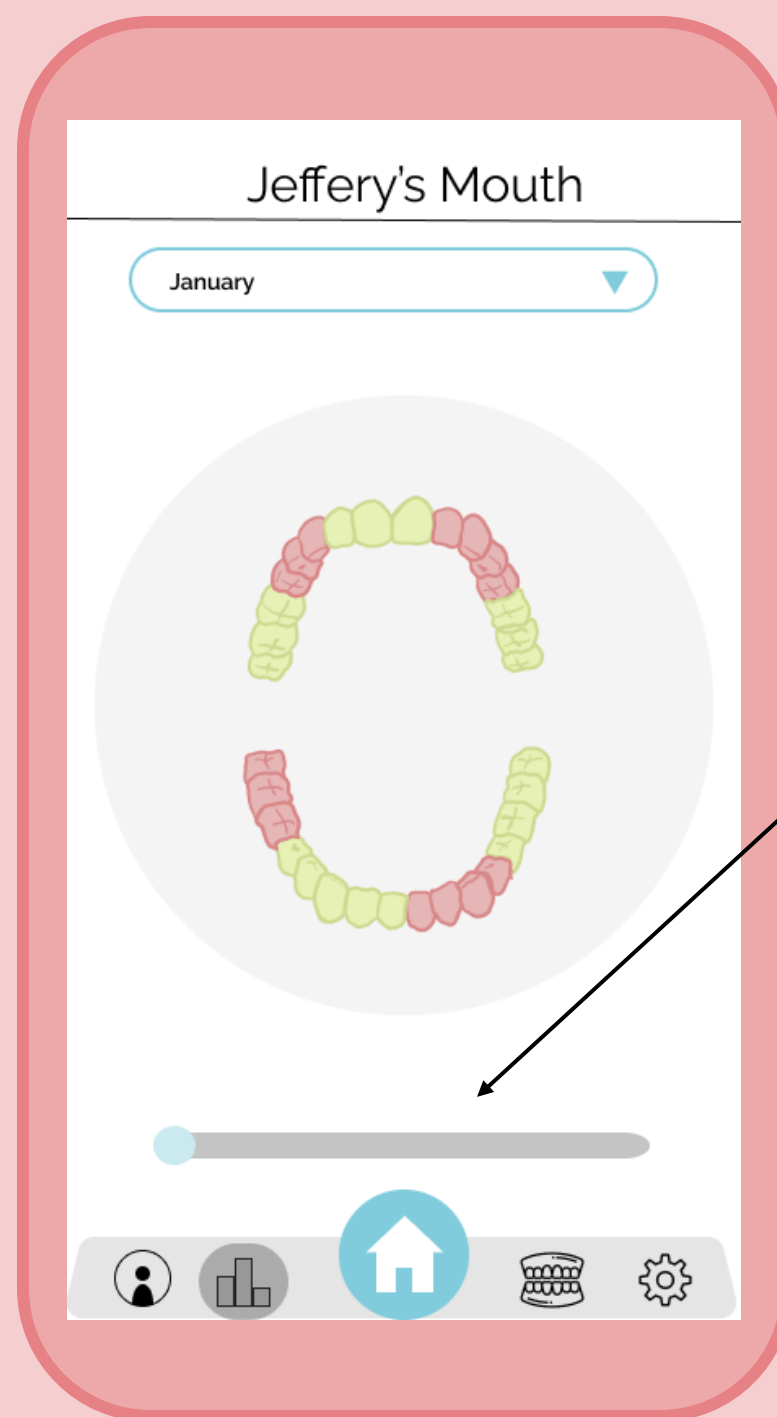
# Monthly Progress



Each month, Stephanie will receive a notification that shows her when the Monthly Overview is available to view.

KLF KidsLoveFun Feb 2 10:42 AM  
Good Morning Stephanie!  
Jeffery's monthly overview is now available to view.  
Click to see your child's progress over the past month!

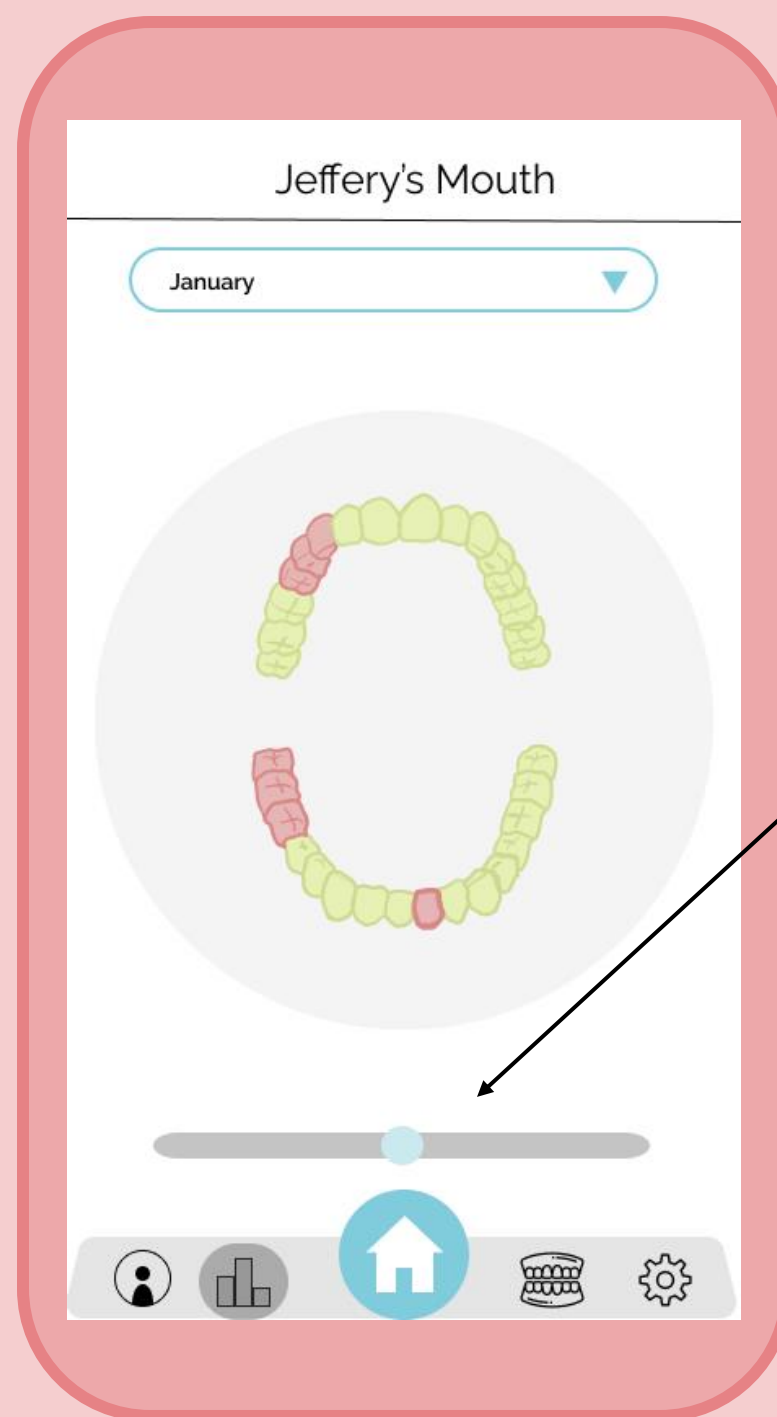
# Monthly Progress



By moving the slider from left to right, she can view the overall progress Jeffery has made throughout the past month in his brushing progress.

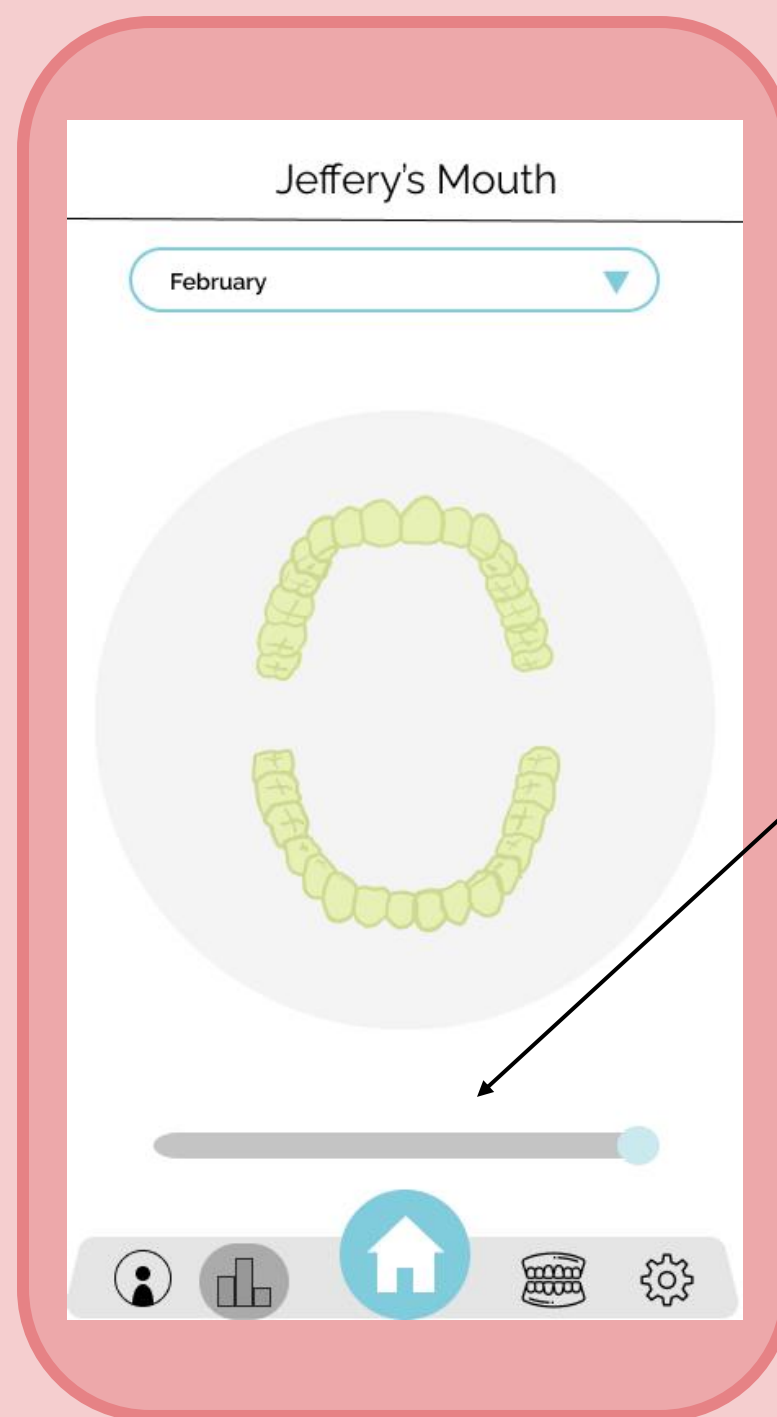


# Monthly Progress



By moving the slider from left to right, she can view the overall progress Jeffery has made throughout the past month in his brushing progress.

# Monthly Progress



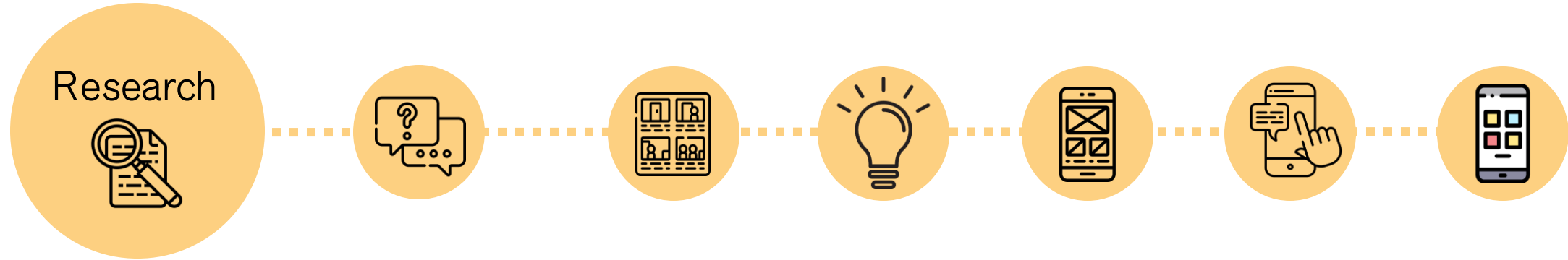
By moving the slider from left to right, she can view the overall progress Jeffery has made throughout the past month in his brushing progress.

# Project Process

How did we arrive at this design?

