Table of Content

00 Recap

Problem Space

Online Education for 8-12 year old children in developing countries

The pandemic has dramatically changed education around the world, with more than 1.2 billion children in 186 countries affected by school closures. And insufficient hospitals and low vaccination rates in countries like Iran have caused many schools to shut down completely. Elementary-age children (ages 7–12) have had to learn how to work with computers and video conferencing applications and cope with new, remote learning methods. While some believe the unplanned and rapid move to online learning will result in poor educational experiences and outcomes, others see the potential for a new hybrid model of education to emerge with significant benefits for developing countries.

How Might We?

How Might We

How might we facilitate more effective and sustainable online learning experiences for students and teachers in developing countries?

- Have a narrowed user group that let you start thinking about the solution with more constraints.
- Have a location constraint for your problem to start brainstorming with
- uses positive adjectives

How Might We

facilitate online education for both students (between ages of 8 to 12) and their instructors in developing countries

How is this facilitation?
What is the reason of it?

How Might We

help chidren between ages of 8 to 12 maintain their physical health and can participate efficiently in their classes?

- The user group is too wide for following a HMW
- There are 2 things that this HMW want to solve 1) physical health 2)effect participation

4

User Centre Design

While a lot of teachers may think teaching online is easier and children are learning faster, learners have a different opinion.

Eduventures, Inc. (2006) found that about half of institutions and more than

60%

of **employers** generally accept the high quality of online learning, but students' perceptions differ. Only about

33%

of prospective **online students** said that they perceive the quality of online education to be "as good as or better than" face-to-face education.

Interview Guide

Opening

- What social medias do you use?
- How much time do you spend in social medias?
- What is your favorite application?
- Do you exercise?
- What do you do in your free time?
- How old are you?
- What is your favorite subject in school?

General Questions

- What do you expect from an online learning platform?
- Do you prefer online or offline?
- How long have you been online schooled?
- Did your GPA change after online learning?
- How do you see online classes?
- How did online schooling effected your relationship between your friends?
- When do you think you can go back to school?

Specific Questions

- What is biggest problem for you in online schools?
- What platform do you like the best for your online classes? Why?
- How teacher-student relationship has changed after online education?
- How do you send your homeworks to your teacher?

Wrap Up

- What would you change about the platform that you are using for online learning?
- What is the worst moment of online learning?
- What features would you add to your existing online learning platform?
- What do you like to have in your online classes?

6

Name: **Hanna Sheller**

Age: **10 Years old** **Gender:** **Female**

Country: **Iran** **Language:** **Persian**

Devices: **Her mother's phone** **Family:** **Lives wit her mom and dad**

"I don't like online learning, because I have to sit behind the computer all day, and working with technology is very confusing for me too. "

Bio

- Hanna is a ten-year-old student who has been online schooled because of COVID. Her parents didn't let her use their cellphone before, but as all the classes are online she has to spend a lot of her time behind the computer or on a mobile device. She didn't know how to work with technology but she tried her best to learn it as fast as possible. She uses her cellphone for talking to her friends, participating in online classes, taking photos of her homework, and watching educational videos.

Frutrations

- I don't know what are the options under the video calling screen. (like share screen or annotate ...)
- I always lose the files that the teacher sends me after teaching a subject
- I don't know what is my homeworks and how should I do it!
- I spend a lot of time behind the laptop and I feel like I don't exercise enough
- I struggle with sending my homeworks to the teacher

Touch points

Motivations

Loves video calling with her friends

Wants to have the best grades in her class

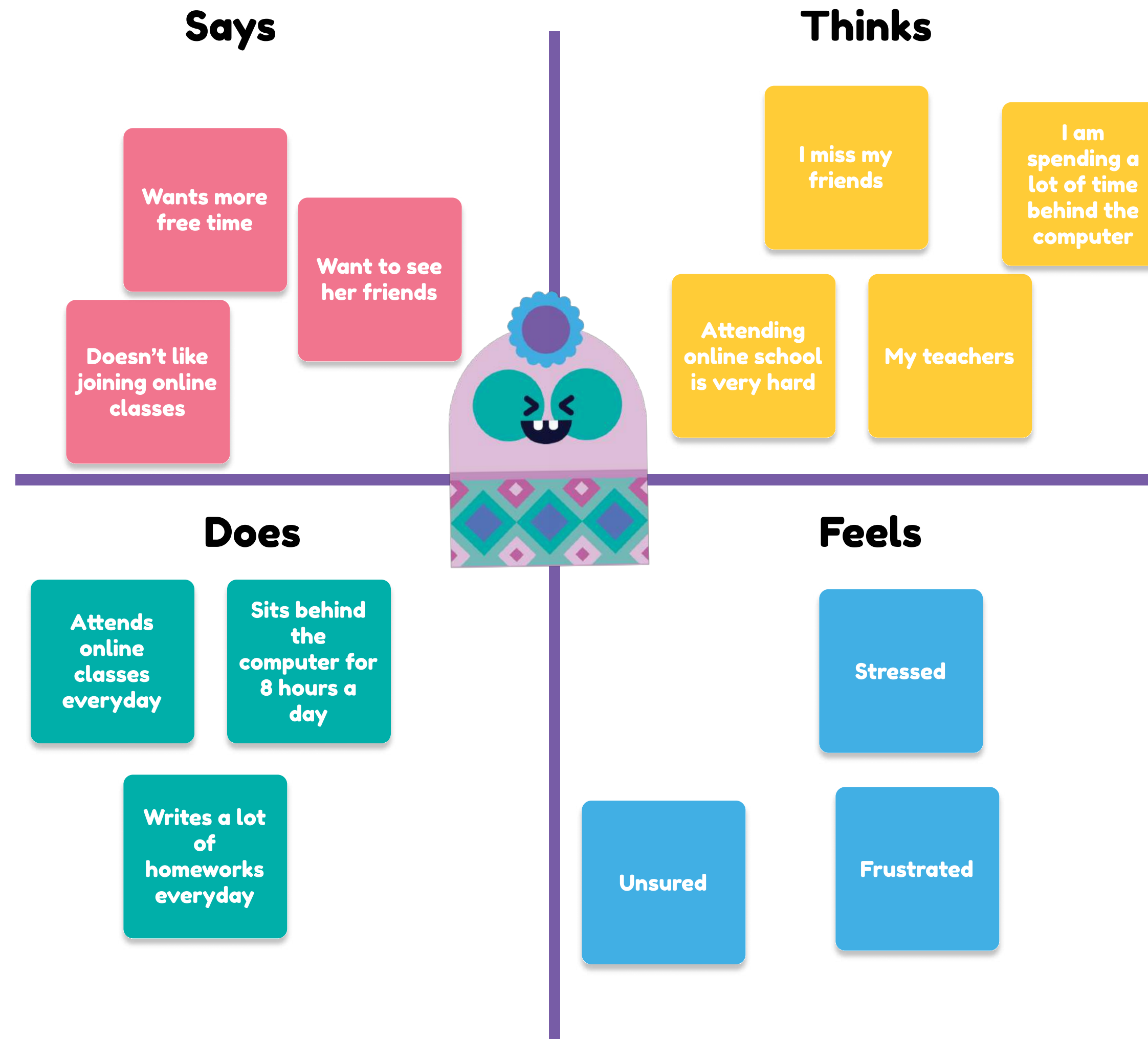Wants to be able to participate in her online classes

Personality

Out going

Enjoy Reading books

Competetive

Non Tech savvy

Goals

- To have an easy to work platform for participating in online classes
- To be able to upload my homeworks easily
- To be able to find the content that my teacher has thought today and download it
- To import my handwritten notes to an online platform next to my teacher's notes.

Empathy Map

Says

Wants more free time

Want to see her friends

Doesn't like joining online classes

Thinks

I miss my friends

I am spending a lot of time behind the computer

Attending online school is very hard

My teachers

Does

Attends online classes everyday

Sits behind the computer for 8 hours a day

Writes a lot of homeworks everyday

Feels

Stressed

Unsured

Frustrated

01 User Stories

Epics

The Logic Behind

Epic: Video calling/communication functionality

As a	I want to	So that
Students	Ask my questions in a reasonable time	I can clarify my learnings
Students	Participate meaningfully in the classes	Teacher can see how am I doing and gives me feedback
Parent	be able to communicate with my child's teacher	I know about the progress of her in school
Student	be able to communicate with my teacher	Ask them questions I might have about my school work or grades
Student	be able to talk with my classmates about the projects	We can do them together
Teacher	Reply to student messages	they feel I am reachable/accessible to them.
Teacher	be able to talk with each student individually	I can ensure them that they are in the right track
Students	have a lot of animations and cool design in the app	to make the material and design more understanble

Epic: Screen Time management

As a	I want to	So that
Student	Go through my lessons efficiently	I can spend less time using the computer for school
Student	know how much time I spent behind the computer	I can manage my time
Parent	be able to see the screen time	I can manage the screen time
Parent	Be able to lock the screen whenever my child reaches the internet usage time limit	so that I can control that she is not spending so much time on the phone
Parent	be able to see the screen time	I can remind my child to stand up and excercise
Teacher	make sure my students are not sitting behind the laptop all day	I know their physical health is not at risk
Teacher	I want to set a limit for my student's screen time	They won't sit behind their computers all day
Student	I want to help my students manage their screen time	they stay healty as they study online

Epic: Class Material Management

As a	I want to	So that
Students	Record my classes	I can reach them for studying
Students	To have the content that my teacher shares	I can study after class finishes
Students	be have a PDF of the class presentation	I can highlight it and review it easily
Teacher	Can share the teaching material easily	My students can have access to it
Teacher	Share course content	my students can view it on their own time outside of class
Student	Can upload my handwritten notes	I can read them and access them when studying
Student	Organize my lessons	I can access them later.
Student	to know what was today's lesson	If I couldn't attend to class I can access the material.
Student	organize my content by date	I can see the previous lesson that has been thought in order to review it before the class

12

Epic: Student Onboarding

As a	I want to	So that
Student	to be able to learn how to use the app quickly	I can get started learning
Student	have a easy to work application	I don't spend my time learning it
Student	Can upload my handwritten notes	I can read them and access them when studying
Student	Organize my lessons	I can access them later.
Student	Upload my homework easier	It can be done efficiently and before the deadline

Epic: Managing Assignments

As a	I want to	So that
Teacher	Share course content	my students can view it on their own time outside of class
Teacher	Can see all the student's schedule	So I don't give them a lot of homework when they have another due.
Teacher	aggregating all the homeworks in the app	I can check them and see them in one place
Parent	Know about my child's schedule	I can help them plan their day.
Parent	Know about my daughter's homework	I can remind her about doing it and turning it in correctly and
Student	Upload my homework easier	It can be done efficiently and before the deadline

14

Epic: Scheduling Classes

As a	I want to	So that
Students	make a schedule for my classes	I know when do I have class
Teacher	Can see all the student's schedule	So I don't give them a lot of homework when they have another due.
Parent	Know about my child's schedule	I can help them plan their day.

The 3 Epics that I am going to choose for the first phase of this project is:
Scheduling Classes, Managing Assignments,Class Material Management
As these 3 epics are the main tasks for having an online education system.
For having an online platform, being able to upload the assignments , downloading the content and participating in online classes are the basic needs of a student.
We can add the other epics as task flows, In the second phase of the project.

02 Task Flow

Which is Which?

We have chosen 3 main epics for making our task flows.
As these 3 epics are all necessary but can't be included in a single task flow, I have made 3 different task flows for them.
Students are going enter each flow by clicking different tabs in the navigation bar.
There are 5 tabs in the navigation bar including:

Homepage   First Task flow(Epic:Scheduling Classes)

Homepage

Content   Second Task flow(EpicClass Material Management)

Content

Homeworks   Third Task flow(Epic Managing Assignments)

Assignments
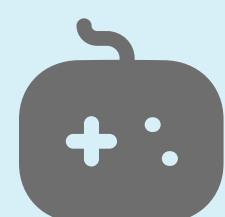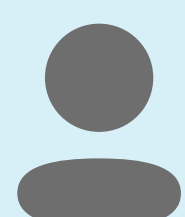
Having the breaktime and My account in the nav bar make us
 remember that there will be 2 other task flows in this application

Break Time   My Account

Question Modal flow

Homepage → Join a classroom → The classroom video call → The question modal pops up → Answer to the quiz → Is the answer correct?