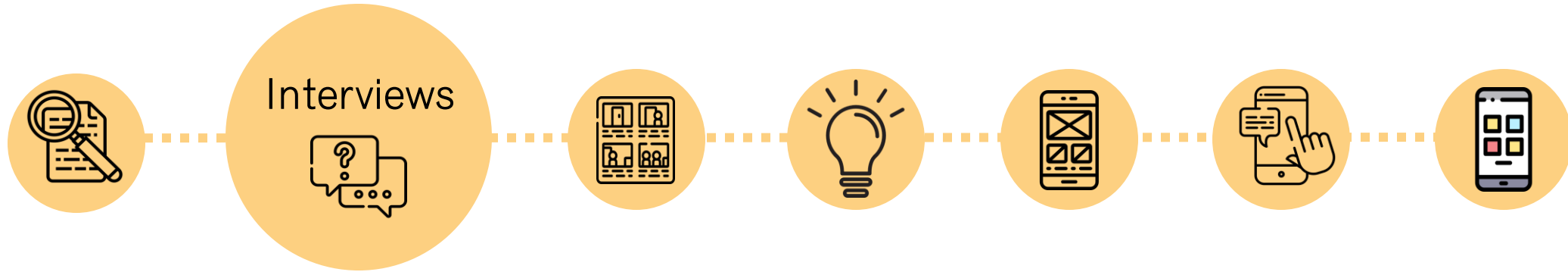


# Project Process



- Competition
- Data users want
- Age range
- Psychology and development

# Project Process

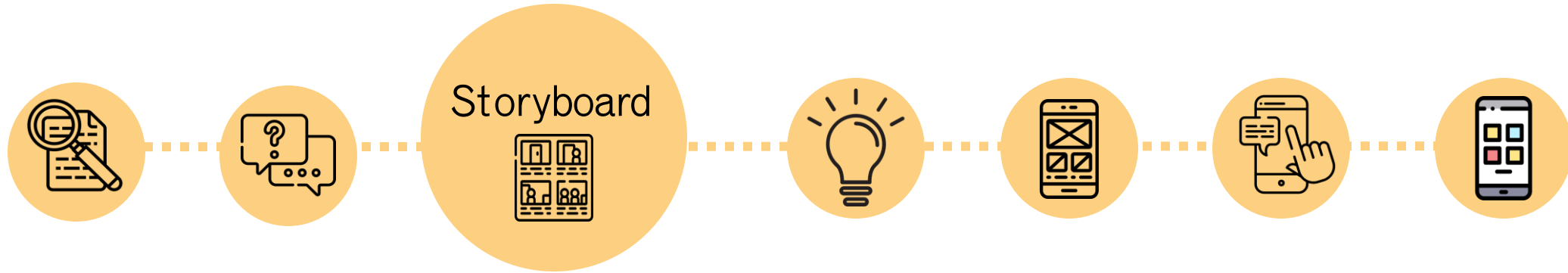


## Participants:

Parents with children aged 3-6

- Daily routine
- Children's habits
- Brushing data they may want to see

# Project Process



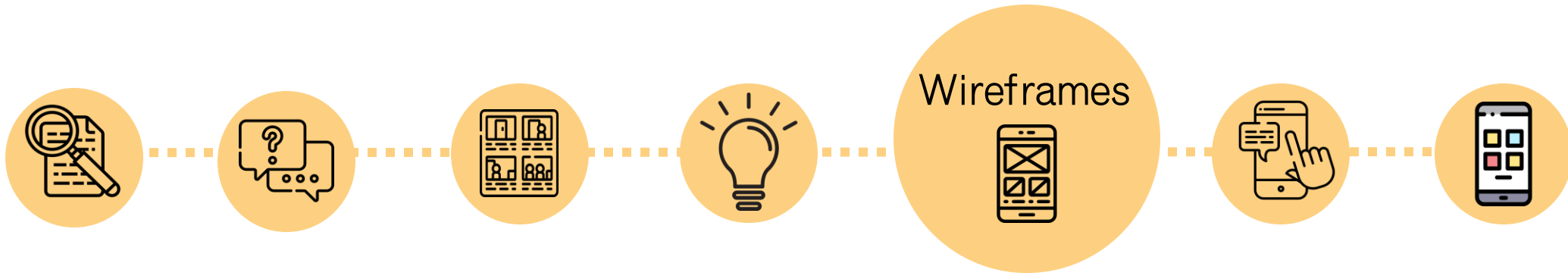
# Project Process



- Created user flow to understand what screens we needed
- Started sketching out screens

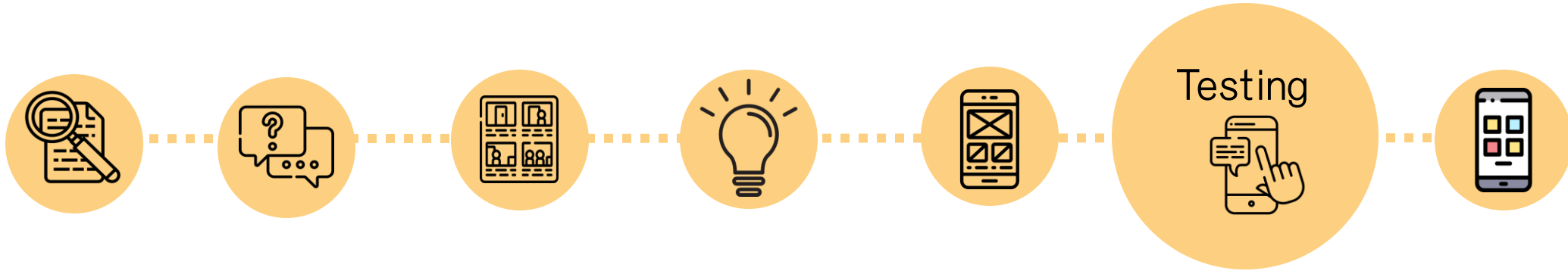


# Project Process



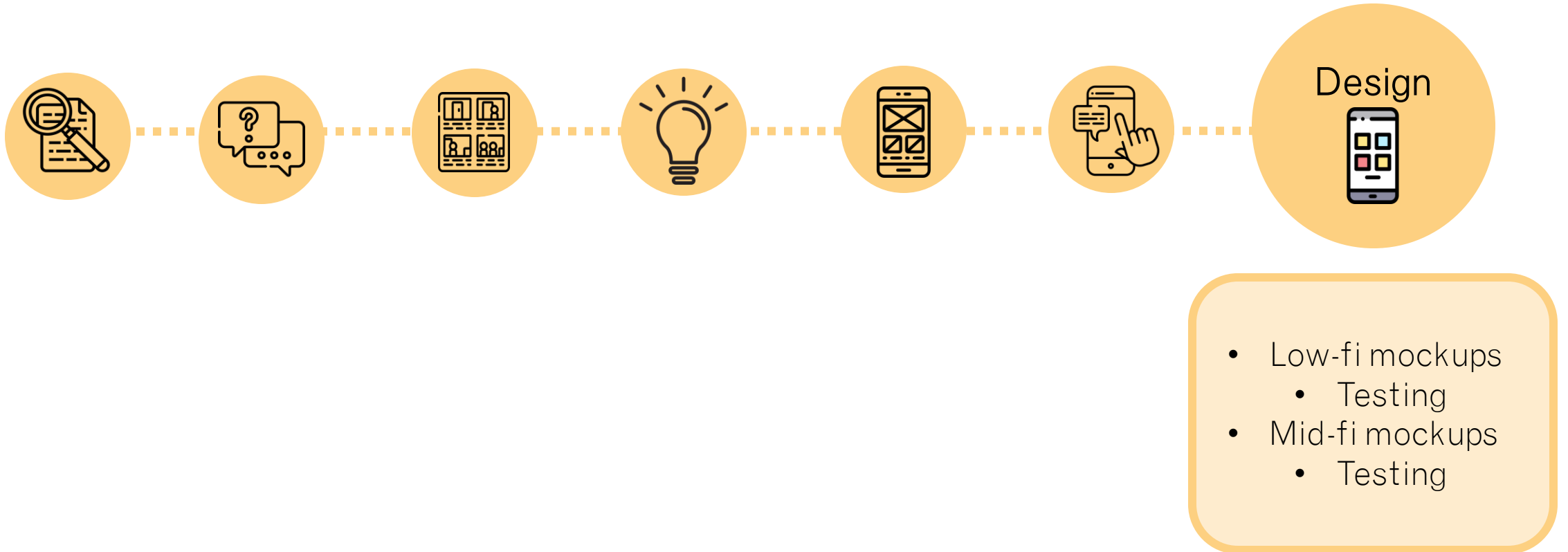
- Wireframes based on our ideation
- Used peer critiques to determine what features were necessary

# Project Process



- Usability testing on wireframes
- Tested on ease of navigation of the app and what data to show

# Project Process



## Child Select

Welcome back Stephanie!

Select which child's data you would like to see first:

Jeffery 75% 1

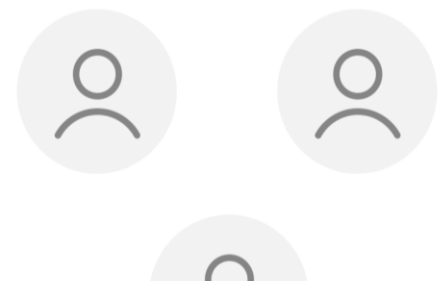
James 60% 2

Jennifer 90% 2

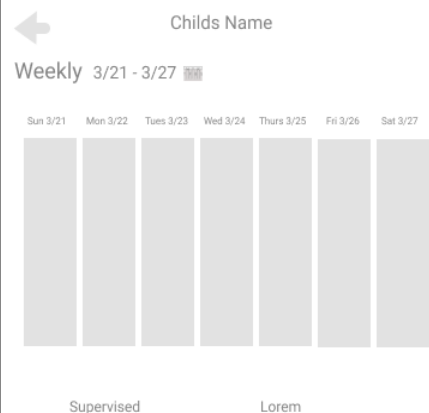
Legend:  
● Brushing Progress  
● Frequency of Brushing  
● Area Brushed %

Welcome back {name}!

Which child's data would you like to see?



Jeffery misses this section of his mouth 73% of the time when he is brushing his teeth.



## Jeffery's Mouth

Data from the Past:

6 months

Day

Week

2 Weeks

1 Month

6 Months

Data from the Past:

6 months



Click highlighted sections of the diagram to view more information on Jeffery's brushing habits.

# Iterations

**Goals:** Outline how our research and testing impacted our design.

Go Today

Jeff

January

Mar 19 Mar 20 Mar 21

Day Week Month Year

Morning Brush Completed Yes Area Brushed 70%

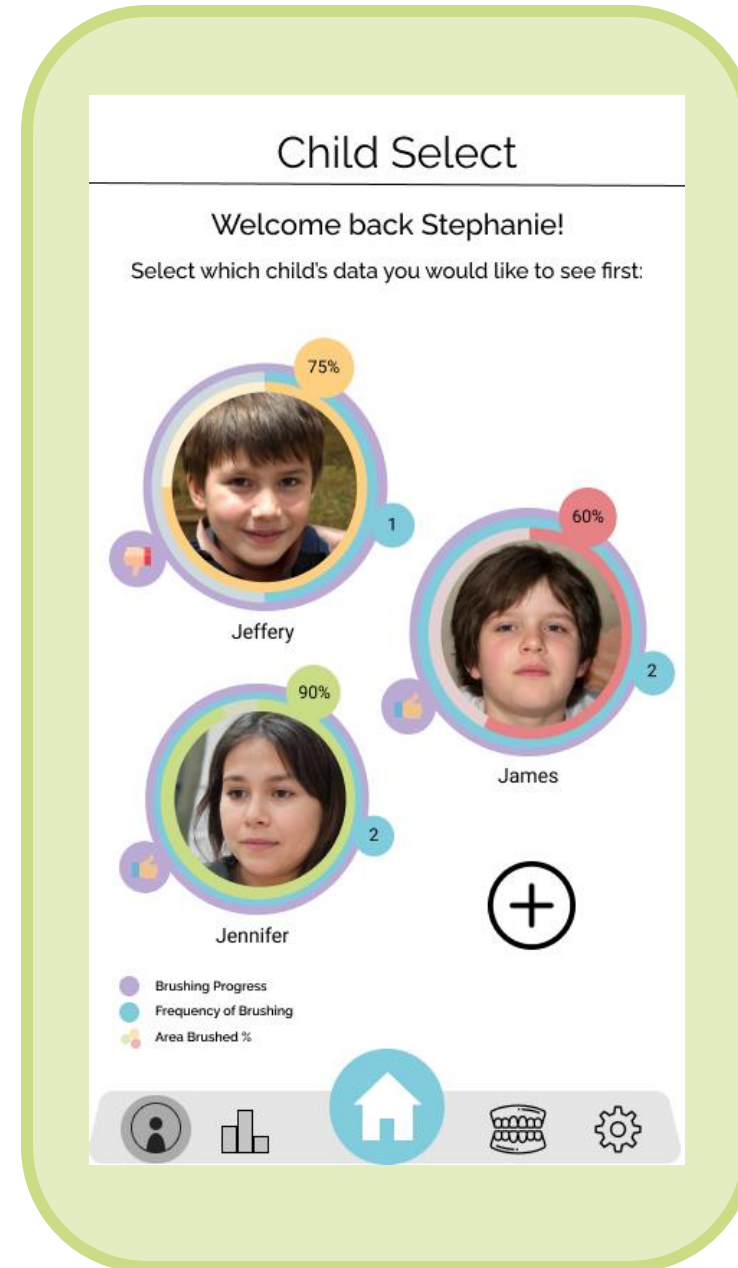
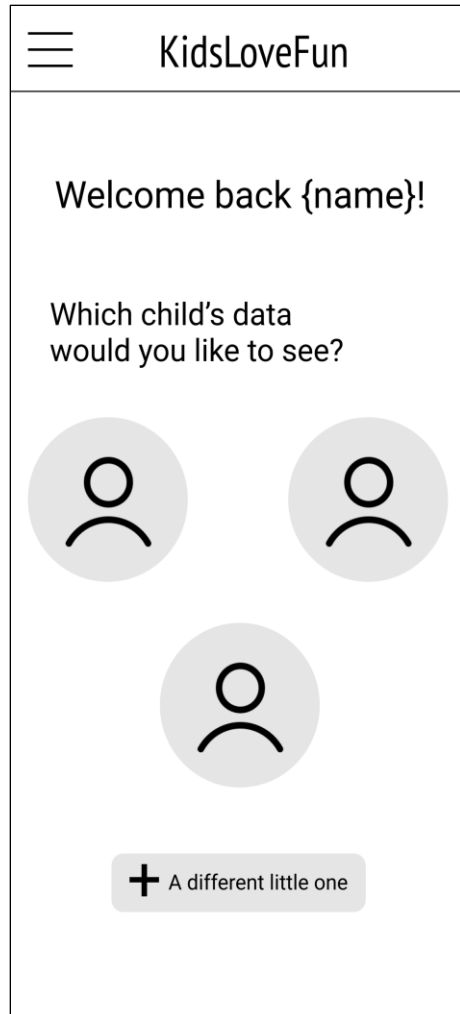
Evening Brush Completed Yes Area Brushed 80%

This view will show a timelapse map of the past month of your child's teeth to show their progress over the past month.

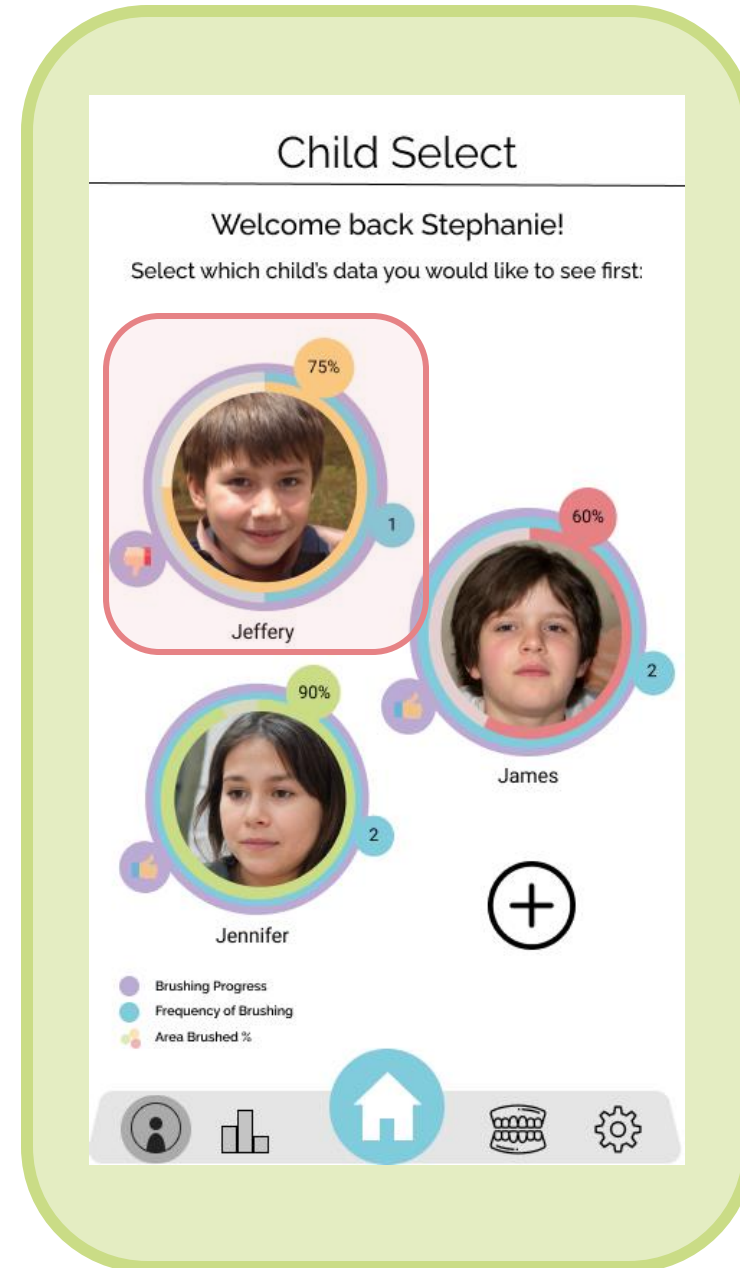
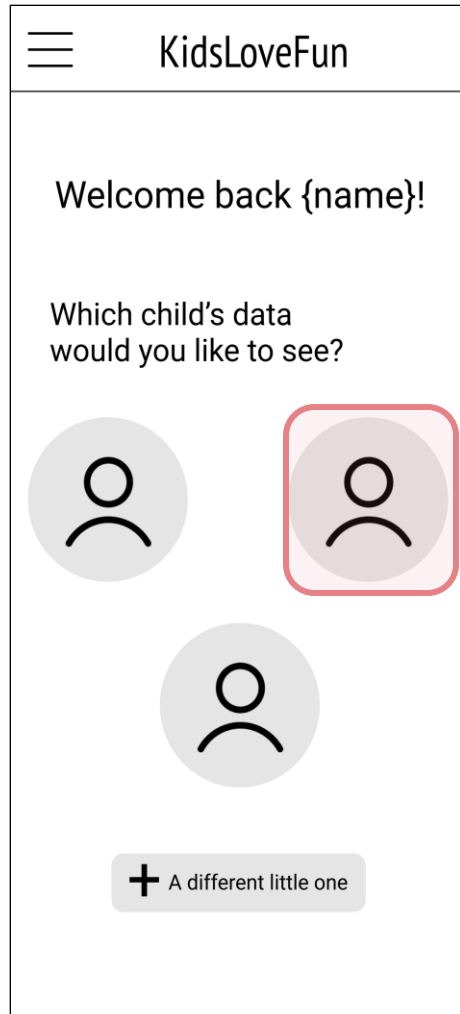
[View Now](#) [View Later](#)

Zoomed quadrant view 3D Mouth Diagram

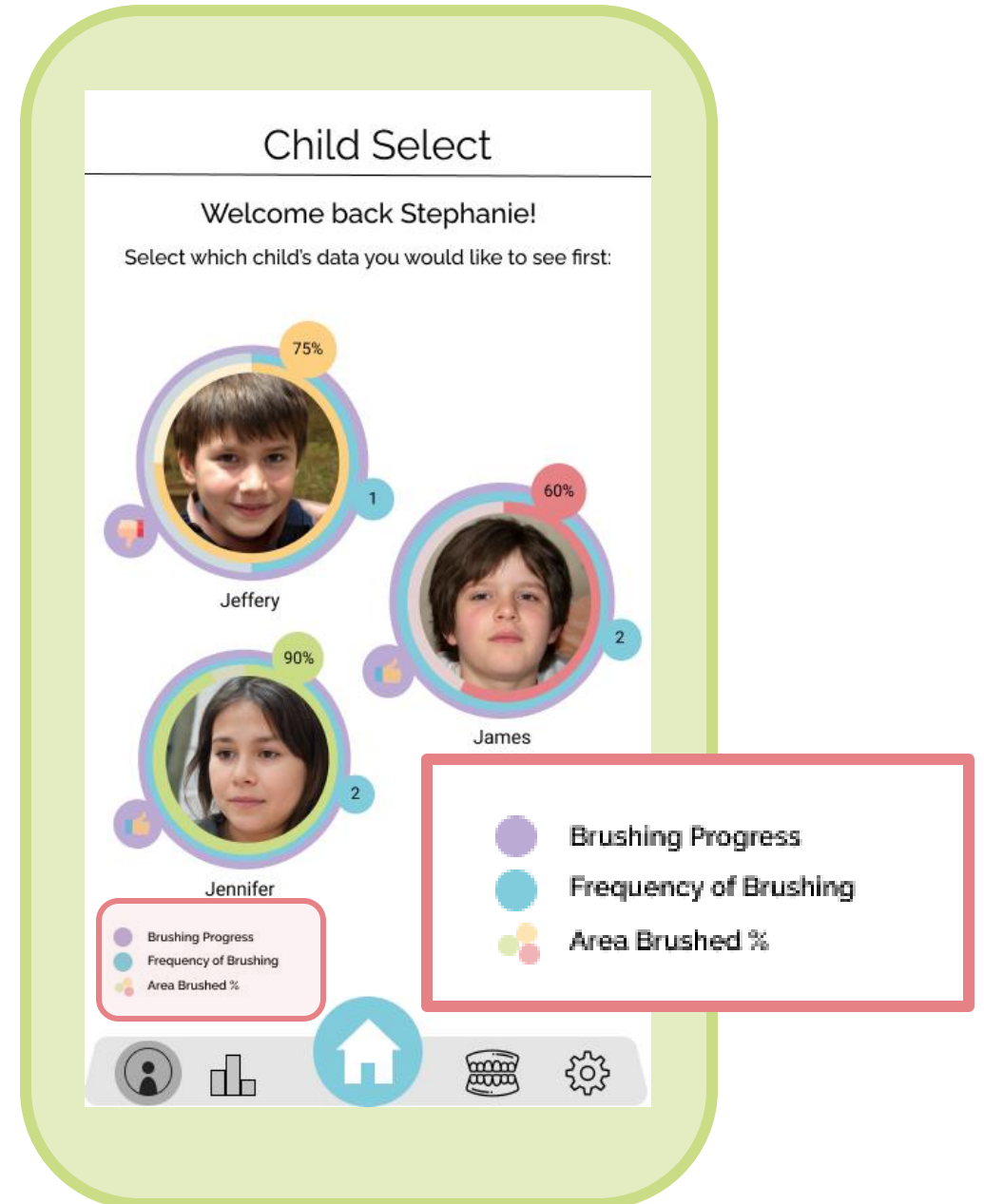
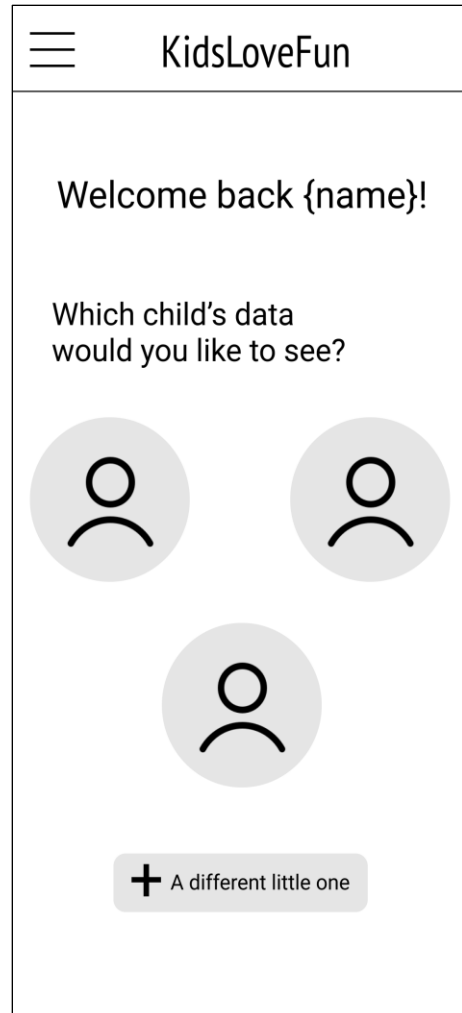
# Child Select



# Child Select

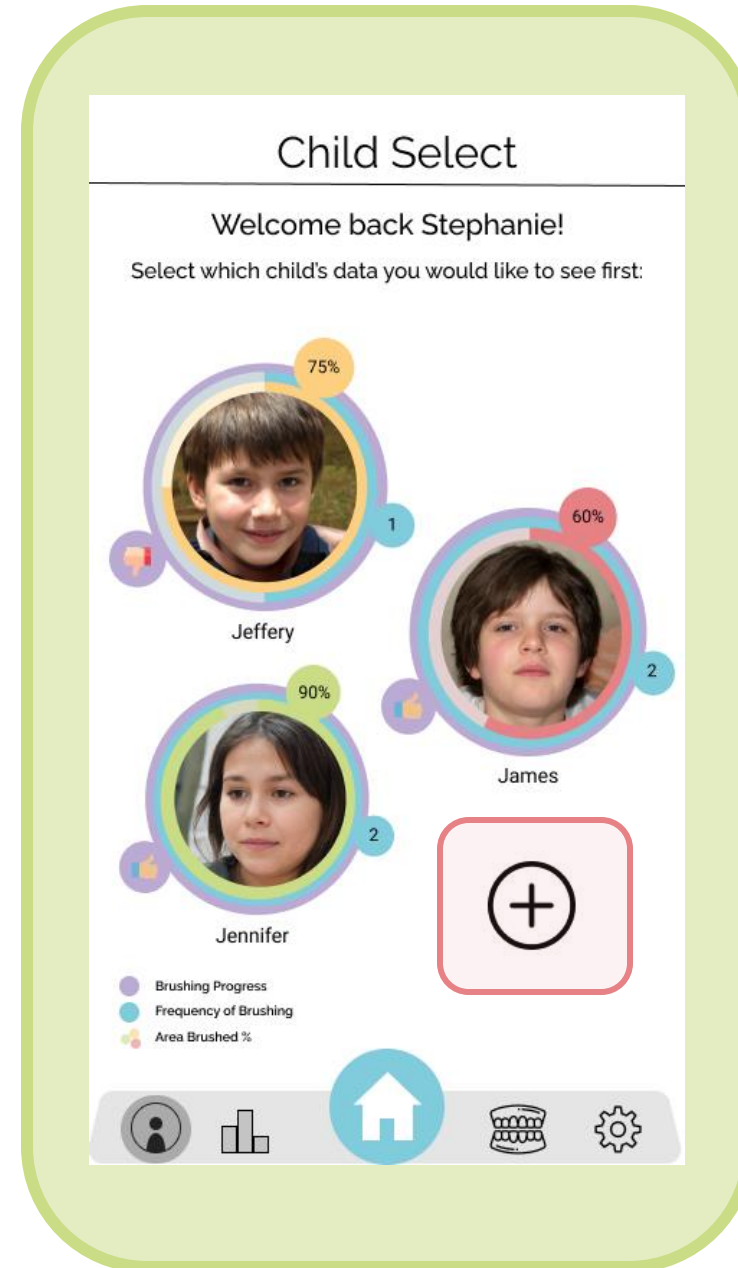
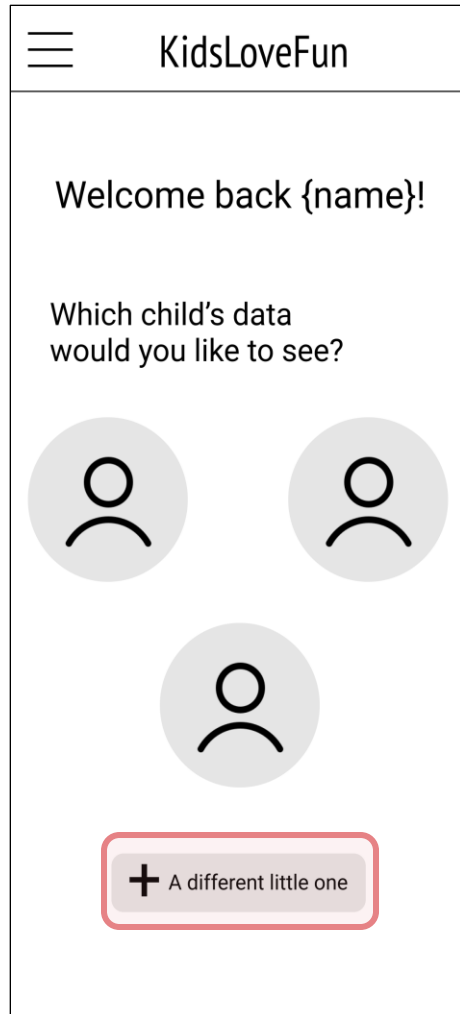