- N → Try Again error
- Y → Good Job page

Tap on Good Job → The classroom video call
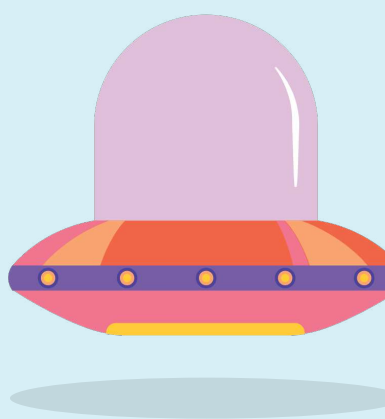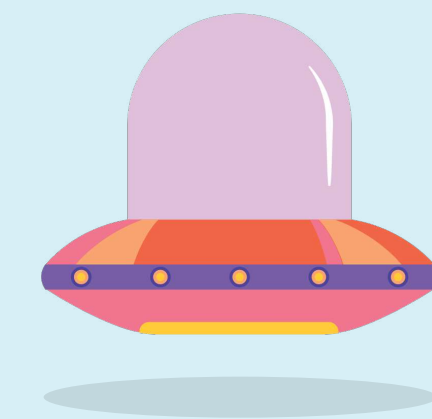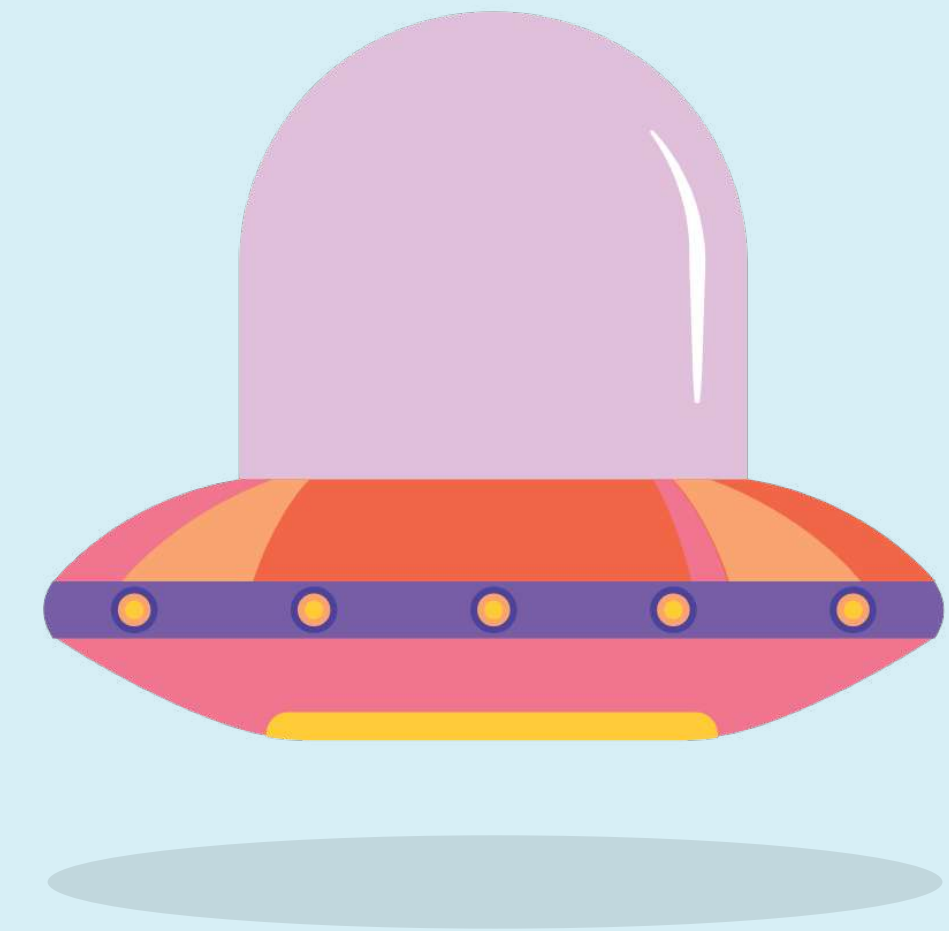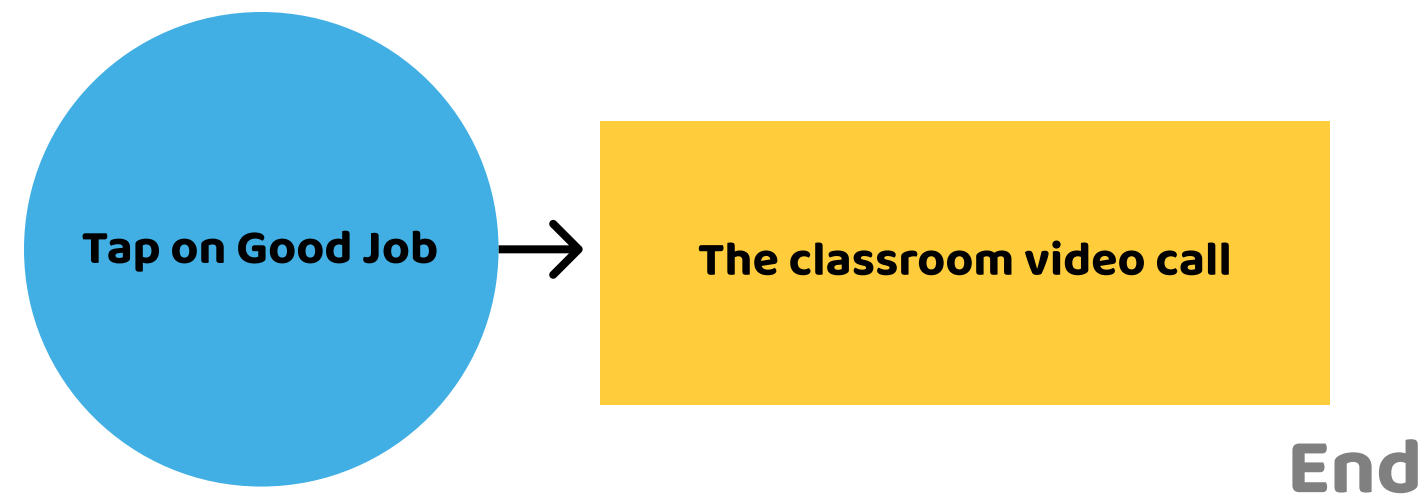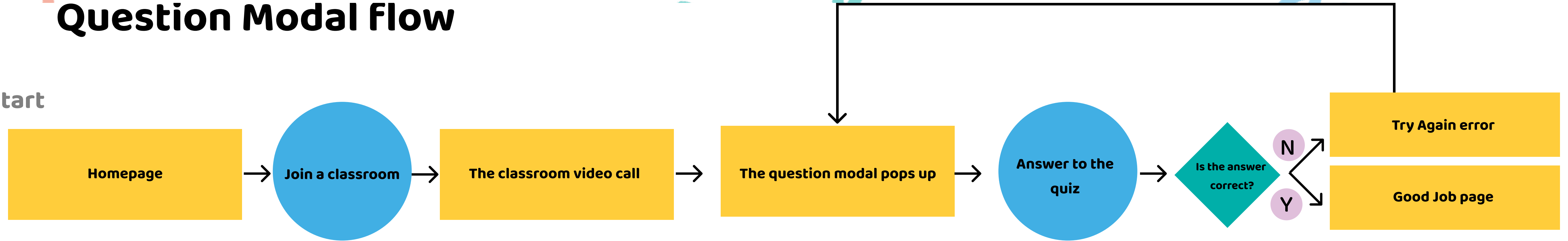
Persona: Teacher

Epic:communication functionality

User Story: As a **teacher** I want to **be able to know if my students understood the content that was taught in the class or not** so that **I can change the pace of the class according to my students knowledge**

Legend

Pages — User decisions — System Decisions

19

Downloading Class content

Homepage → User taps 'Content' icon on the nav bar → User arrives at their 'Content' page

Note: The all subjects that have content will show up

→ User taps 'English' to open up that course content → User arrives at the 'English' course detail page → User chooses a lesson from the menu → Is it locked?

Y → This content is locked!

N → User arrives at the lesson detail page

Note :**There will be 3 tabs on this page:**
- **Content** :Things that the instructor added to the platform
- **My notes:** Pictures of your written notes
- **Screen Recordings**

Taps on download button of the provided content → Download confirmation page → Download confirmation page

End

Persona: Student

Epic:Class Material Management

User Story: As a **student** I want to **be able to be able to download the content that I have learned** so that **I can review them after the class**

Legend

| Pages | User decisions | System Decisions |

20

Assignment Uploading

Note: There will be all the upcoming assignment in order of the time

Start

Homepage → Taps on the assignment tab in the nav bar → The assignment screen → Tap on the upcoming assignment → The assignment detail screen → Taps on the "see content notes" → The notes for that subject will appear

Taps on the assignment tab in the nav bar → The assignment detail screen → Taps on upload button → Upload confirmation page

End

Persona: Student

Epic: Managing Assignments

User Story: As a **student** I want to **be able to make sure about my homework's description** so that **I can get a good grade in my classes**

Legend

Pages

User decisions

System Decisions

21
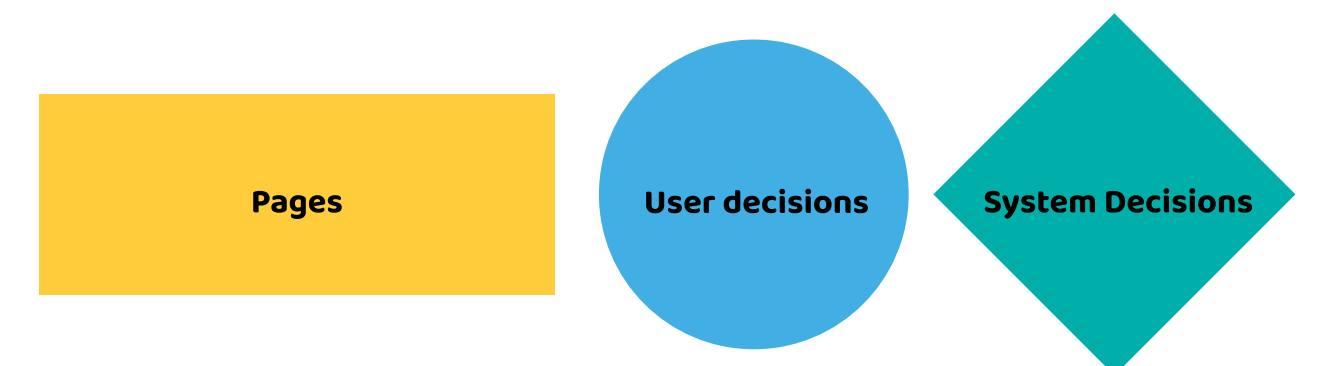
03 UI inspiration

Design For Kids

UI Inspirations

Have you ordered happy meal recently?

According to the Jean Piaget, kids' cognitive ability to reason, infer, and make connections is still developing. That development happens in different stages:

The preoperational stage: children (between the ages of 2 and 7) can think in terms of symbols, but they aren't yet able to effectively take other people's perspectives. Language skills are still developing.

The concrete operational stage: between the ages of **7 and 11**, kids learn how to use logic to make inferences and reason about the world.

In both stages, other key cognitive capacities are also immature:
the theory of mind (understanding the intentions and emotions of others),
cognitive flexibility (processing conflicting information and switching perspectives), and
executive function (planning and monitoring their own behaviors).

23
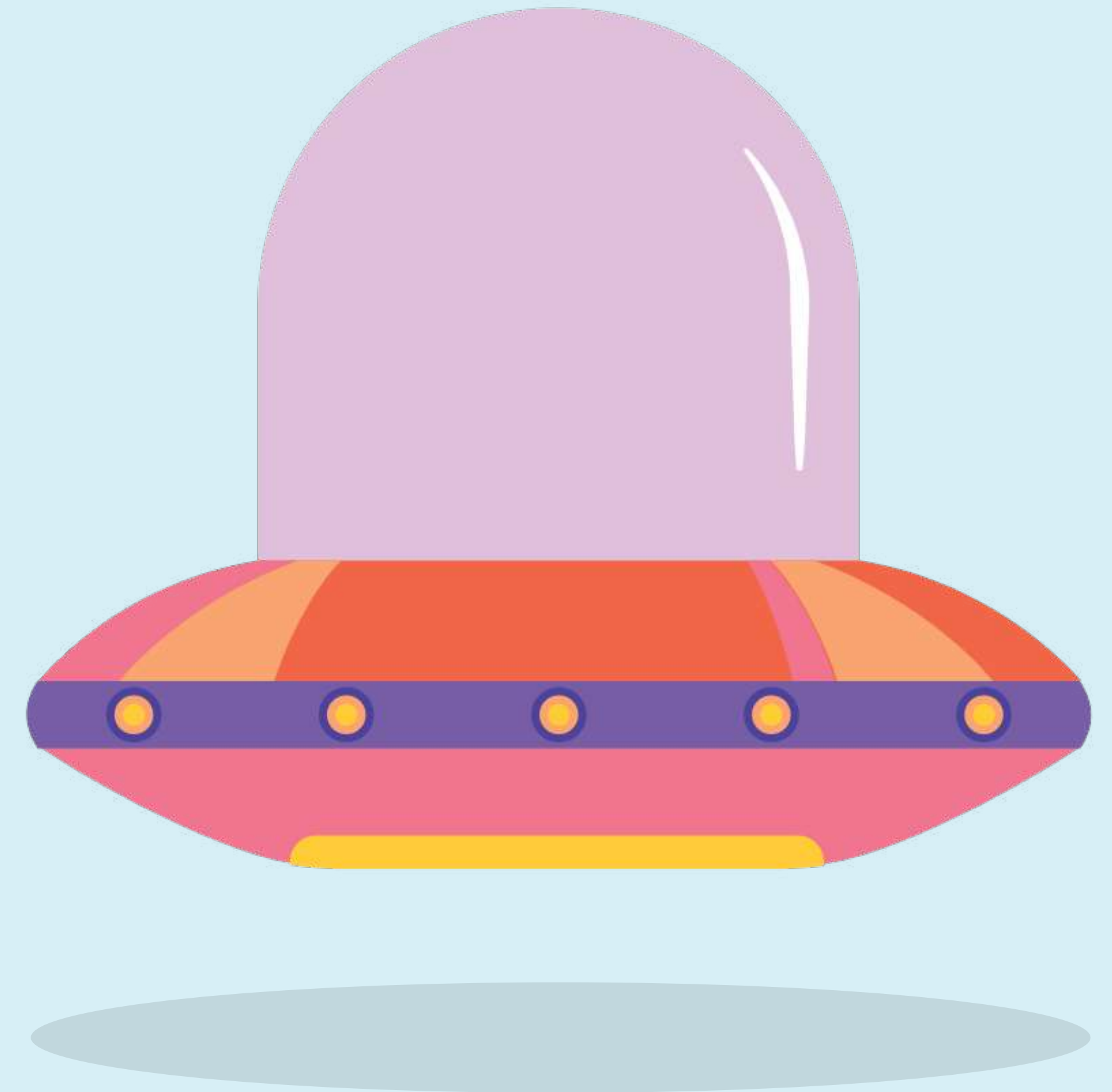
Application design for kids

Websites and apps should consider kids' **cognitive-development** stage in order to best support their **goals**, depending on the **target age range**. Here are five design recommendations:

1. Give kids **clear and specific** instructions by stating the **goal of a task** and **how to achieve it**.
2. **Instructions** should be tailored to the kids' level of understanding.
3. **Use existing mental models** and knowledge about the world to help kids accomplish tasks.
4. **Reduce cognitive load** by designing self-explanatory interfaces and preventing possible errors.
5. Instructions should be **clear and specific**, but not too prescriptive.