# Child Select

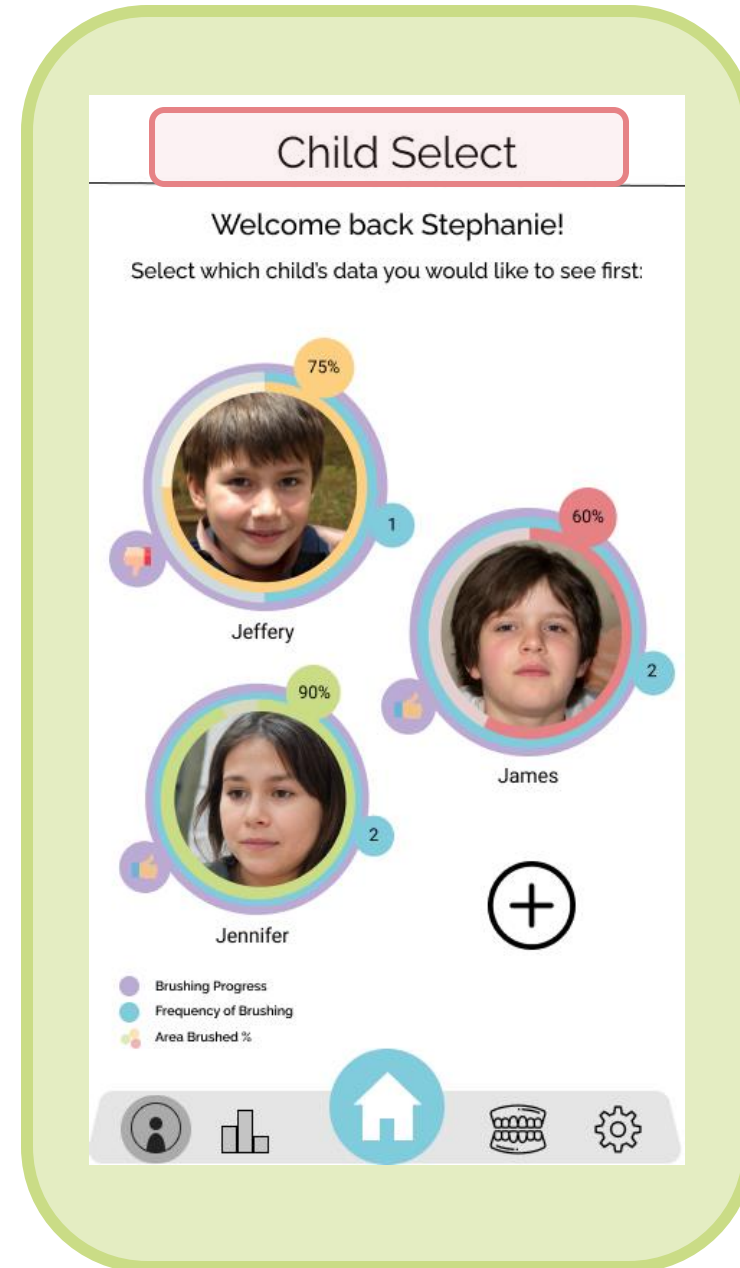
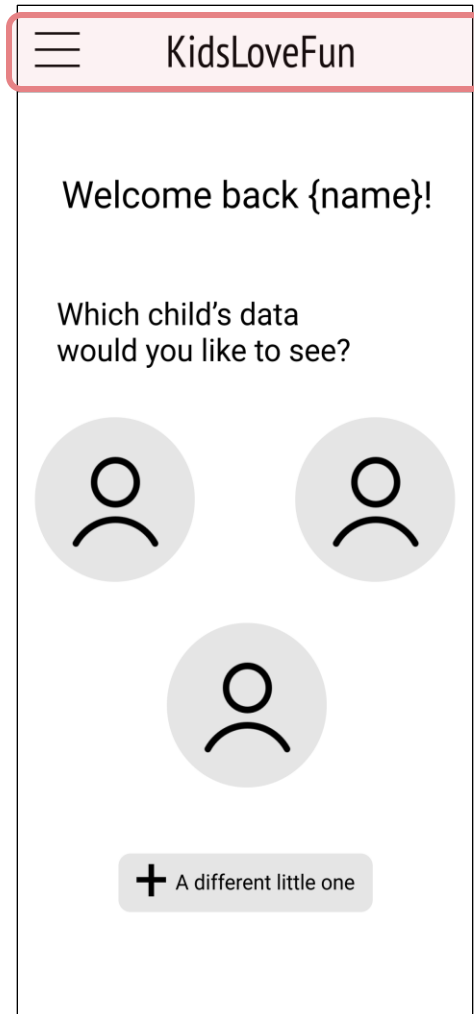




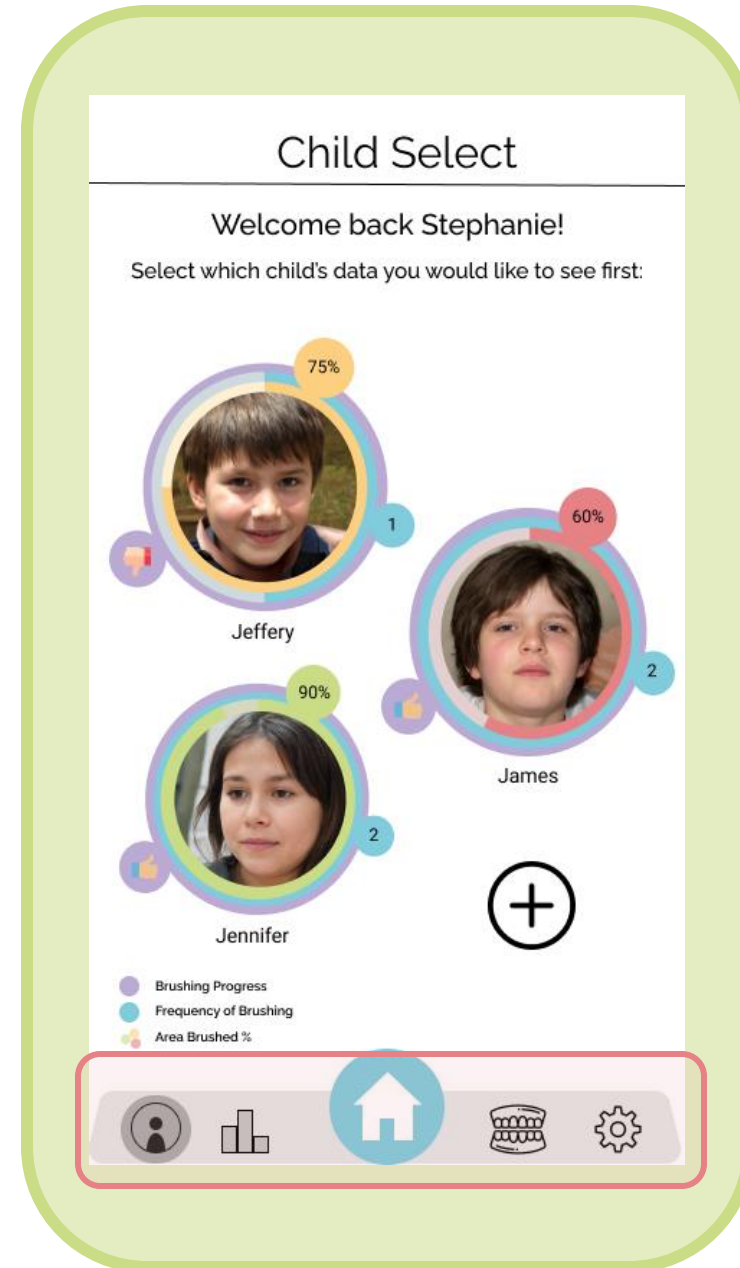
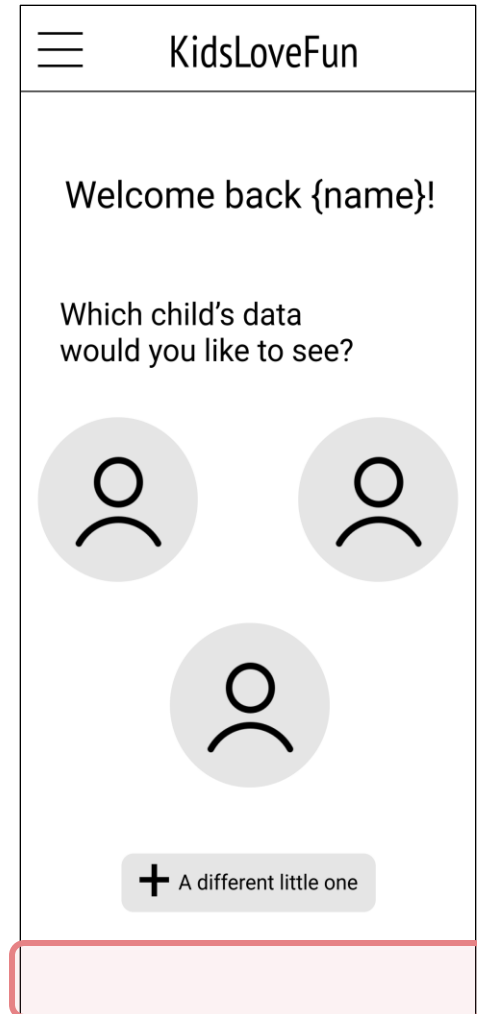
# Child Select



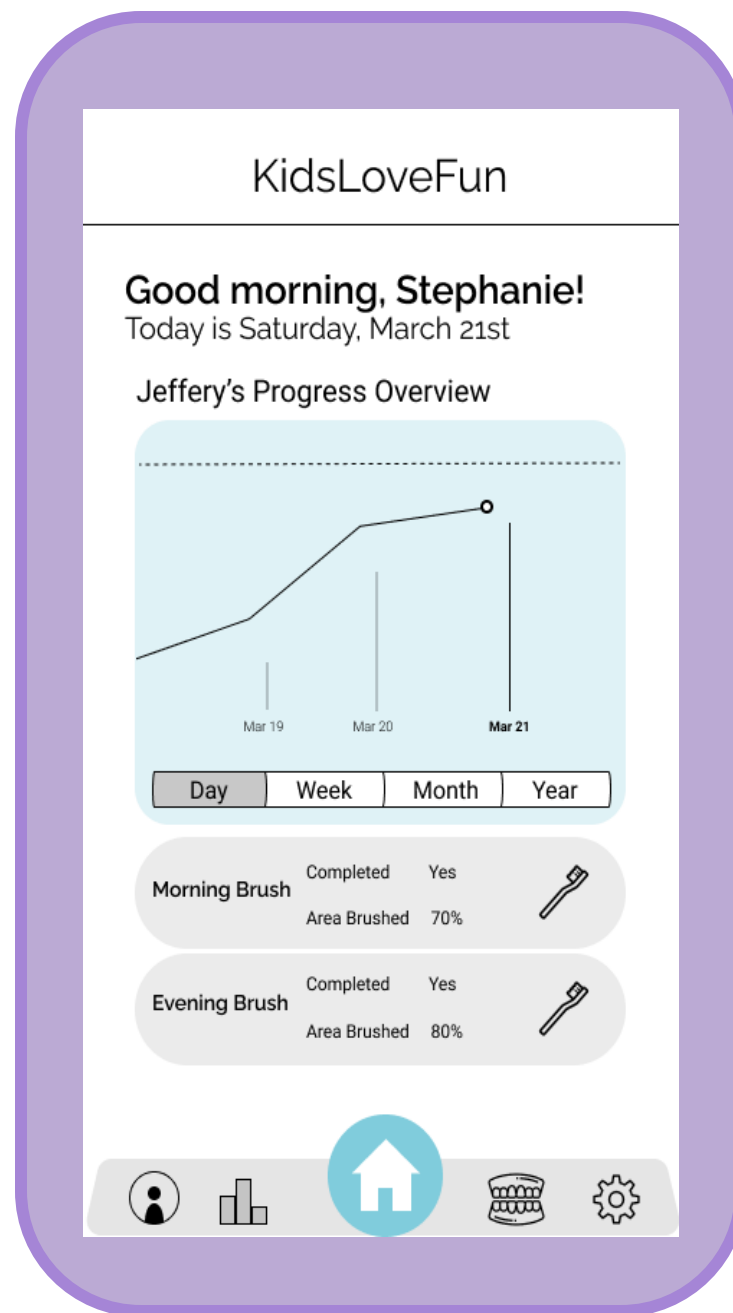
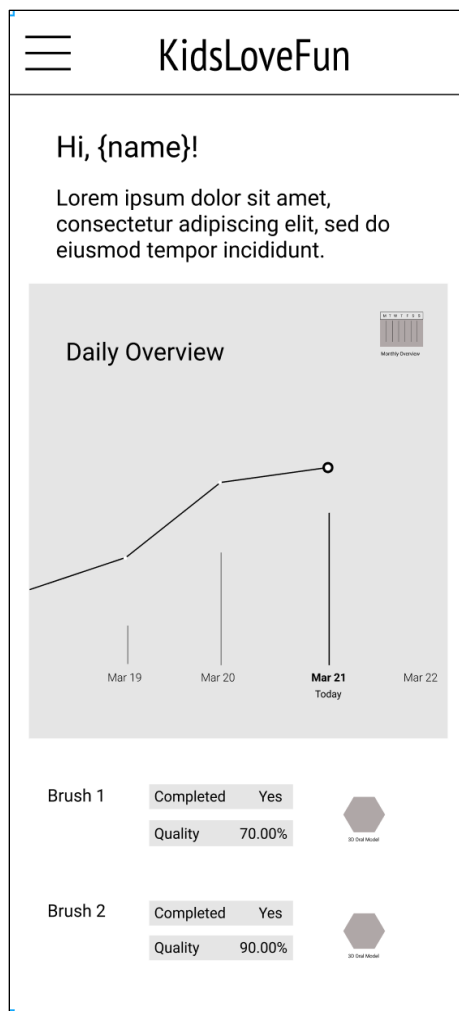
# Child Select



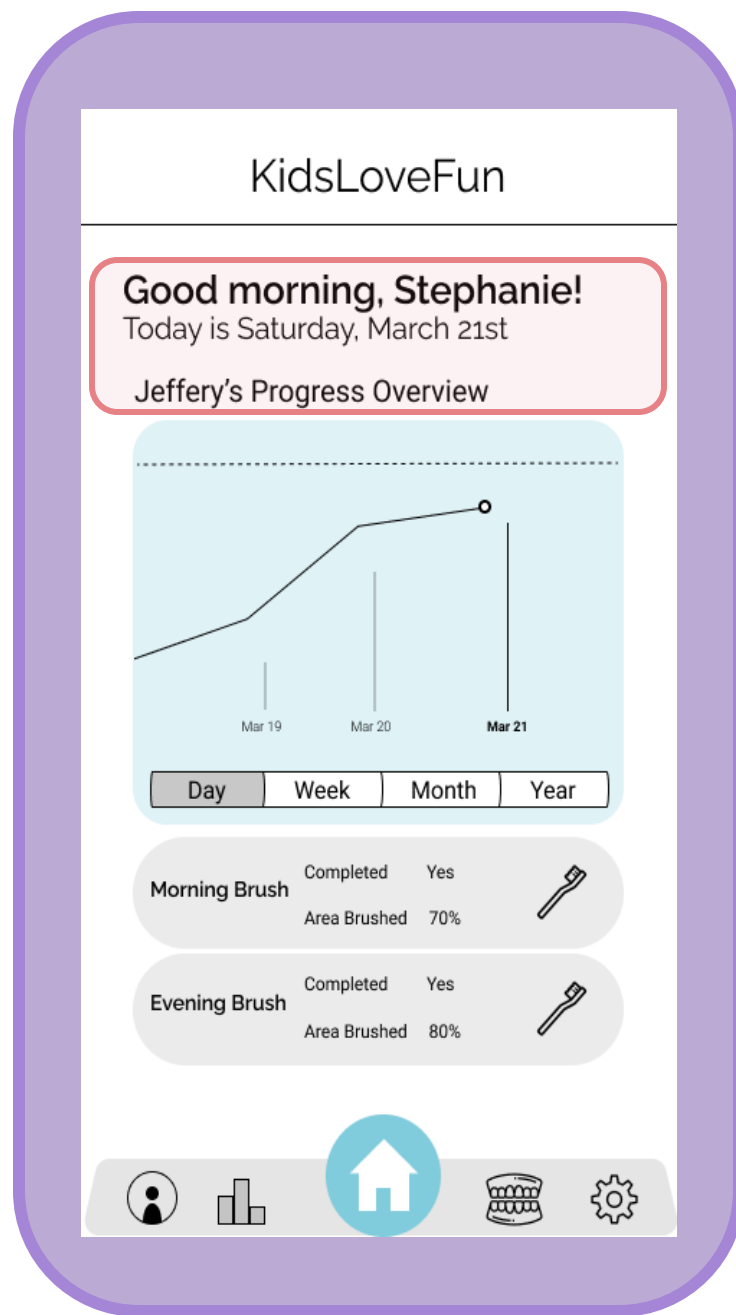
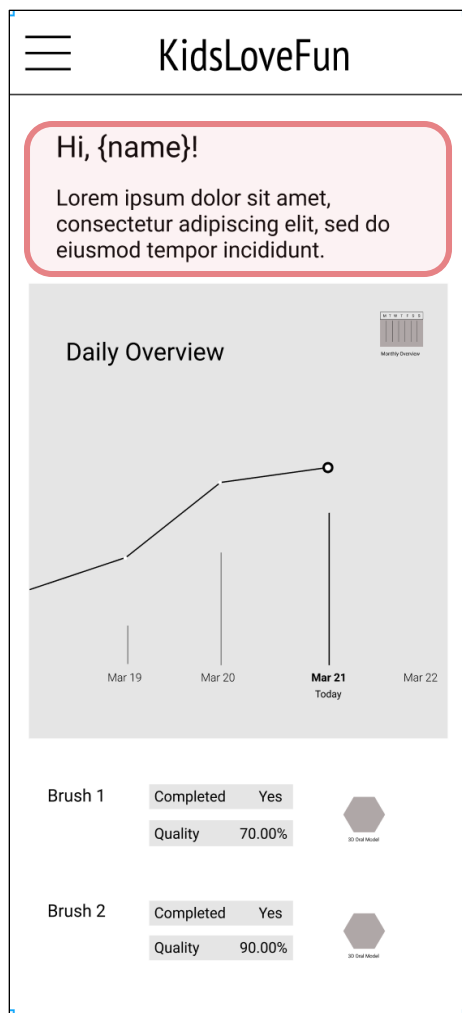
# Child Select



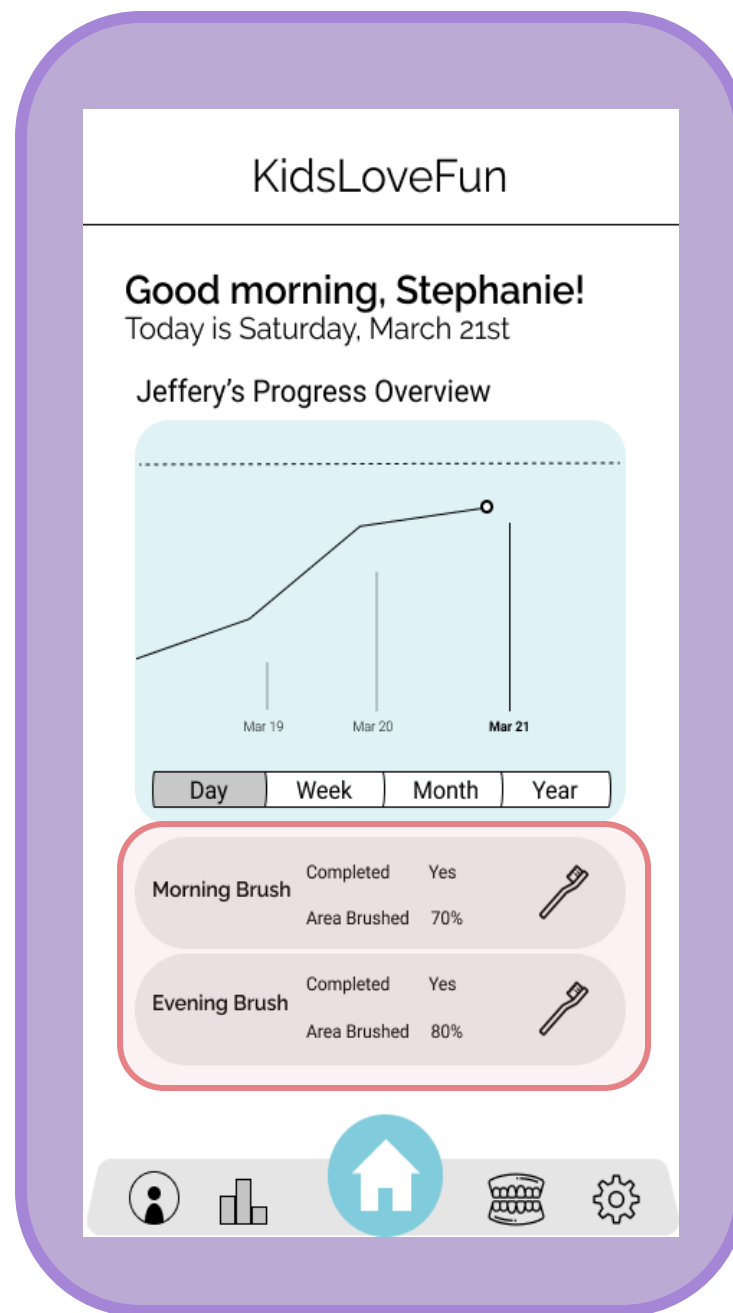
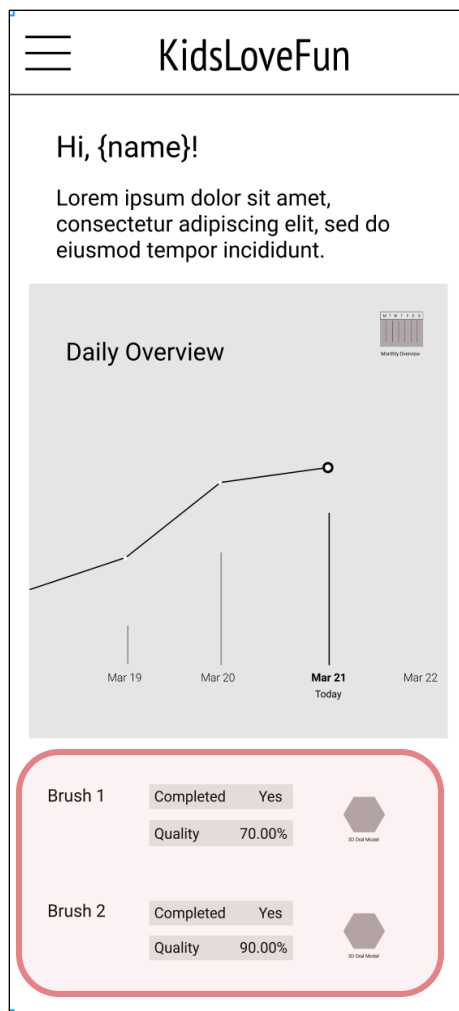
# Homepage



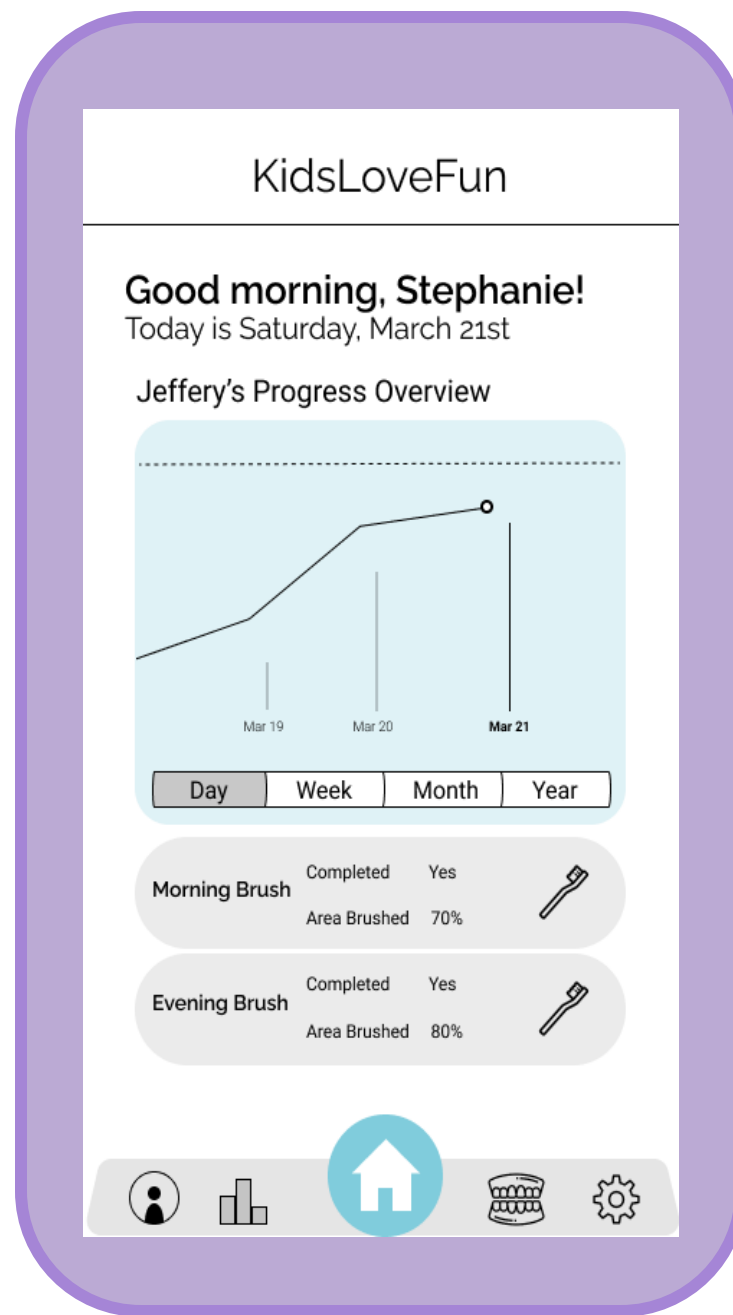
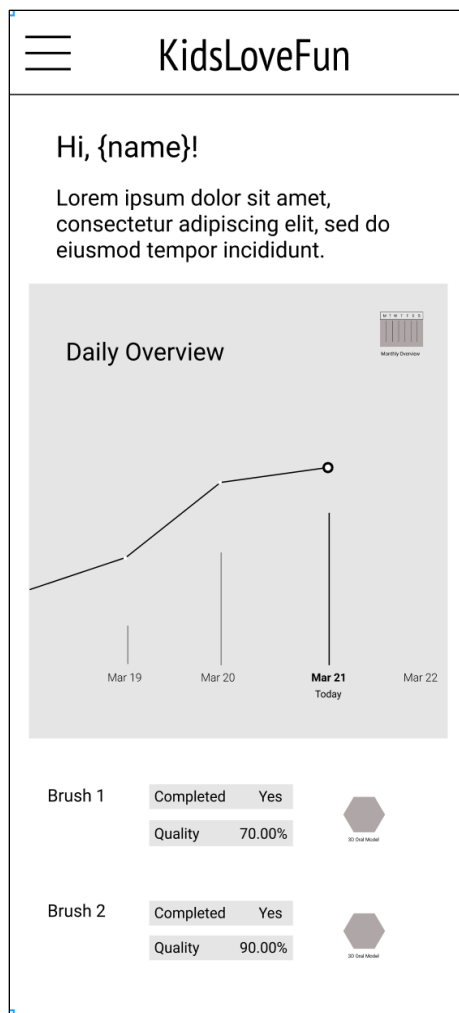
# Homepage