How to find inspirations?

As Designing for kids is a unique way of designing, it is better to find our **inspirations** from some **kid-friendly applications.**

I have gathered some UI inspirations for each page of the task flows to get familiar with designing for kids and know which application is easier for my end user.

As we can follow our Persona's most used apps to know where we can find inspirations. For **kids, it is different.** They haven't spent a lot of time on their phones and are **not familiar** with some features like swiping or tinder swiping.

So we have to keep everything **linear** and **simple** as possible.
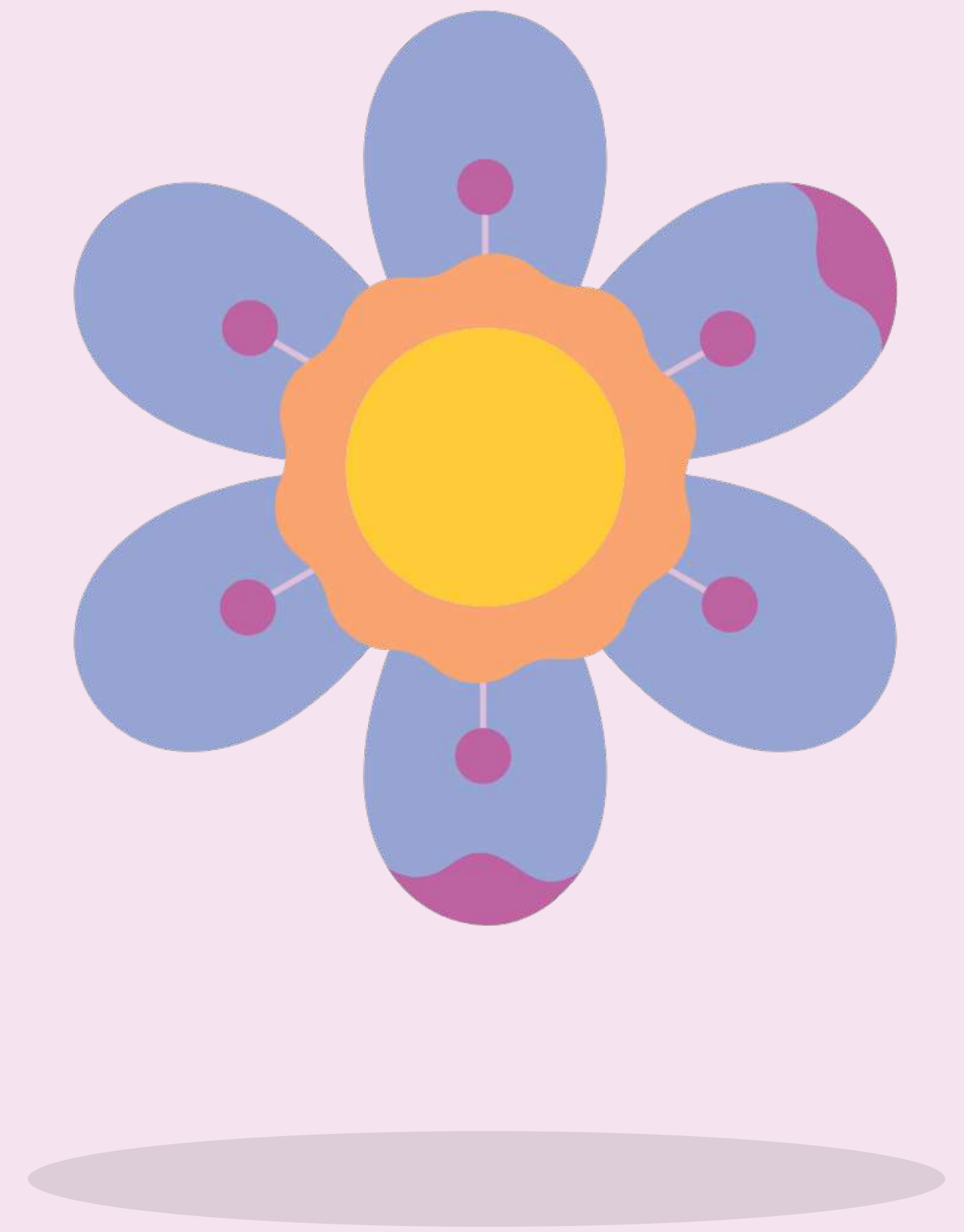
UI inspiratoon

Onboarding and login Page

As our users are kids, we want to keep the first page very simple and to the point.
We don't want to confuse childs with a lot of options.
Maybe adding a picture on the bottom of the page that is not very busy will encourage them to use the application, But we don't want to include a big picture with bright colors to distract them from the main task.
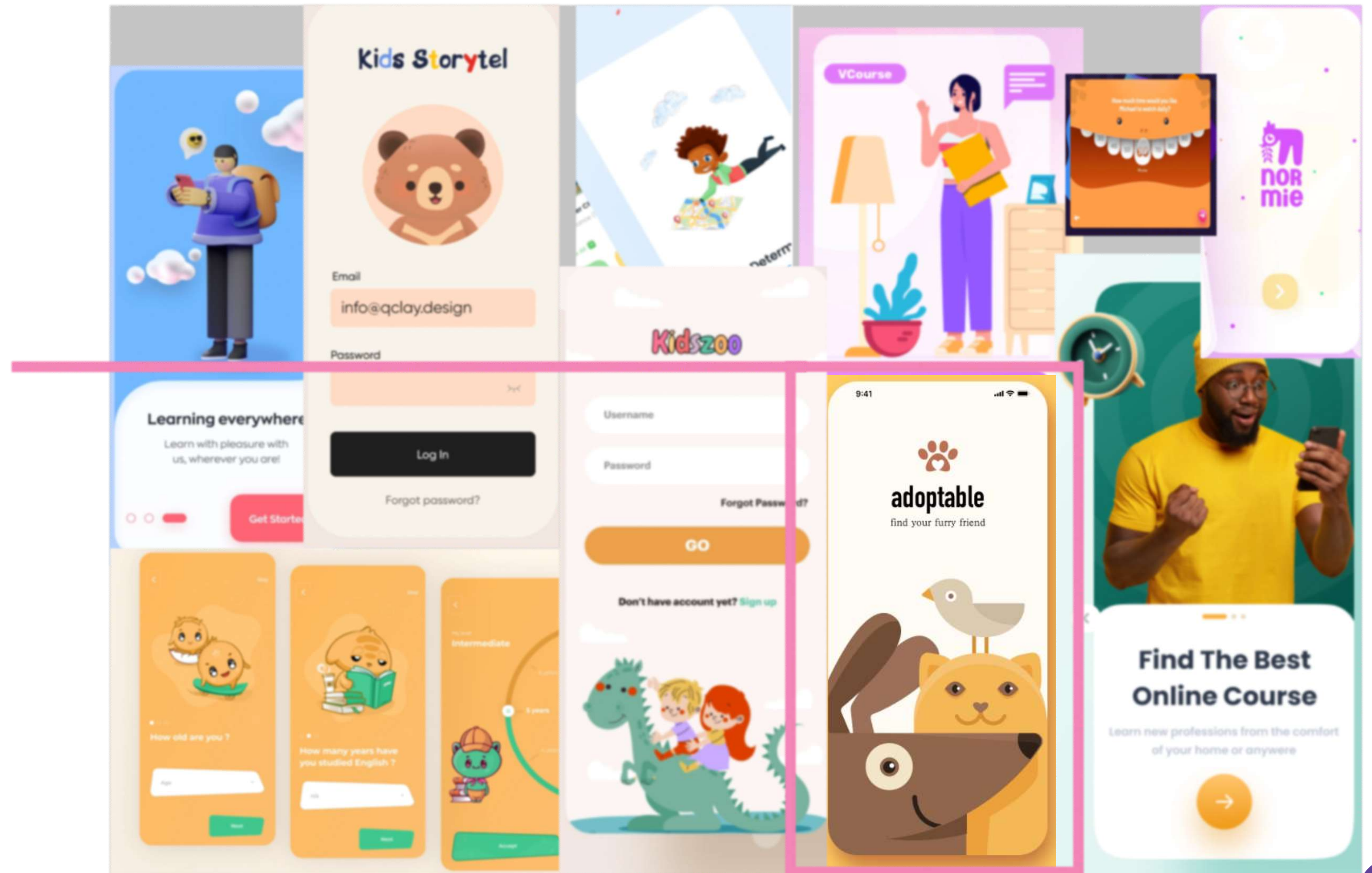
UI inspiratoon

Homepage layout

In the pages that we want to give them some options we will have a layout that each cart shows the information very clearly and we can help them to choose with some pictures too.

as their fingers are not used to working with cellphones we will make the cards big enough that when they tap anywhere near the card it takes them to the desired page.
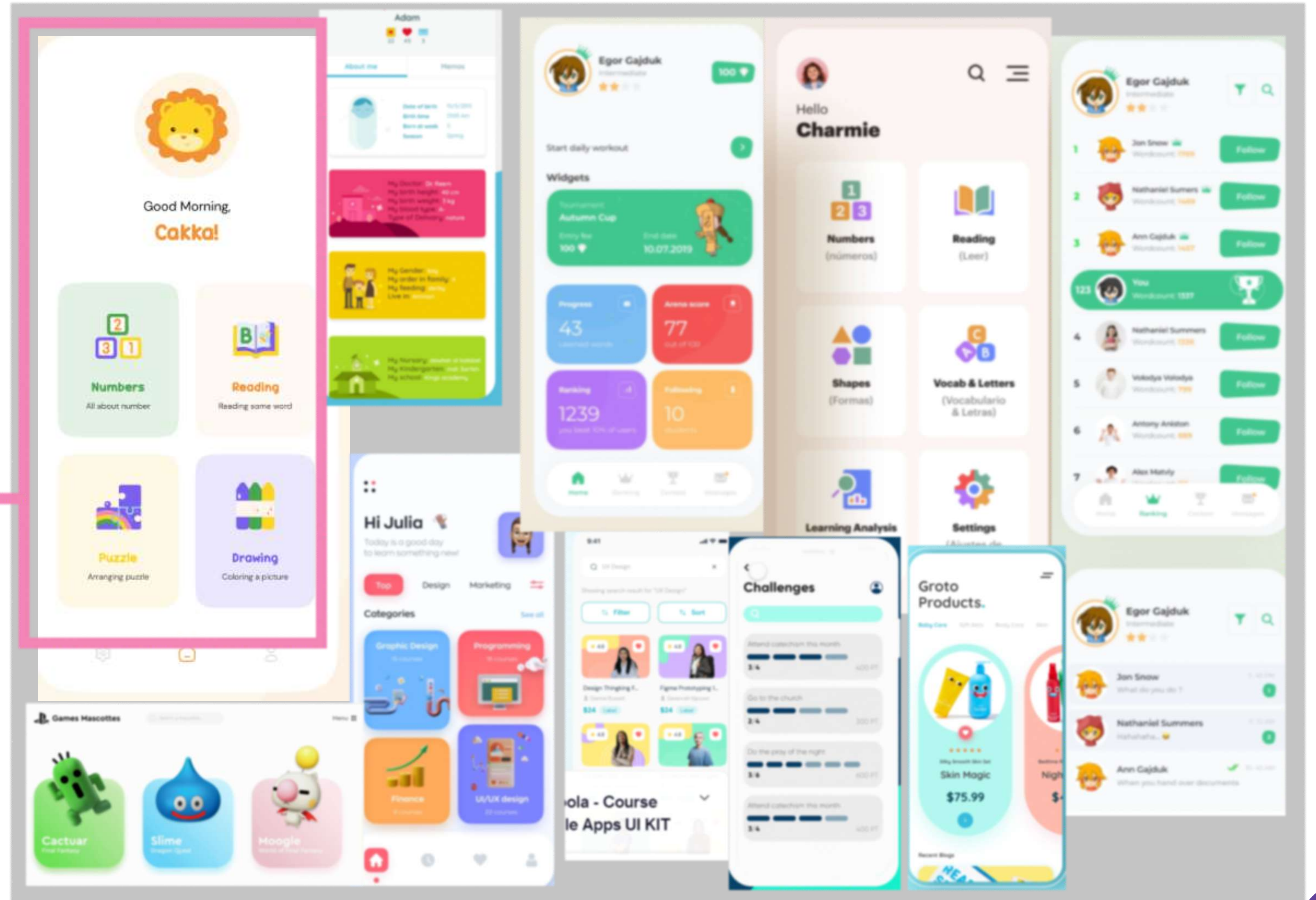
UI inspiratoon