# Homepage

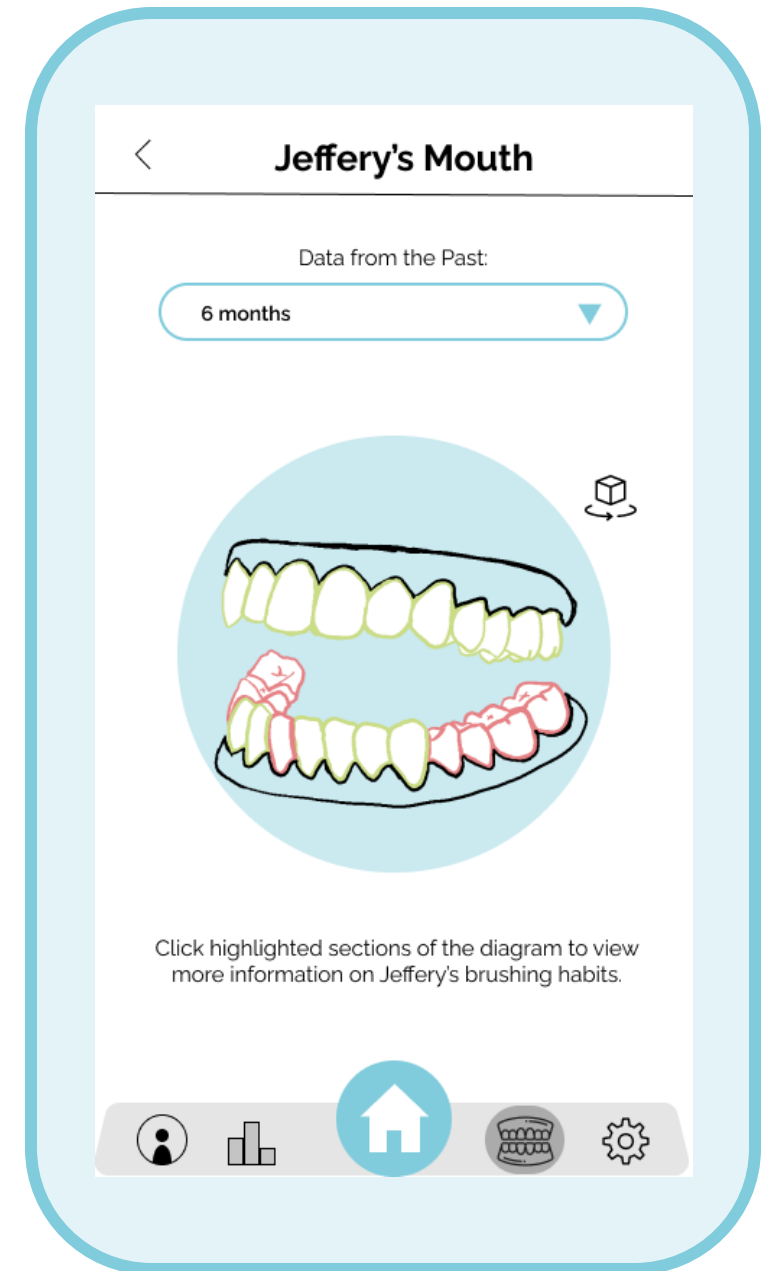
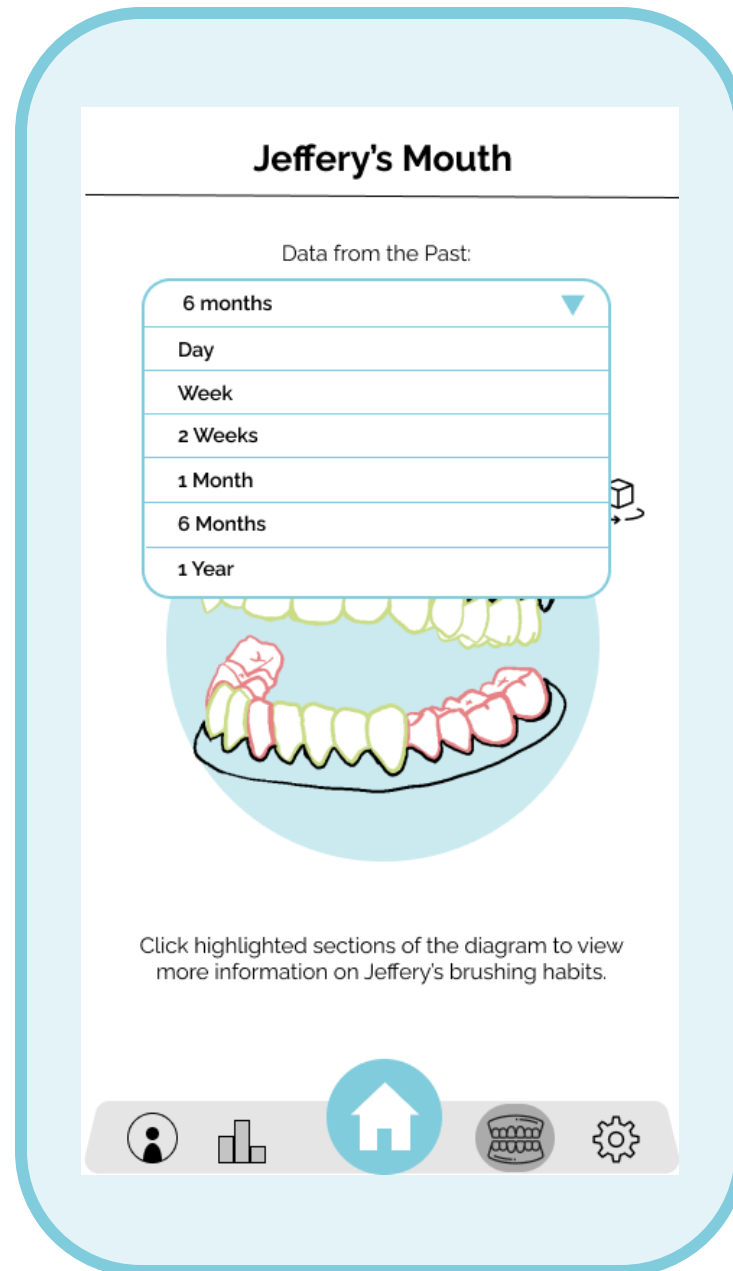
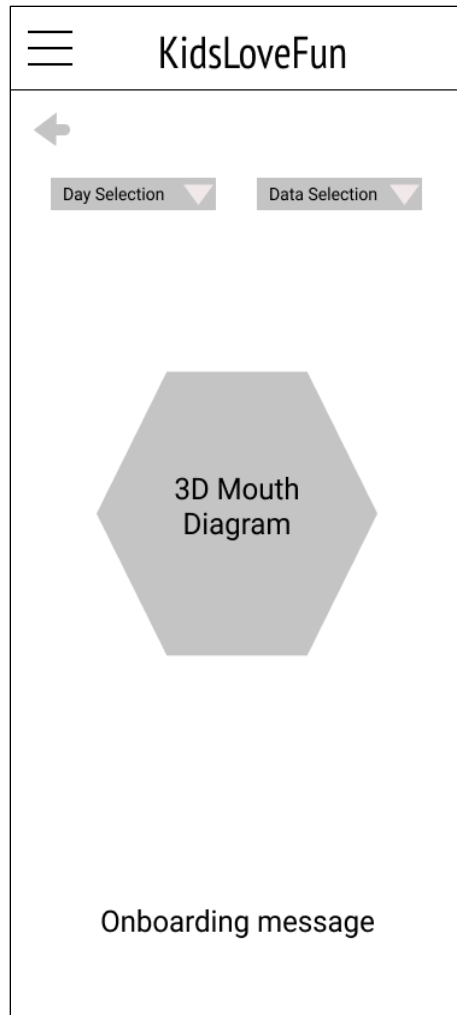


# Homepage

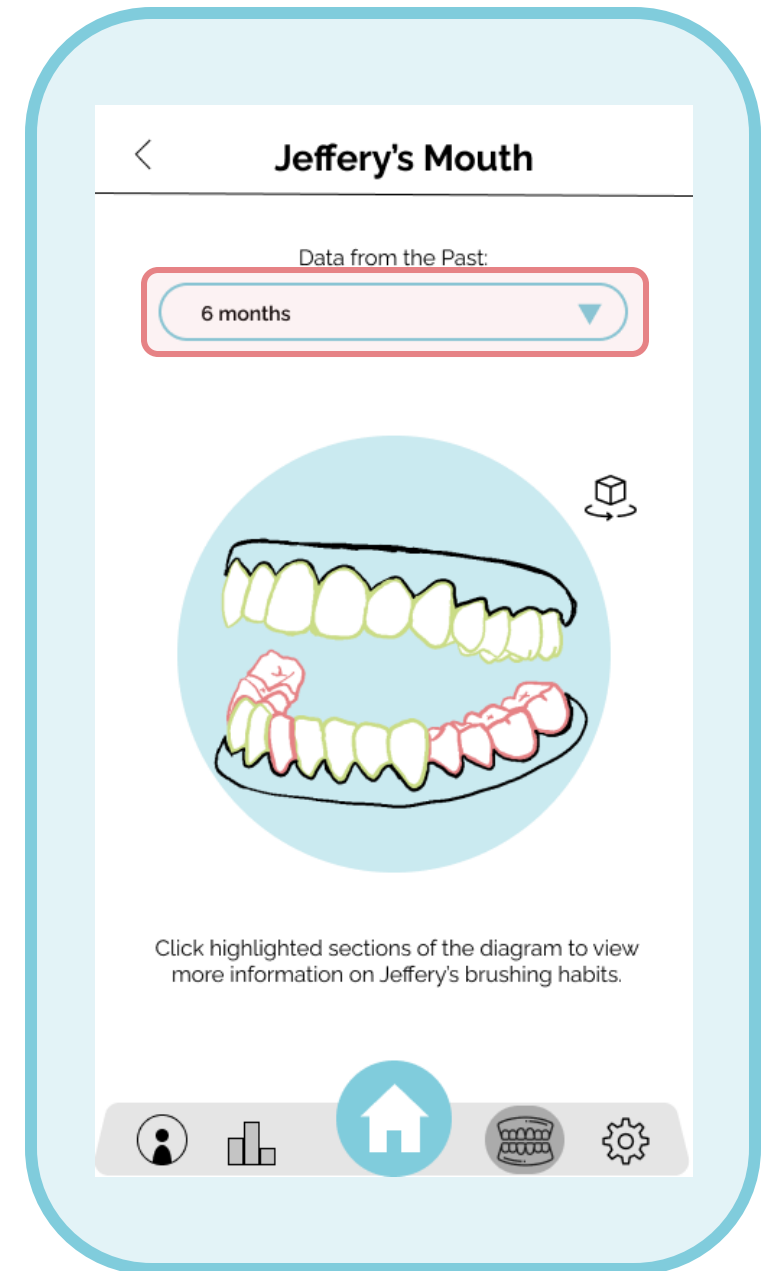
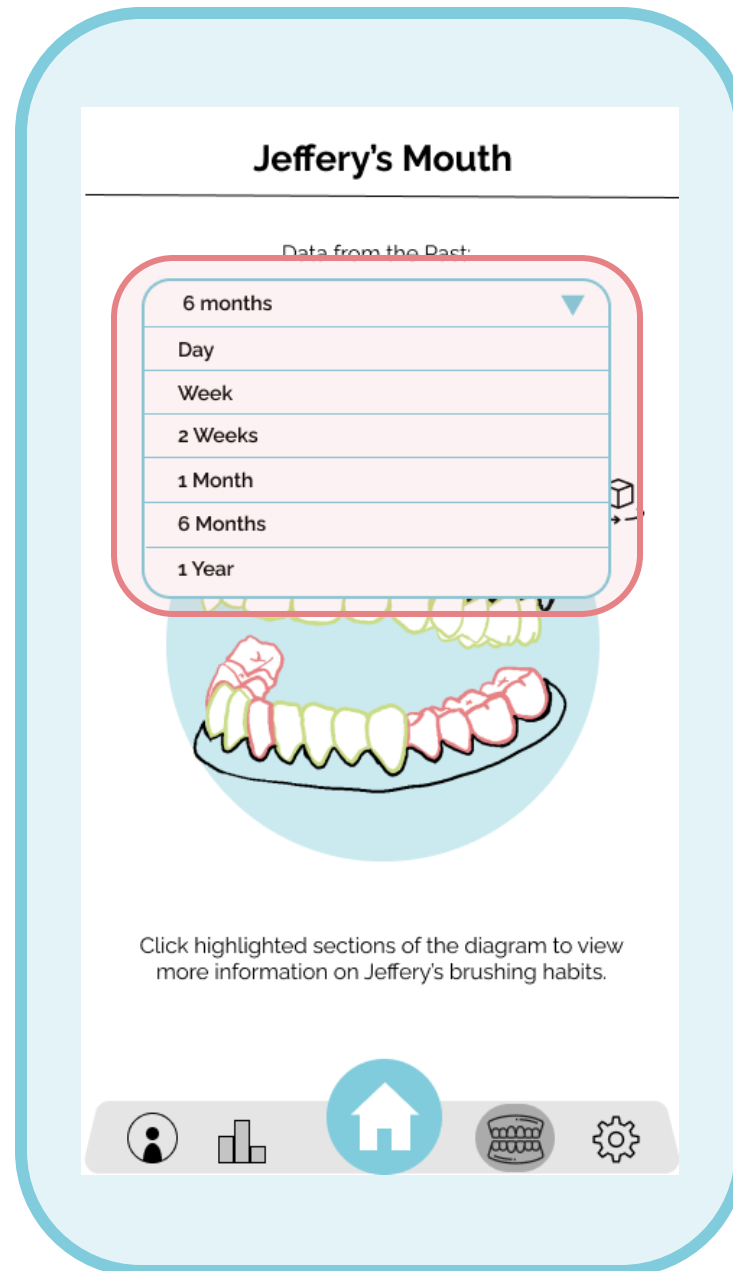
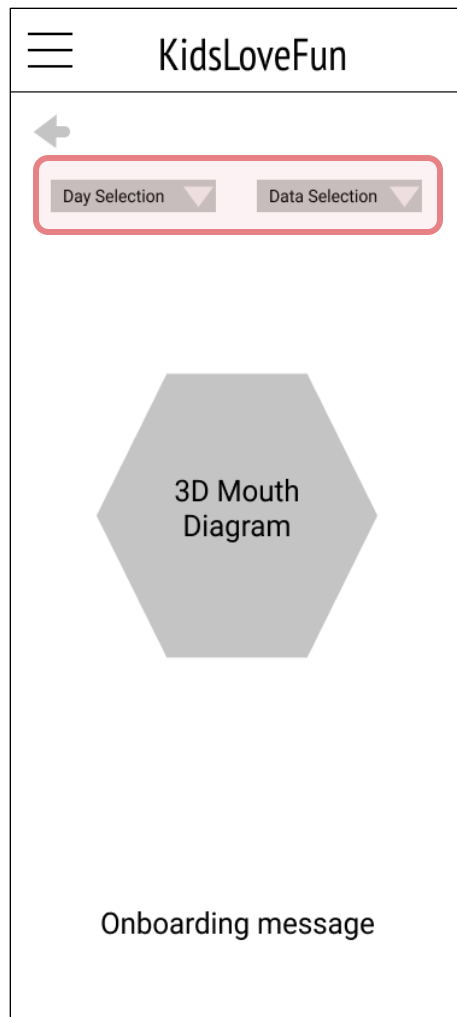




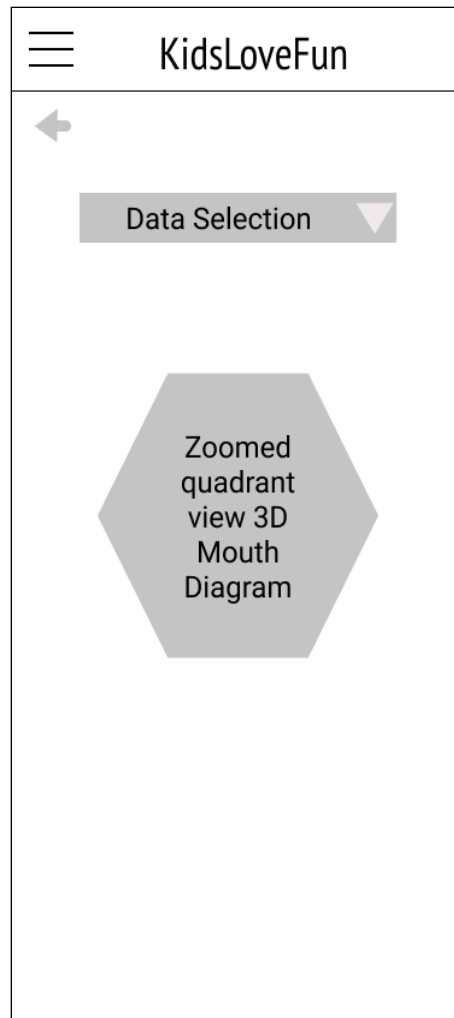
# 3D Model



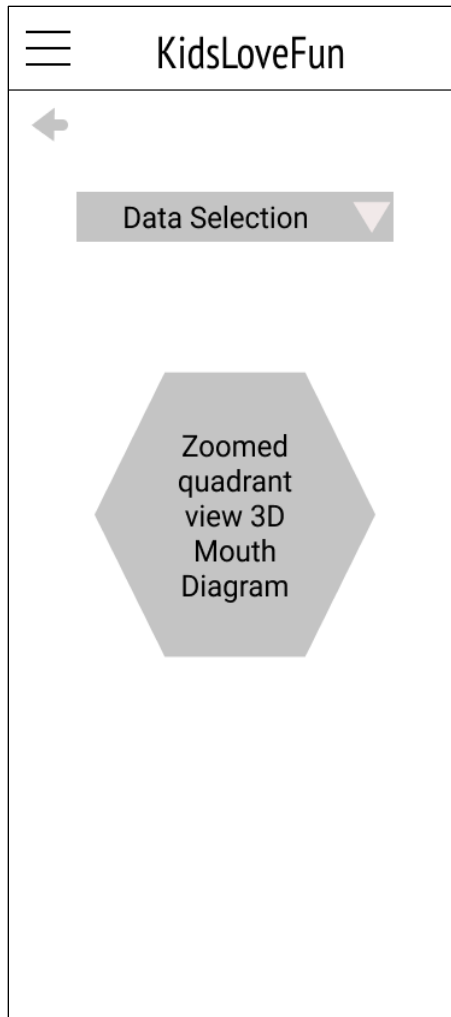
# 3D Model



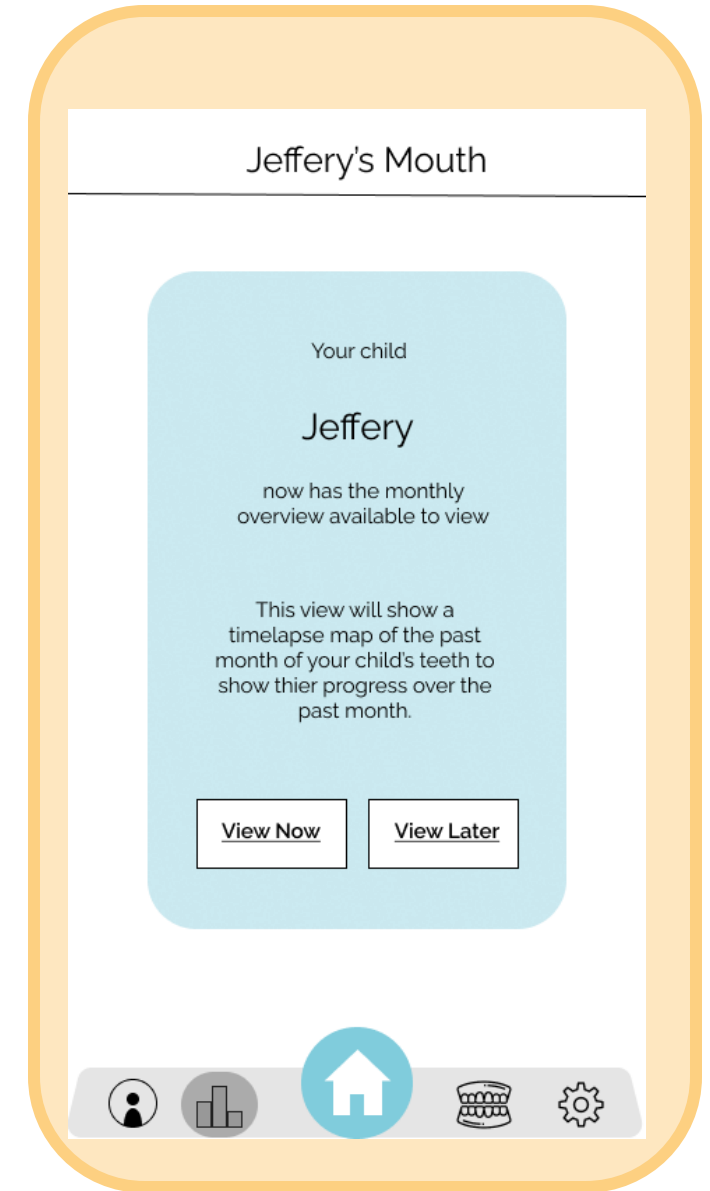
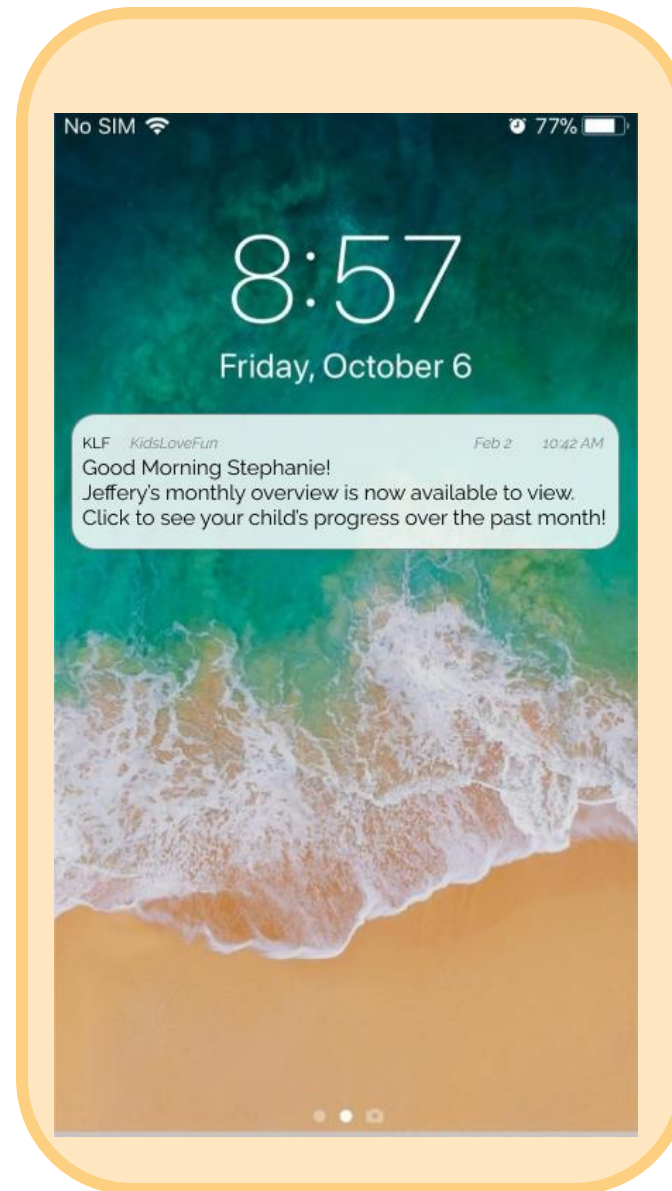
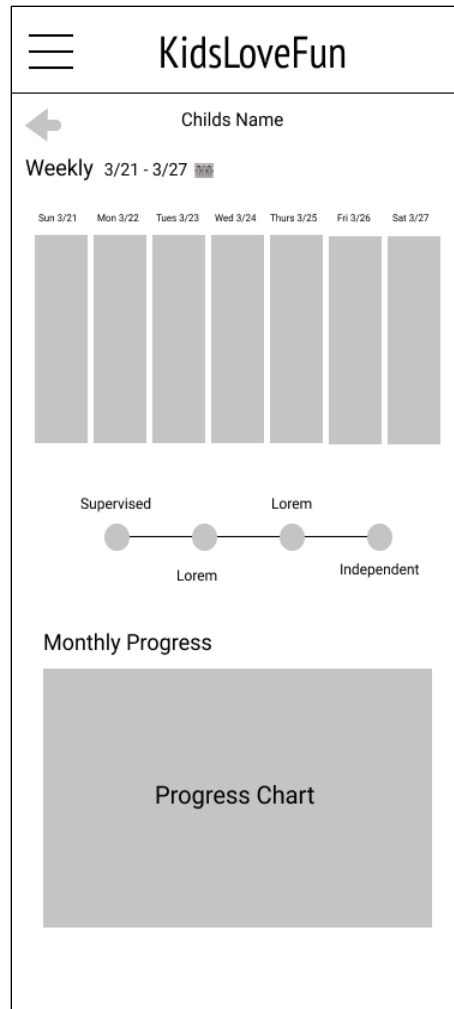
# 3D Model



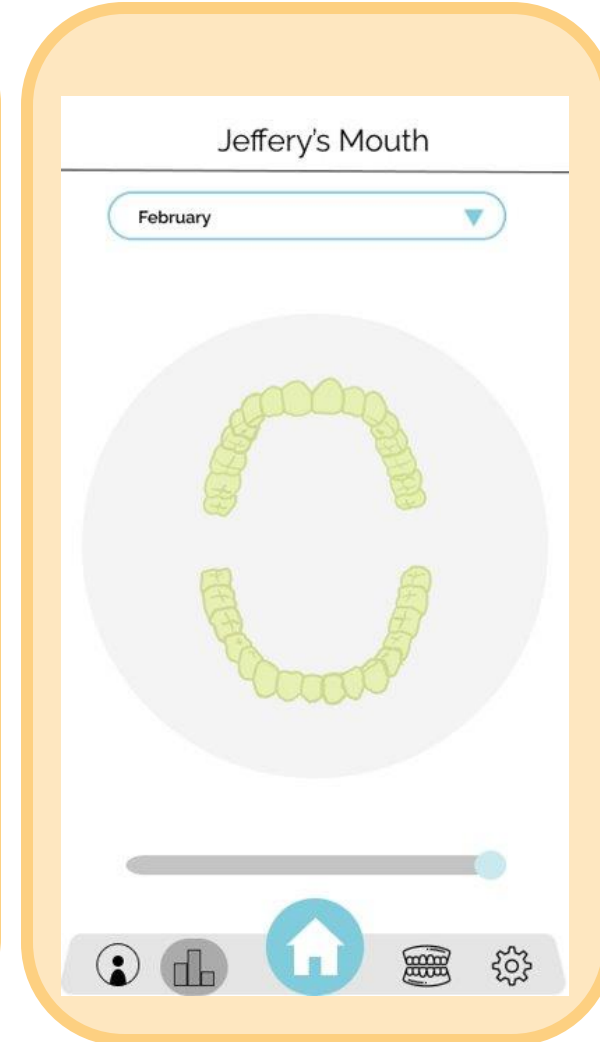
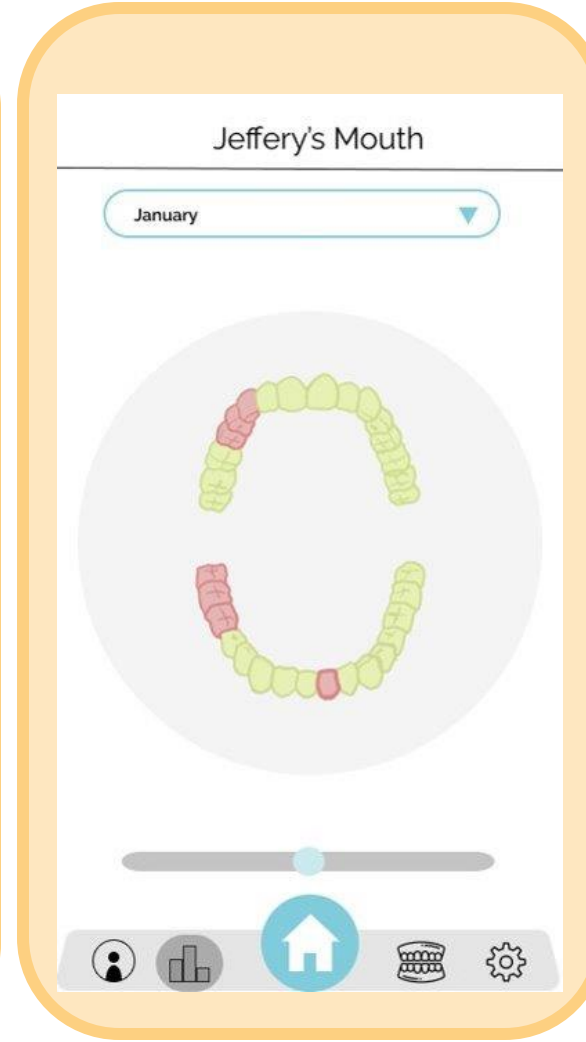
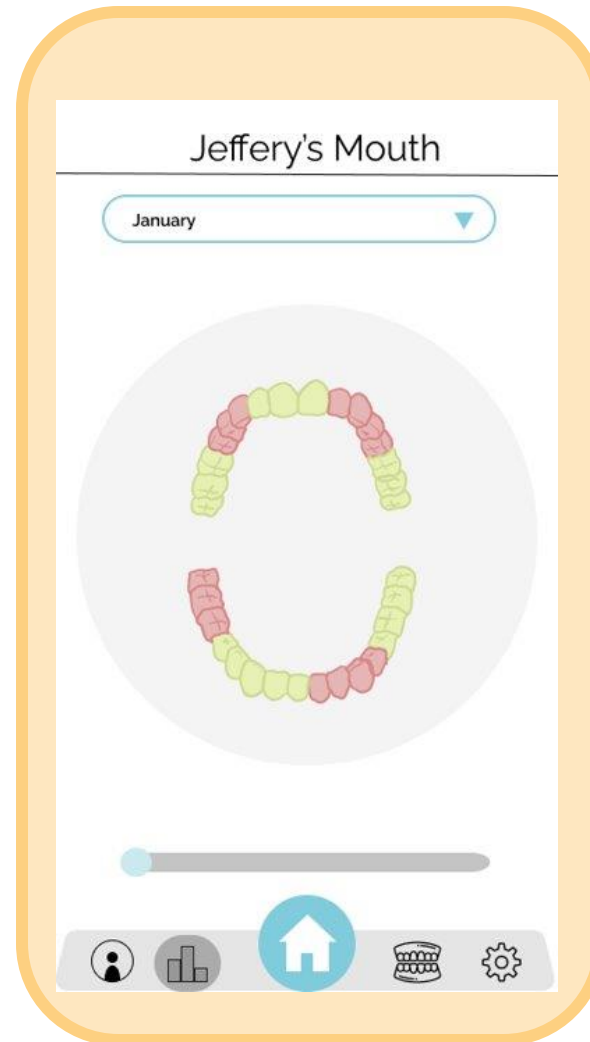
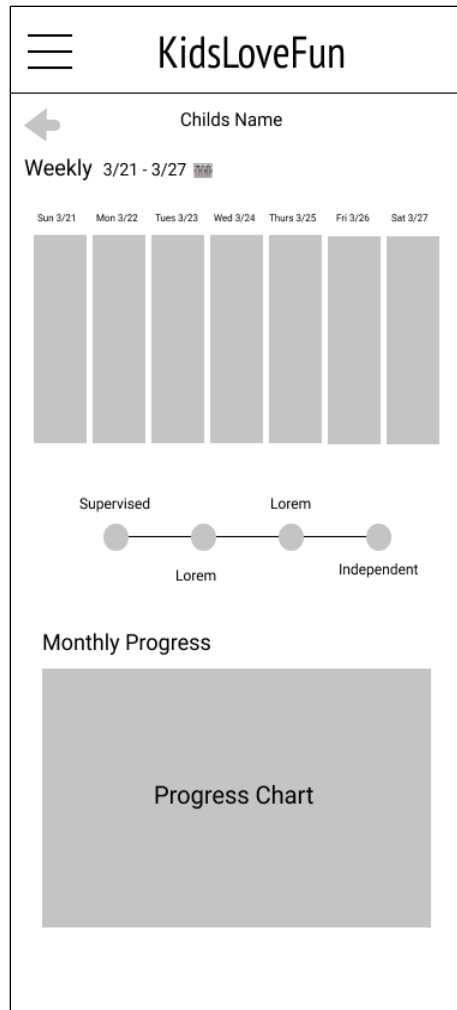
# 3D Model