Timetable

We want to show the schedule as easy as possible. We help the students find what class in live now and try not to include too much information on the card.
As the teacher and the classmates may be important aspects of the class we are going to include their names but we are going to show just today's classes and when it is on there will be a big JOIN button in that card.
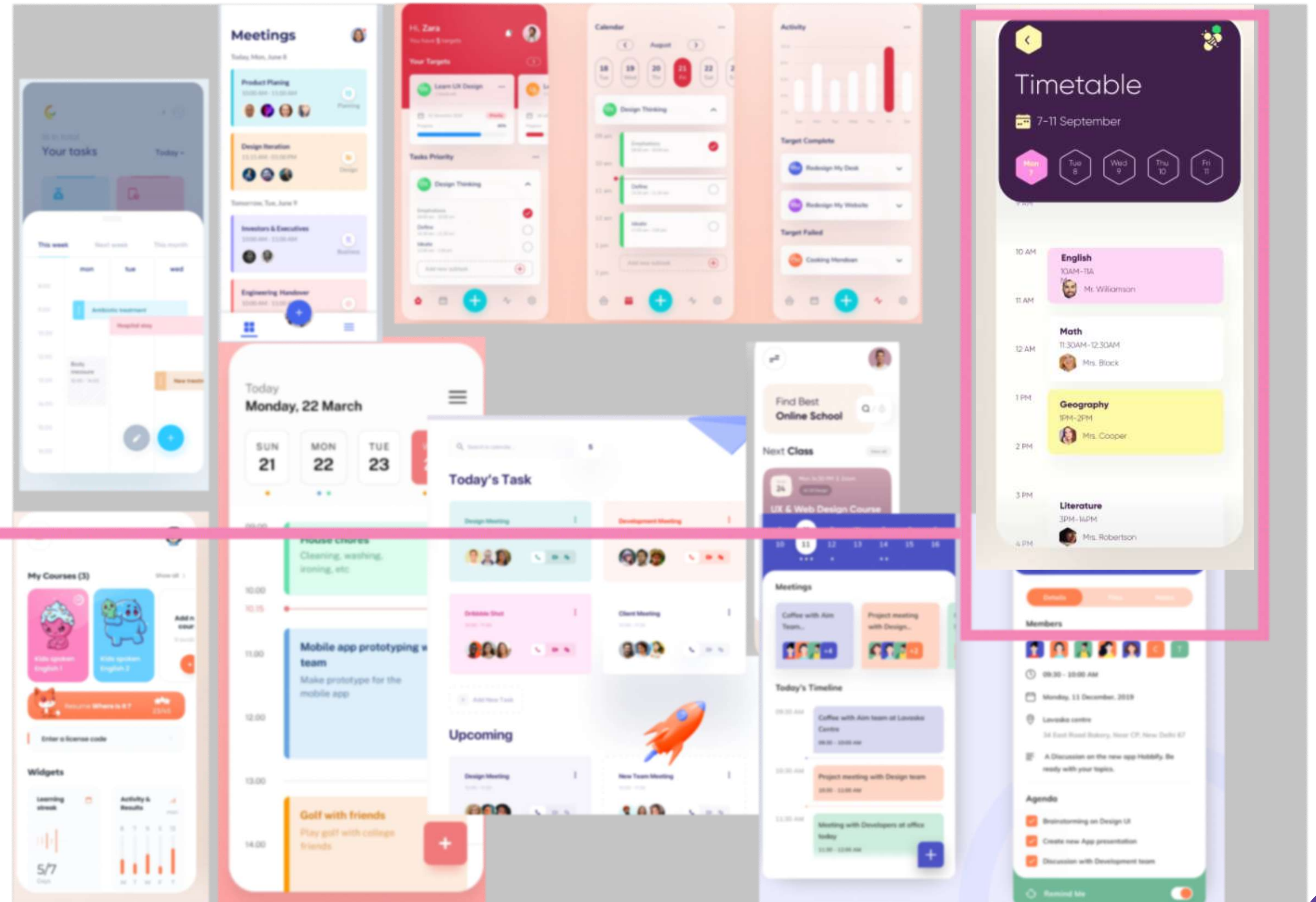
UI inspiratoon

Upload an assignment

For uploading the assignments a whole page will bring all the attention to only one task. So instead of a modal I think using a dedicated page to just selecting a file may be a good option

We want a loud and clear page to tell the yound children if they didn't upload a file correctly.
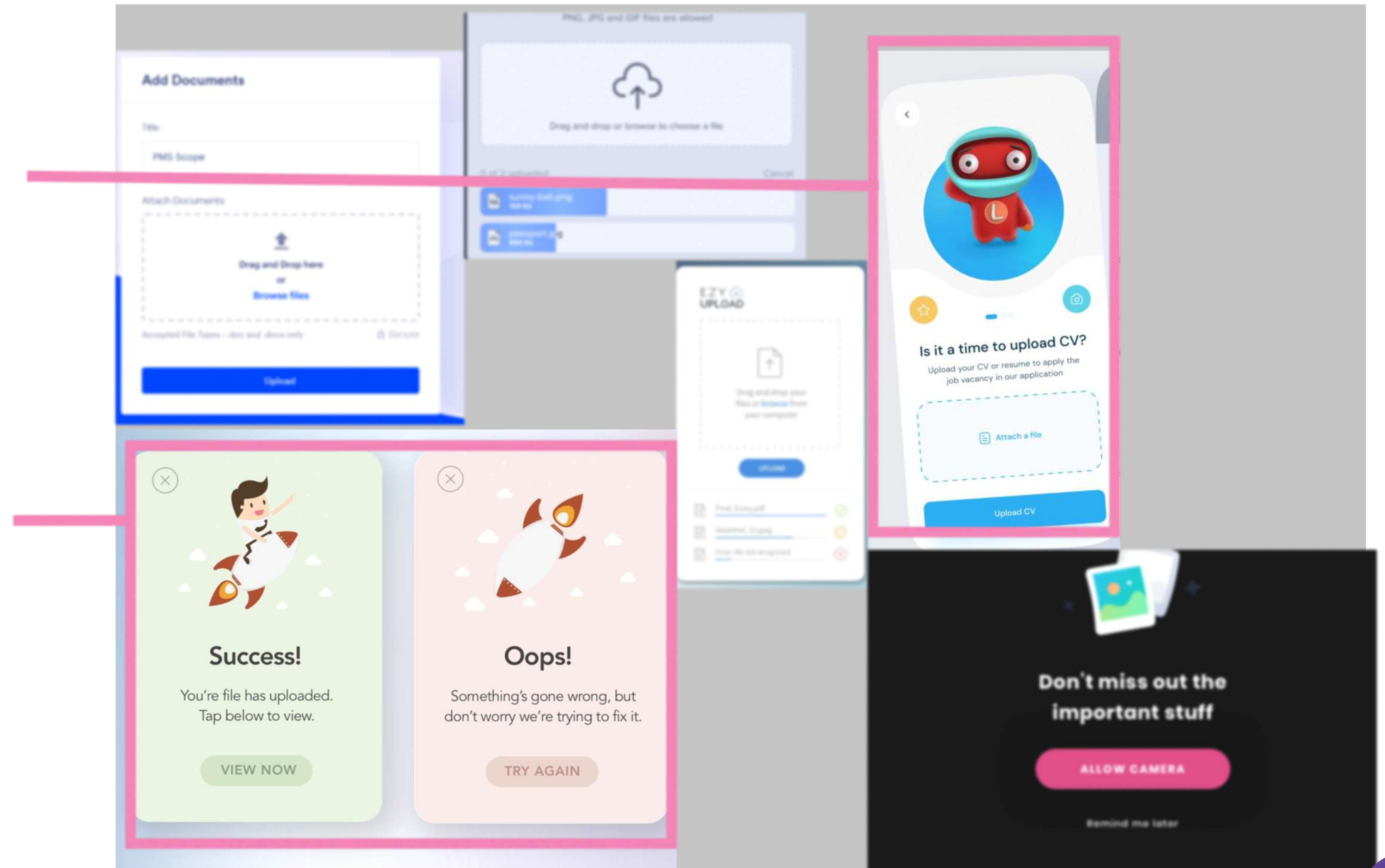
04 **Sketches**

Exploratory Sketches

Refined Sketches

Exploratory sketches

As our users are kids giving too much options for filtering the layout of the page can be confusing so having 2 main categories can keep it simple and useful at the same time

Exploratory sketches
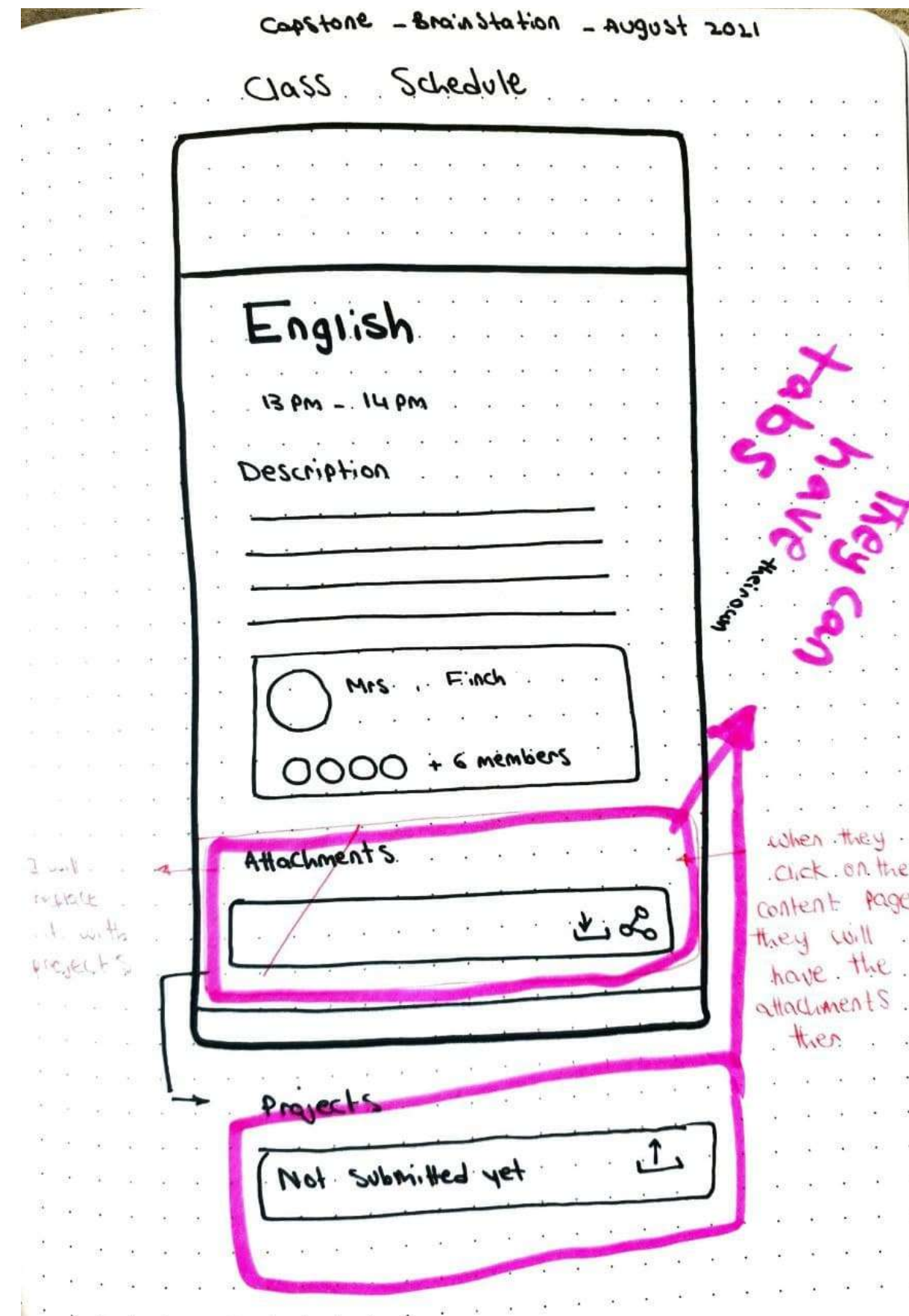
We want to have a page for describing the class content and containing teacher information and clasmmates in it.

As putting attachments and uploading projects in only one tab will make it too complicated I will break it up into 3 different tabs

Exploratory sketches

Having visuals is very important for kids so we are going to guide them through choosing content with showing big picture in addition to having description for each card
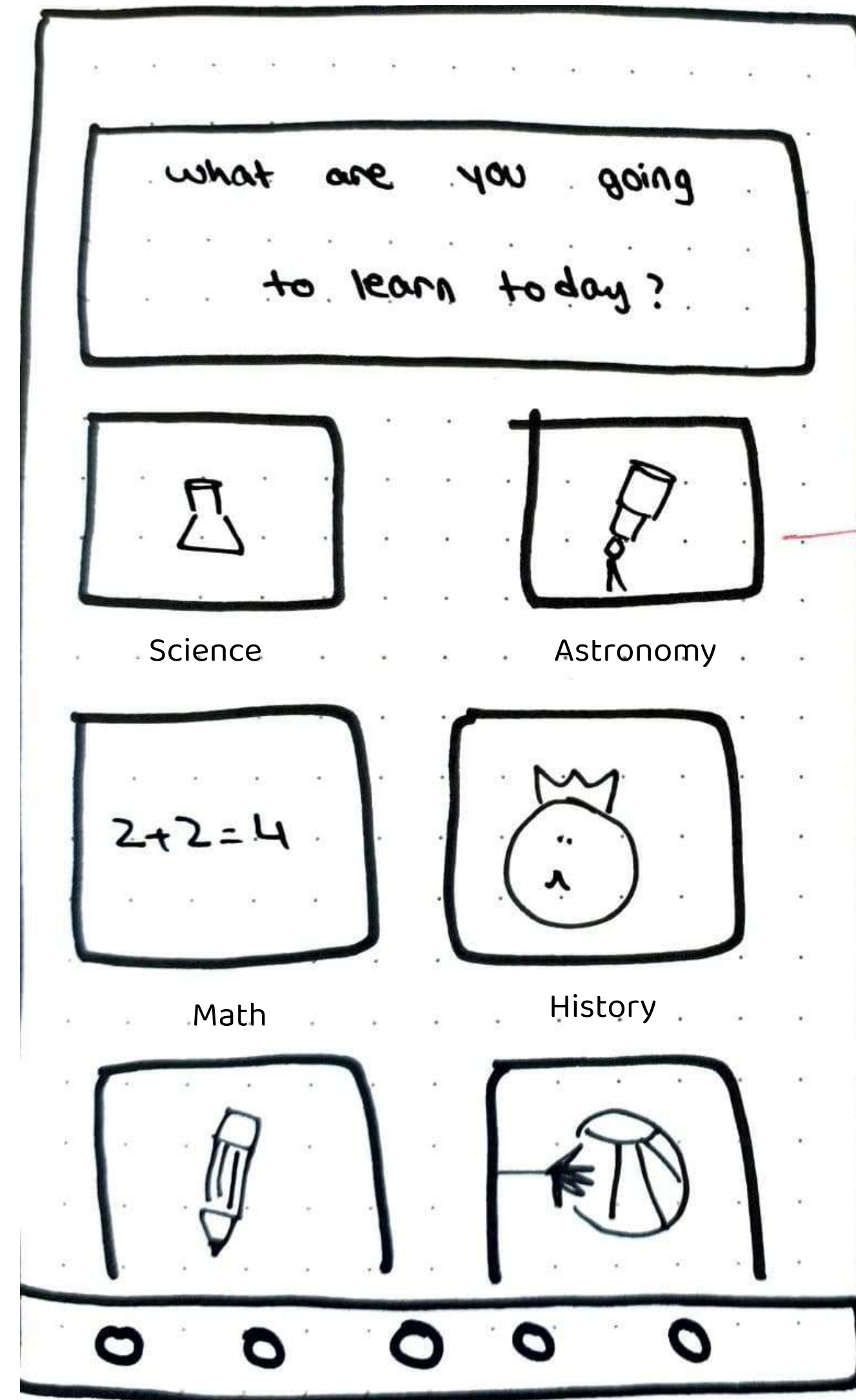
Flow 1 : Question Modal flow
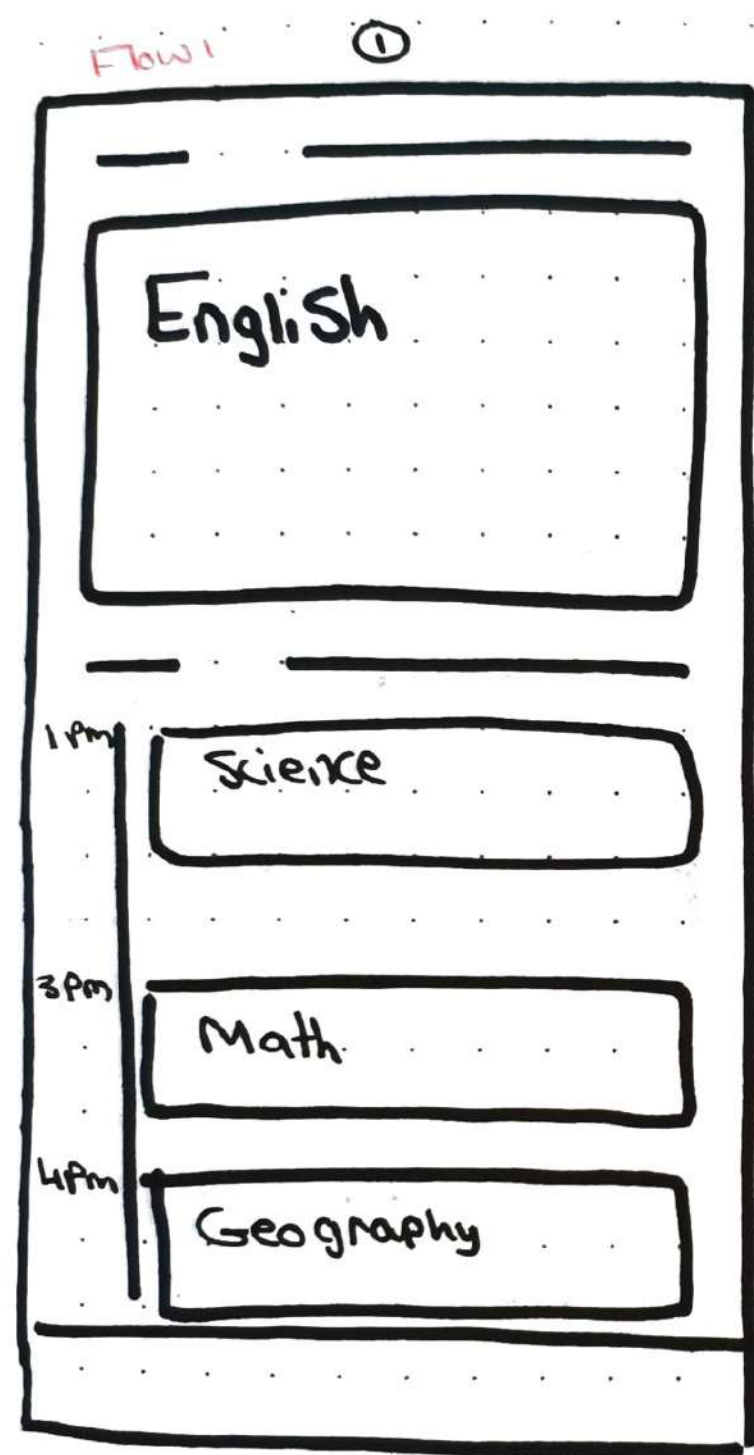
The first page is about showing today's schedule to the kids.
As soon as the class goes live, it's card become bigger and a join button will show up

The options for the video calling won't be there all the time.
Teacher can enable and disable each functionality like muting or screen sharing for each student whenever it is necessary.
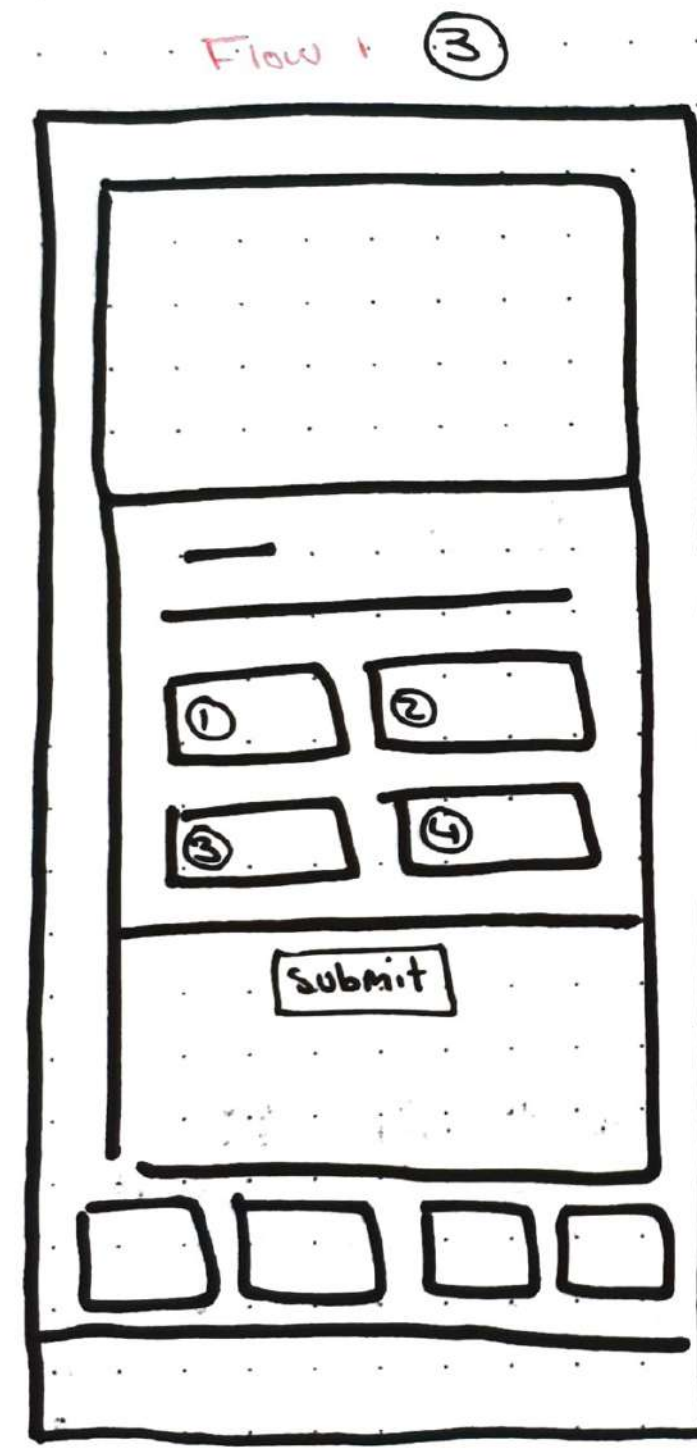
Teacher can ask any question in the middle of the class.
It will appear as a modal while students can hear their teacher. She will help them complete the quiz if necessary.

If they choose the right answer, we should be able to make them feel good about being right, with having a big, happy page with a positive sentence.

34

Flow 2 :Downloading Class content
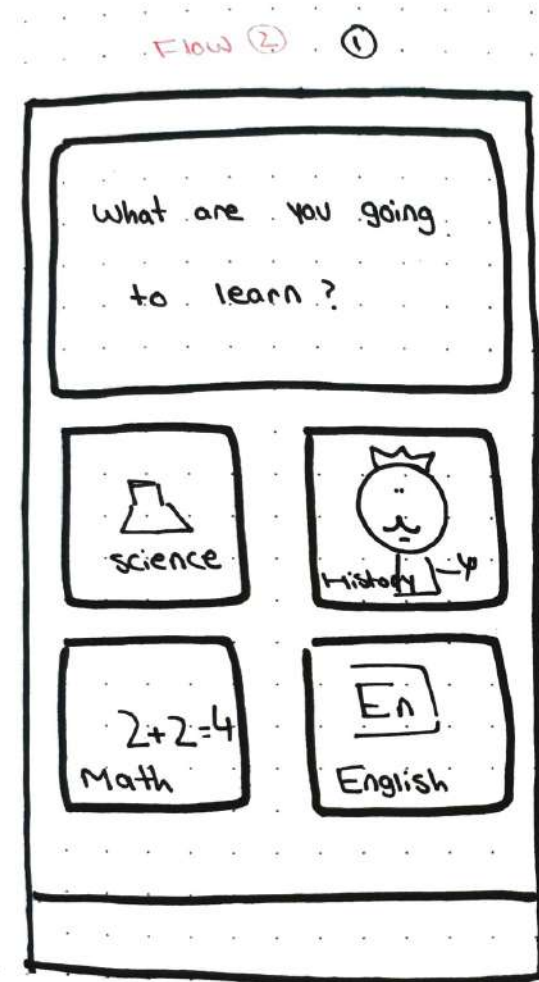
The cards should be big and clear.
Student can choose the topic that she/he wants to learn today.
Options depend on each student and the classes that he/she attends
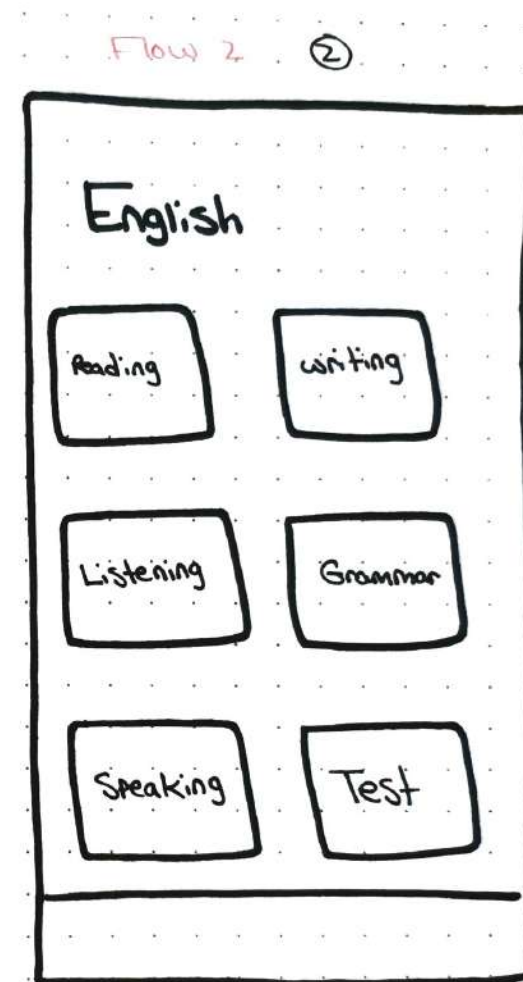
For each subject there will be sub-categories that help them organize the topic in their minds
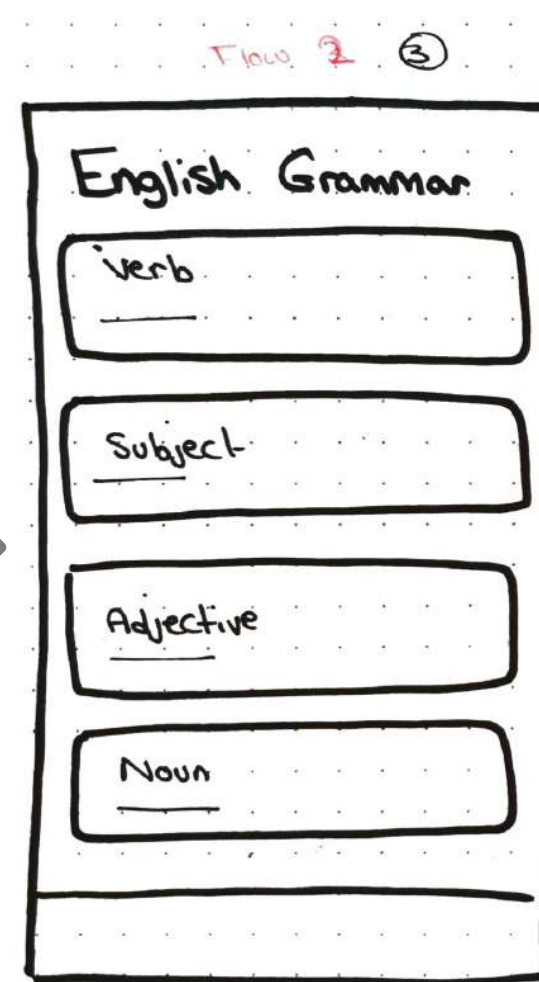
When they choose one category they will be able to see when each category has been thought.
So they can review the subject from the start or just revisit the last grammar in this example.