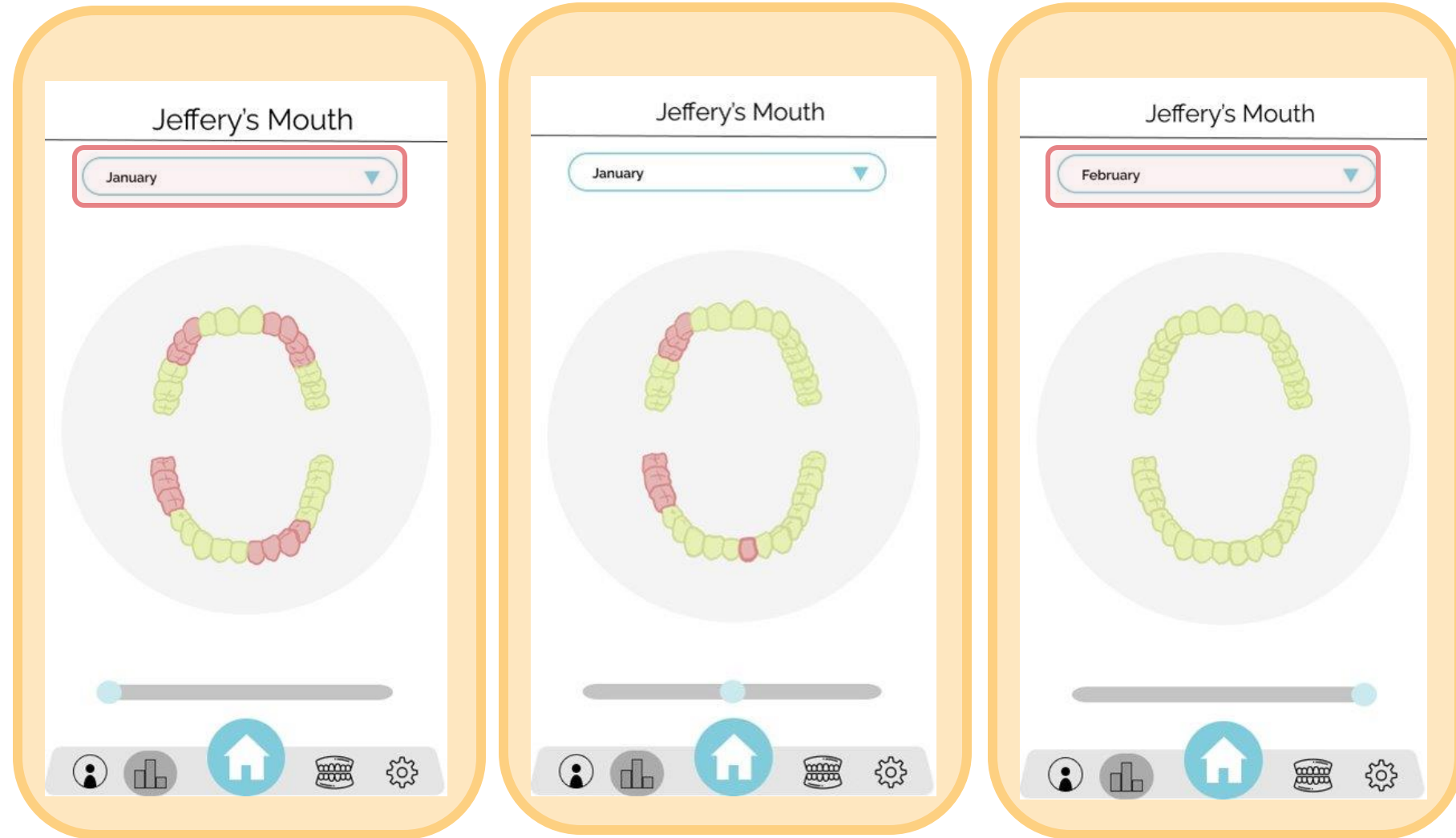
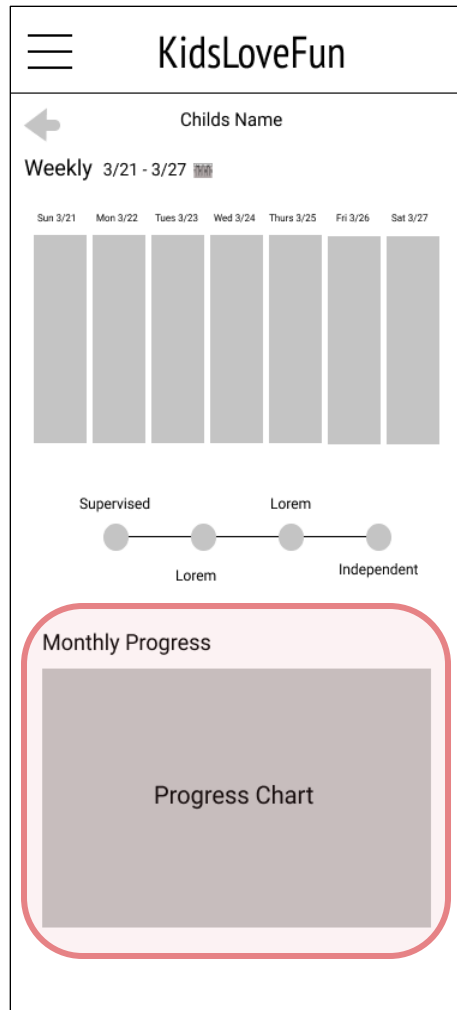
# Monthly Progress



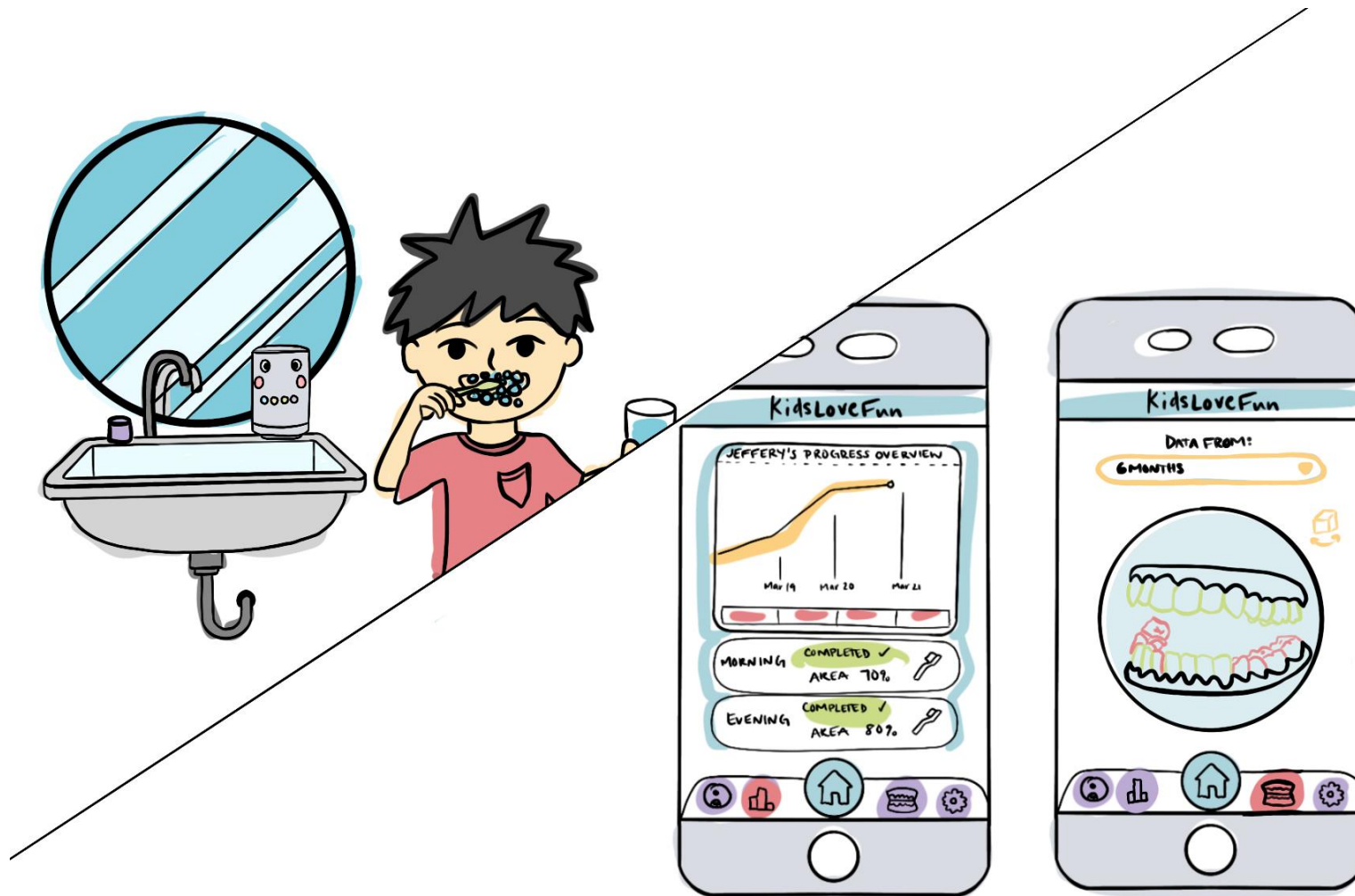
# Monthly Progress



# Monthly Progress



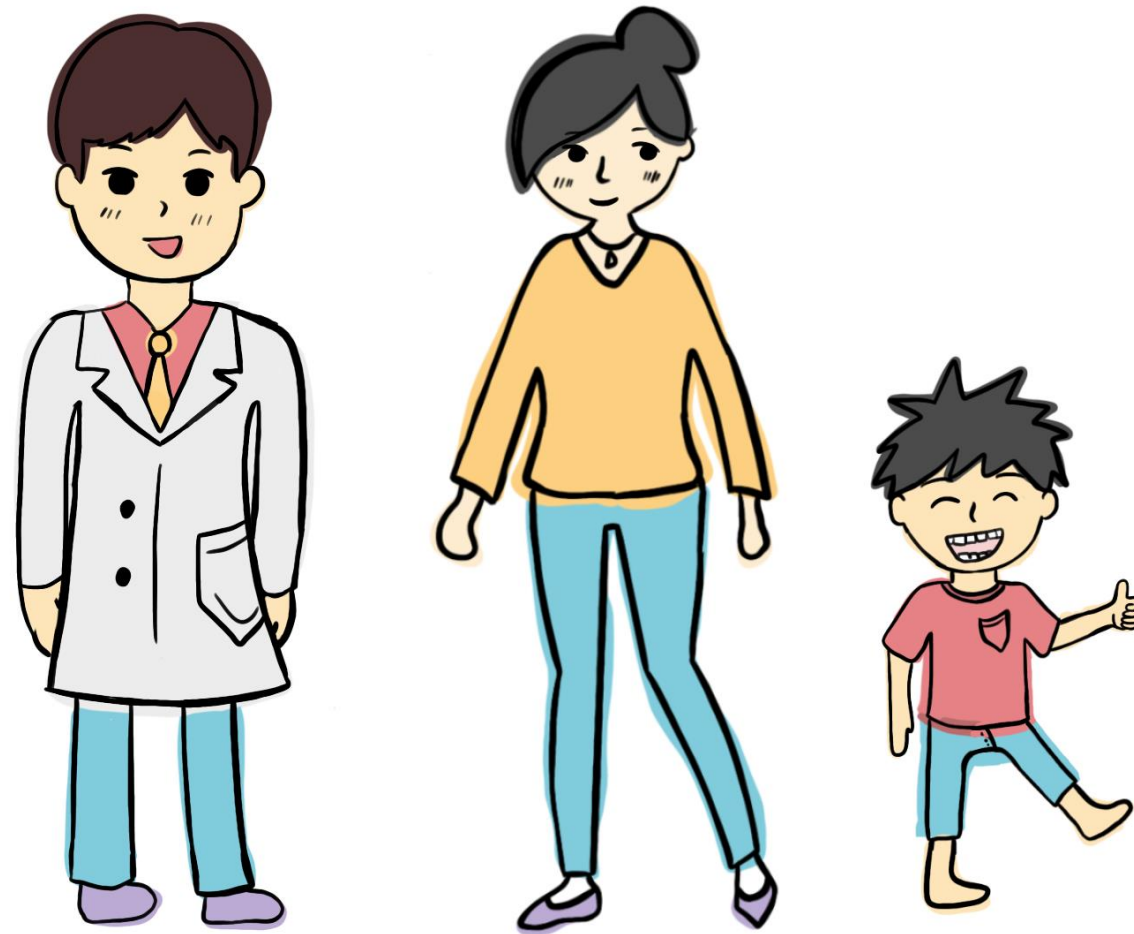




Stephanie can see the overall weekly improvement in Jeffery and is happy to see progress.



She can check up on Jeffery's brushing habits any time she needs to and knows when she needs make the time to step in to help her son.



Overall, the application has helped Stephanie understand what specific brushing habits her son needs to improve upon.

# Reflection

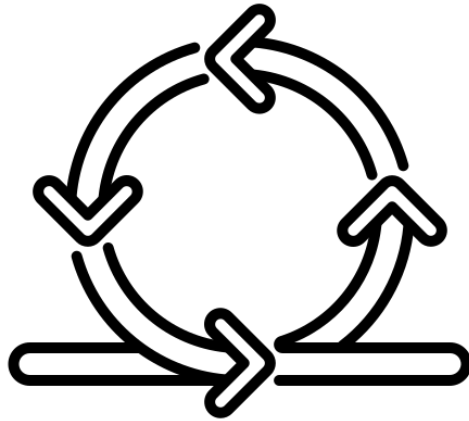


Barriers we worked  
through



Where our solution may  
fall short

# Next Steps



Final Iteration



Finalize Documentation



Questions?