There will be a description for each topic and they can find the PDF or Slides of the subject in its page.
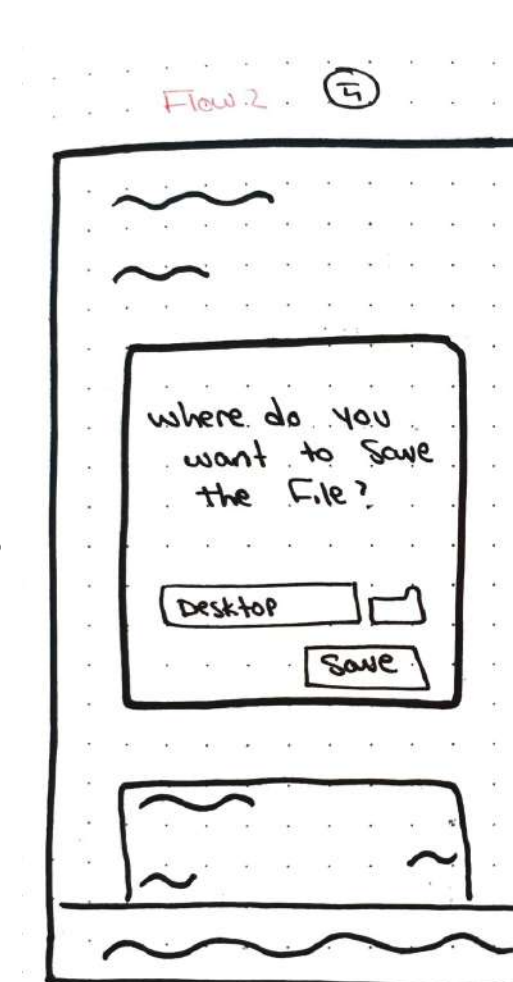
They can choose the place to save the document.
We won't let them loose the file!

We will blur the rest of the page to focus all the attention on the modal.
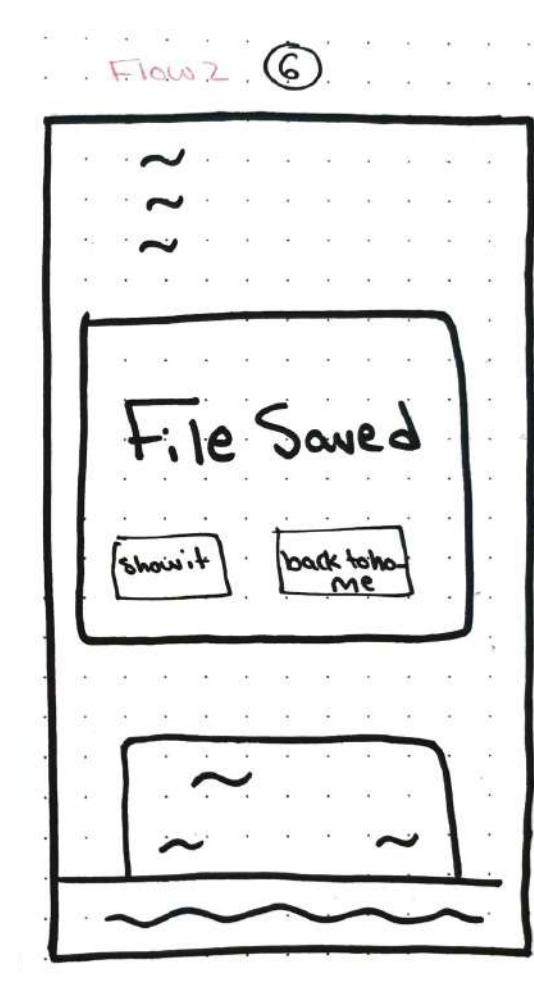
A big and clear confirmation page!

We will blur the rest of the page to focus all the attention on the modal.

Flow 3:Upload an assignment
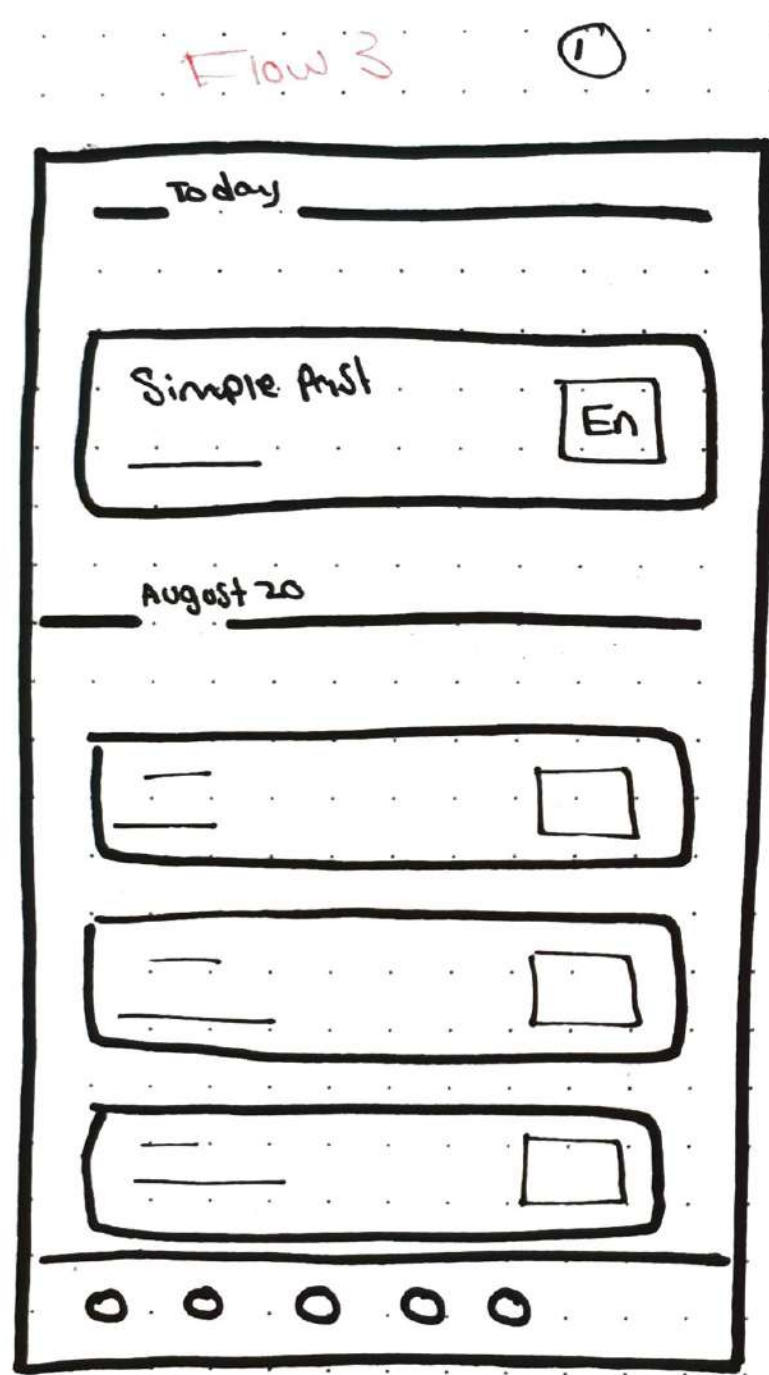
For uploading assignments it is important to organize them with their due dates.
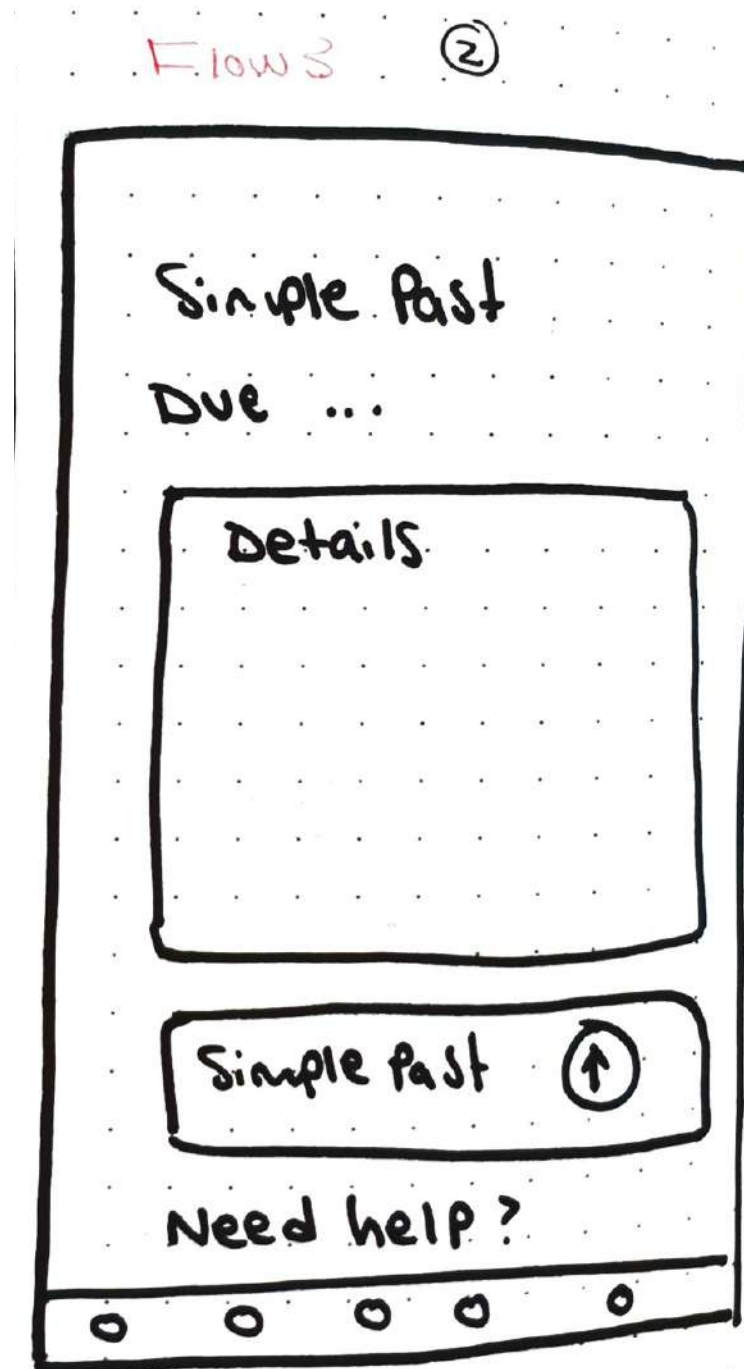
The discription page help them know what is their teacher's expectations. and When they tap on "Need help?" button they can message their teacher instantly
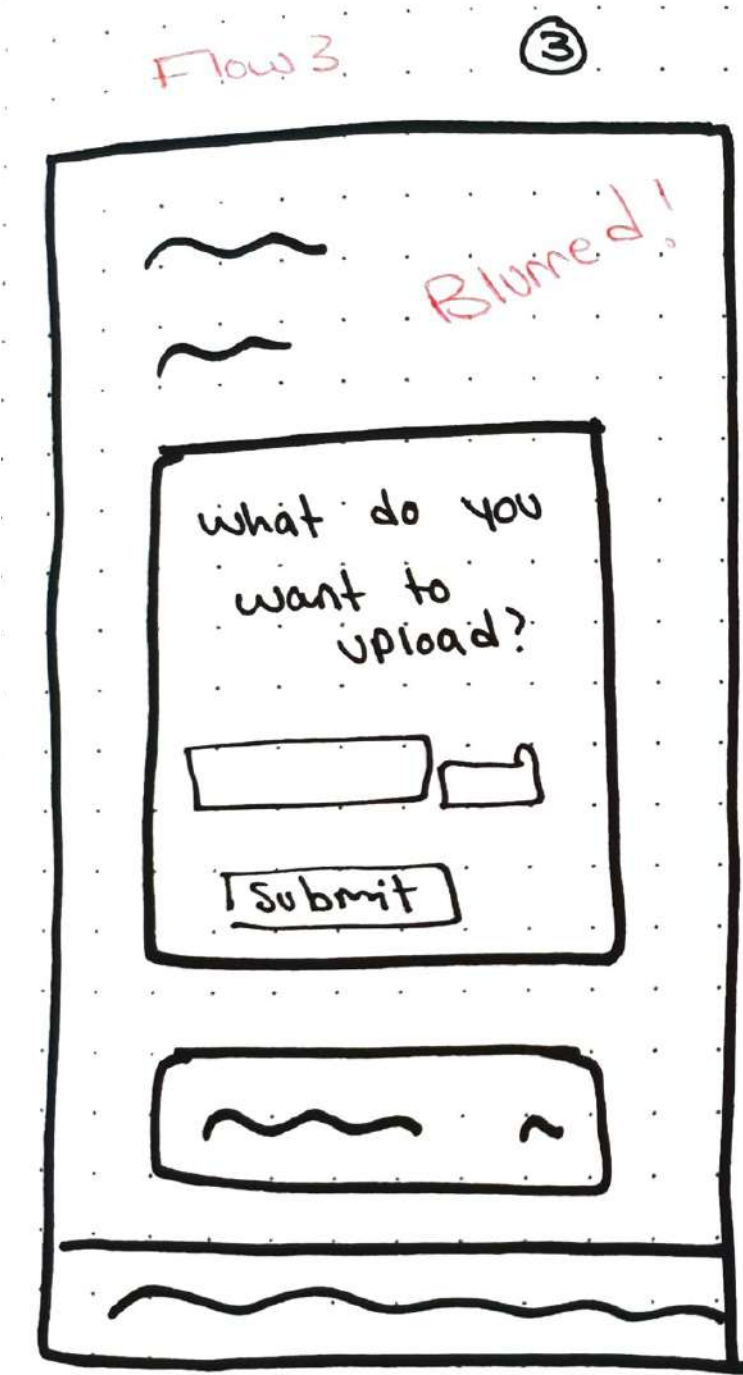
They have to upload their homework here We will blur the rest of the page to focus all the attention on the modal.
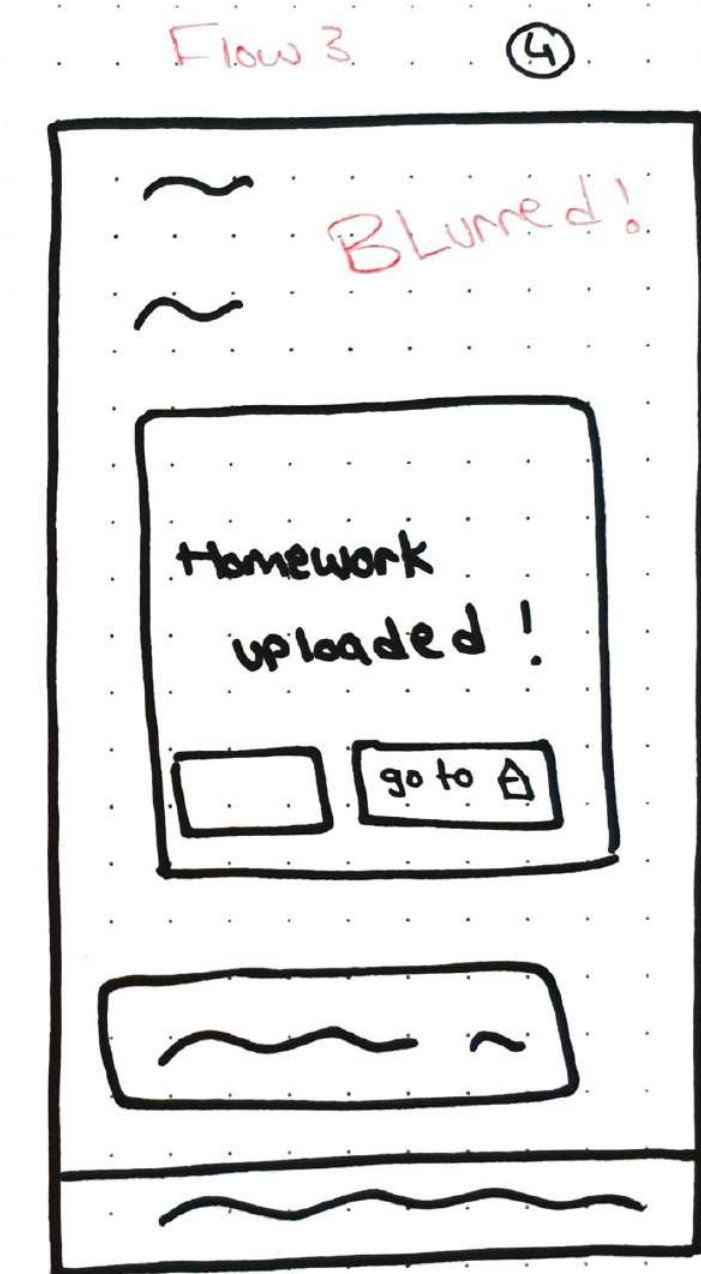
A big and clear confirmation page!

We will blur the rest of the page to focus all the attention on the modal.

05 Design Systems

Typography

Colours

Gradients

Buttons

Navigation Bar

WireFrame Colours

Atomic Design

Typography

Rounded fonts don't feature ornate serifs or complex letterforms, making them exceptionally easy to read for early learners. Baloo and Fredoka One manage to balance a rounded design with a stylish, minimal aesthetic.

H1 Head	**H1 Head**
H2 Headline	**H2 Headline**
H3 Headline	**H3 Headline**
H4 Headline	**H4 Headline**
H5 Headline	**H5 Headline**
H6 Headline	**H6 Headline**
Body 1	**Body 1**
Subtitle 2	
BUTTON	
Body 2	
Caption	
OVERLINE	

Colors

The effective use of color and graphics in children's media is one of the most important aspects of design to ensure that you deliver optimal content and a memorable user experience to young users.
Younger children, generally prefer bold, primary colors and high contrasts in graphic layouts that evoke exploration and discovery.
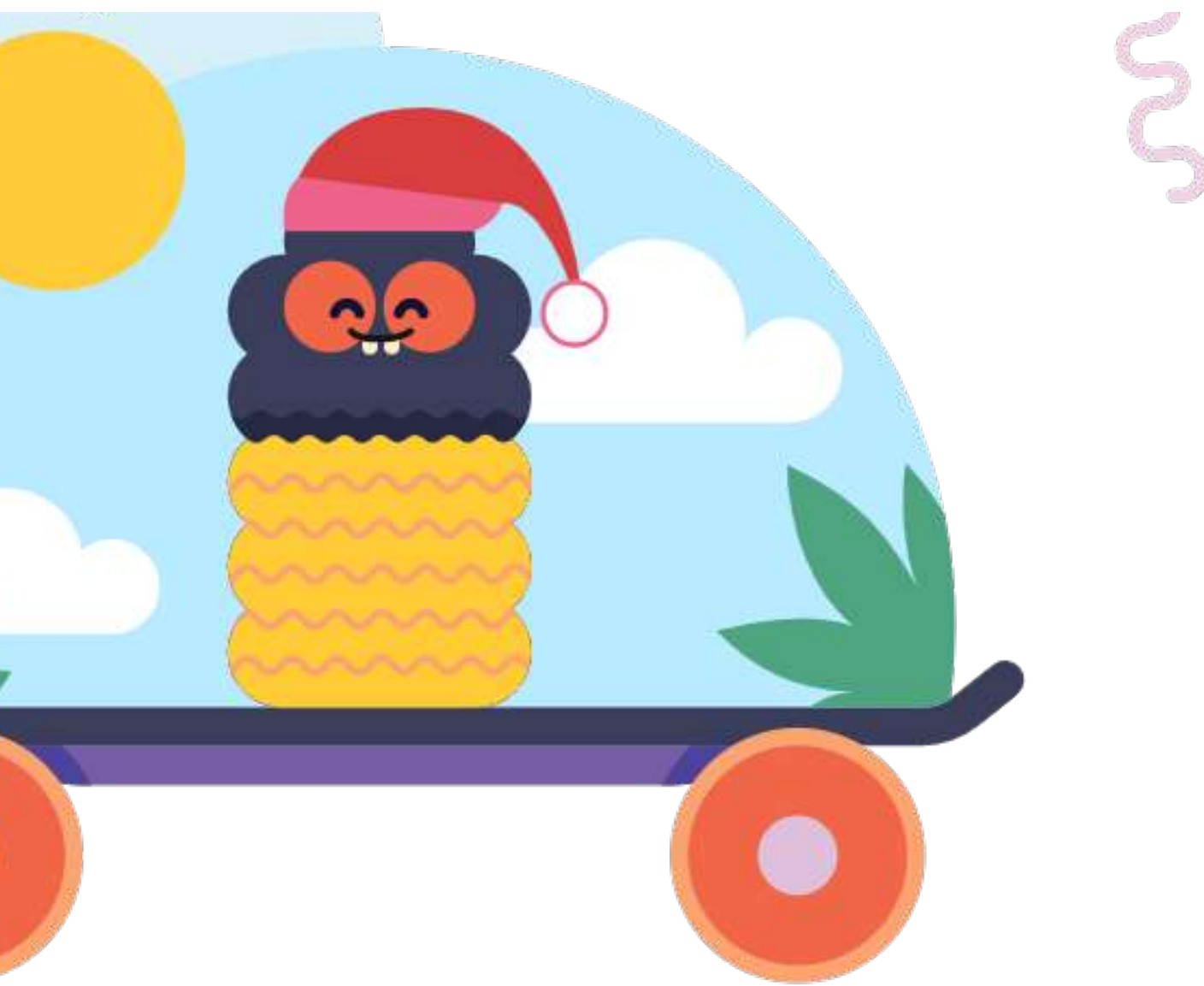
Colors & Elevation

9 shadows / 17 color styles

Gradients

A gradient creates visual interest and helps move users through a design. The eye will land on one area of color and the change between hues and light and dark areas helps shift focus across the screen. Gradients can be a highly useful and engaging design tool and add spark and intrigue to a multitude of projects.

Gradients
10 styles
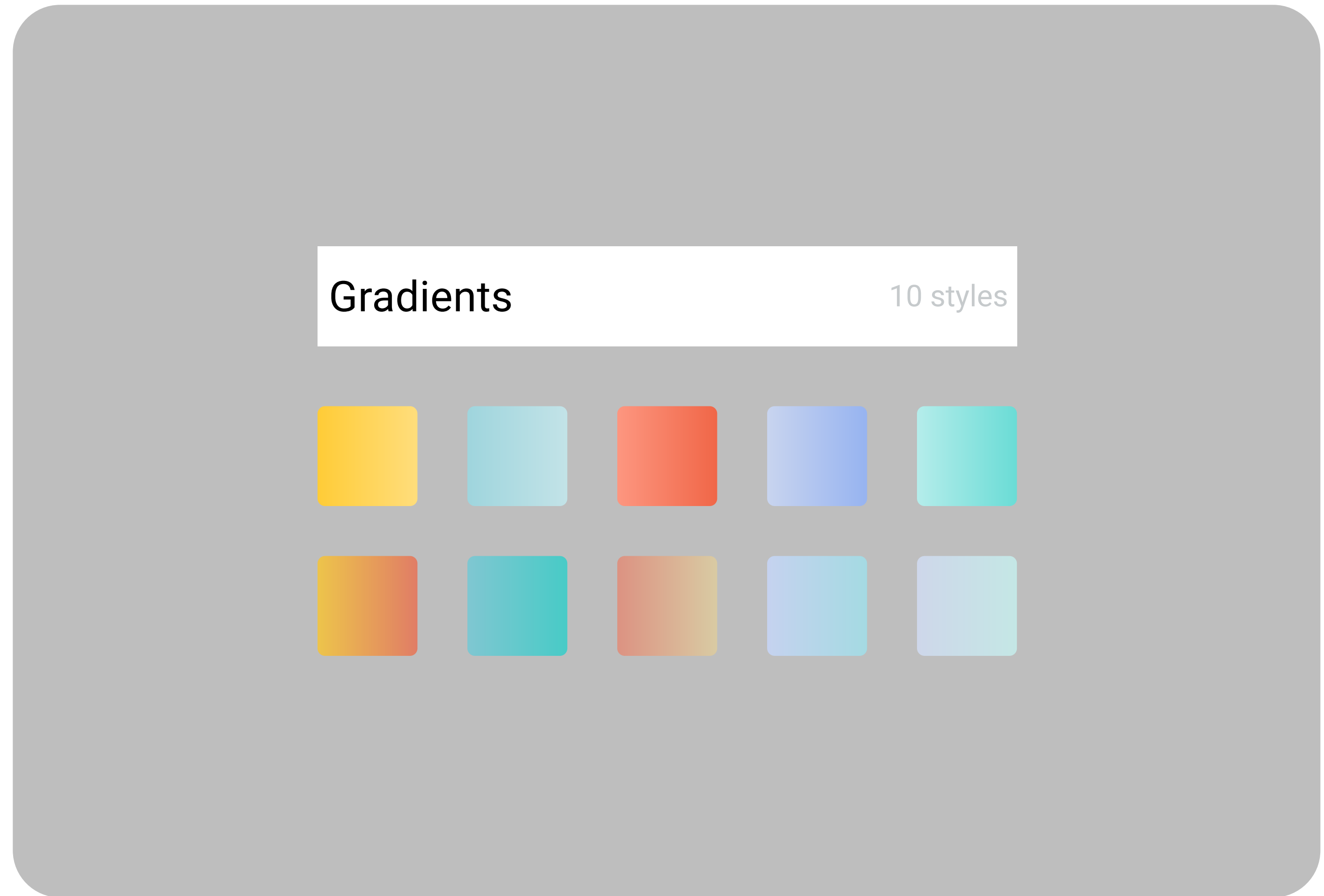
Buttons

As you are considering kids as your use you should design big, noticeable buttons for touchscreens to take advantage of young children's gross motor skills and support their limited fine motor skills. It was recommend at least 2cm × 2cm touch targets for young children (4 times bigger than the 1cm x 1cm recommended target size for adult users).

We want to communicate with children with colors too. So we tried to follow the general mantal model of children about green yellow and red.

BUTTON	SMOOTH	GHOST	RAISED	← PREVIOUS	BUTTON
WARNING	SMOOTH	GHOST	RAISED	⊘ WARNING	WARNING
POSITIVE	SMOOTH	GHOST	RAISED	✓ POSITIVE	POSITIVE
ATTENTION	SMOOTH	GHOST	RAISED	🔔 DODONG	DODONG

Navigation bar

ITEM 1   ITEM 2   ITEM 3

ITEM 1   ITEM 2   ITEM 3

ITEM 1   ITEM 2   ITEM 3

ITEM 1   ITEM 2

ITEM 1   ITEM 2
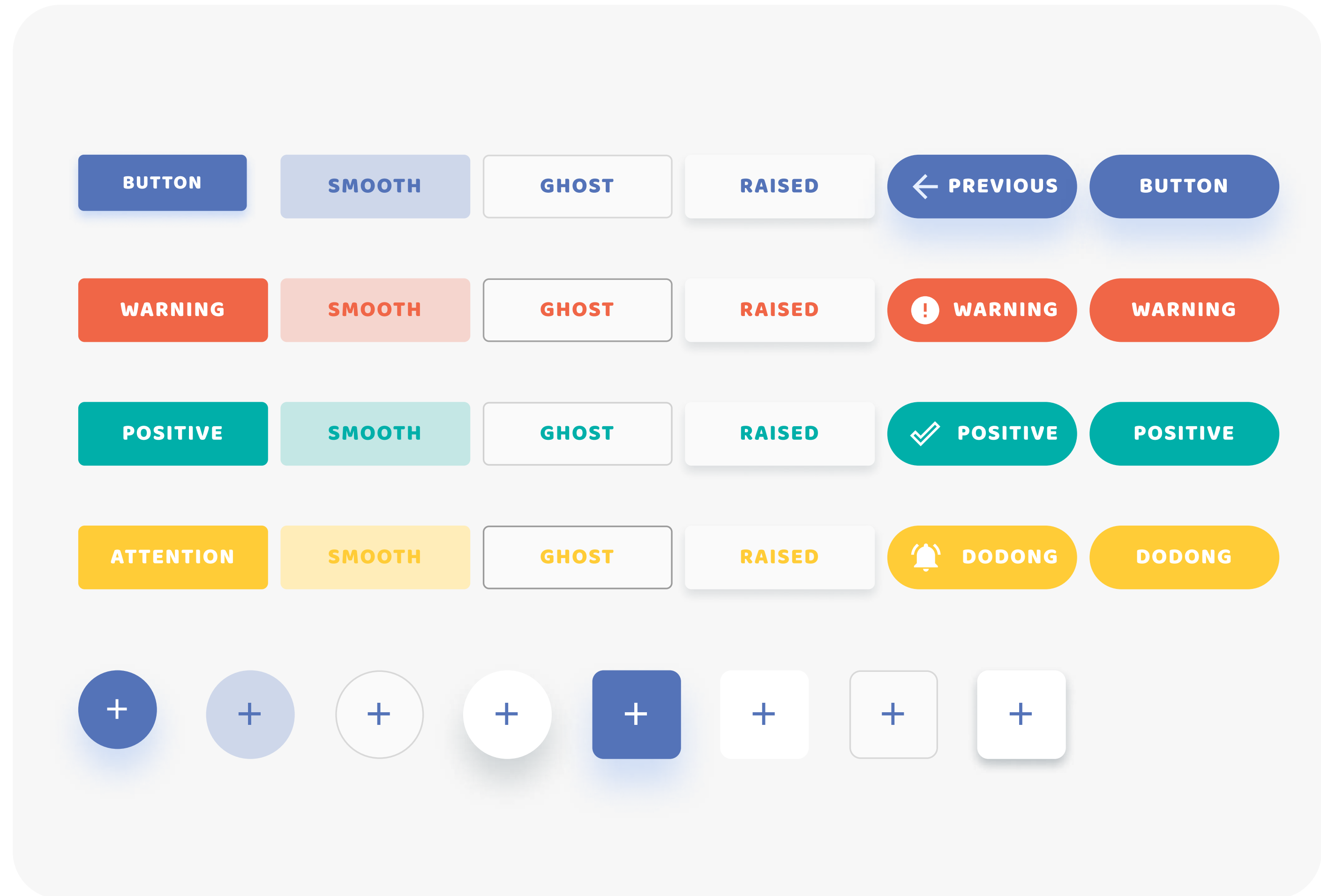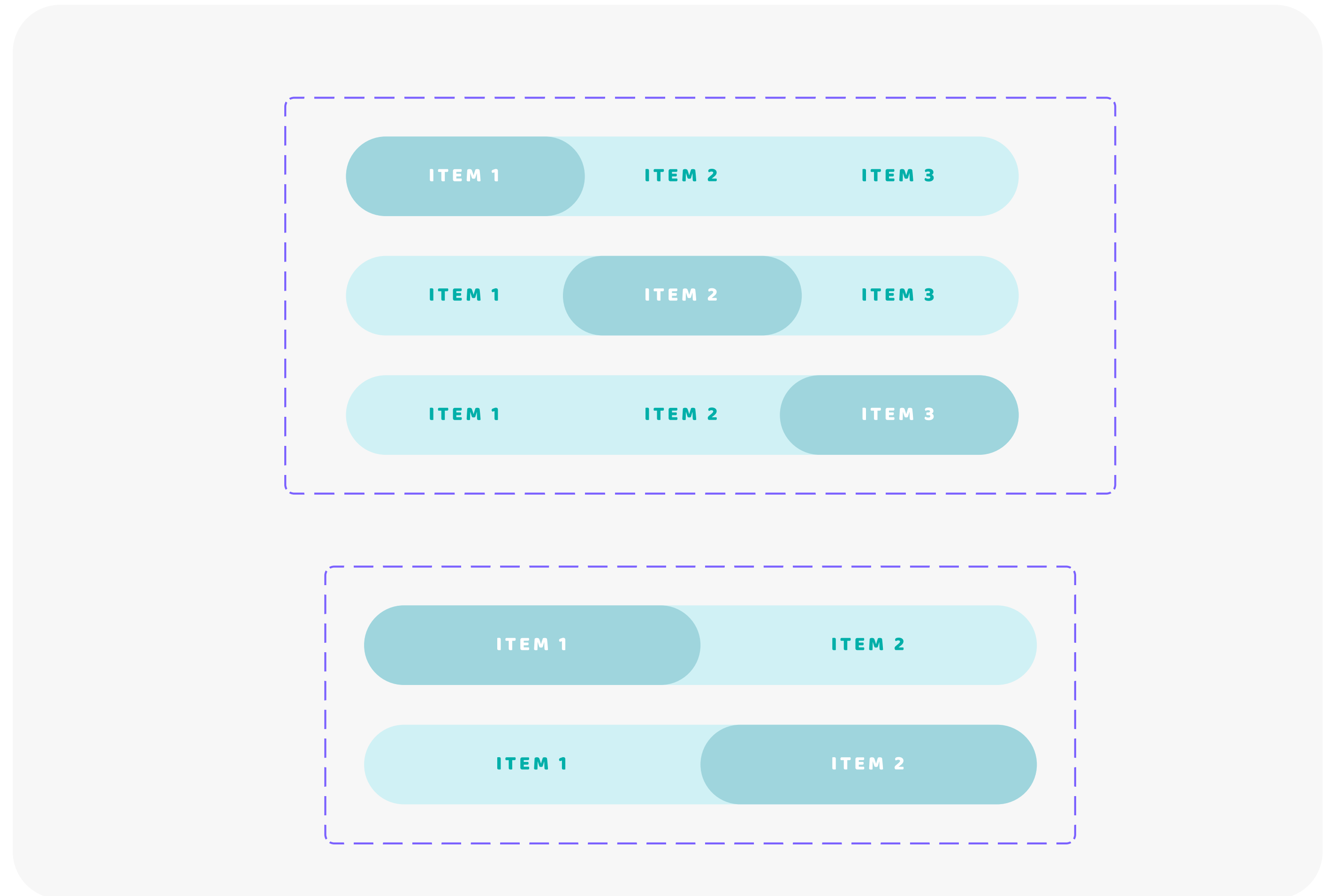
Wireframe colors

When you put different shades and colors on your wireframes, viewers get hung up about how each element will look. Even if you tell them the style isn't permanent, they still can't avoid it because it's a natural reaction to what they see. You want them to think about style in the graphics stage, not wireframing. Important questions about site structure and strategy need to get answered first. Wireframe styles make this harder to do. Colors, shapes, fonts and images cloud the vision you're trying to communicate. This can lead to your team making wrong decisions that could have a lasting impact on the site.

So we are going to use different shades of gray in our wireframe. As the shade becomes darker it indicates the color in the application going to be brighter.
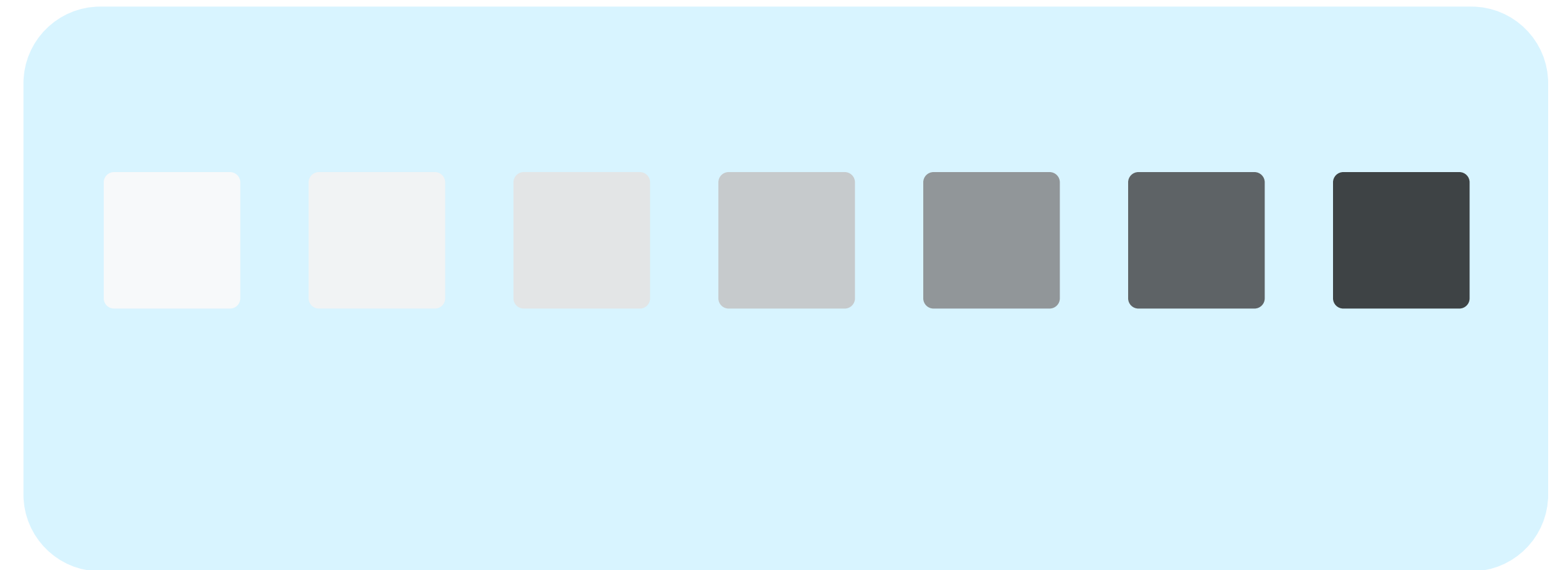
Atoms into much more...
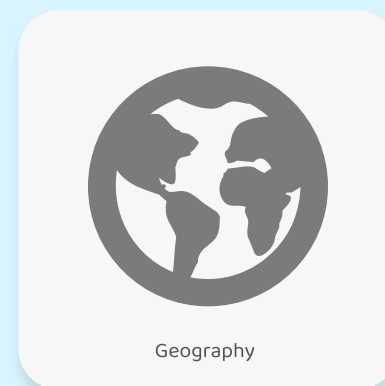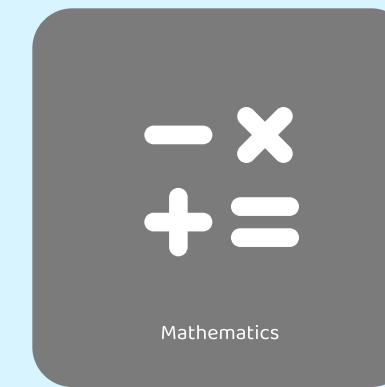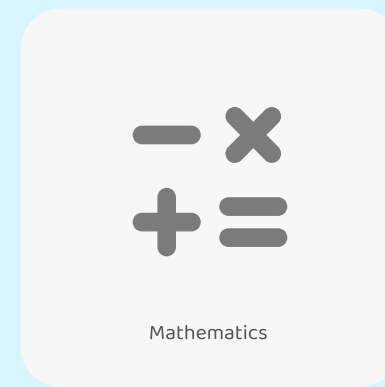
For making our design consistent (and easy!)
We have to break each page to smaller parts
Making each component before making the
whole page help us think of our user
interfaces as both a cohesive whole and a
collection of parts at the same time.
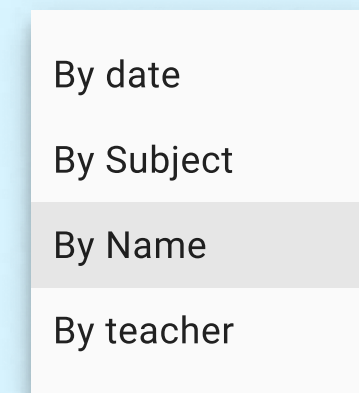These are active and inactive states of
subjects.

Content	Video	**Notes**

Content	**My Notes**	The Screen Recording

Content	My Notes	The Screen Recording
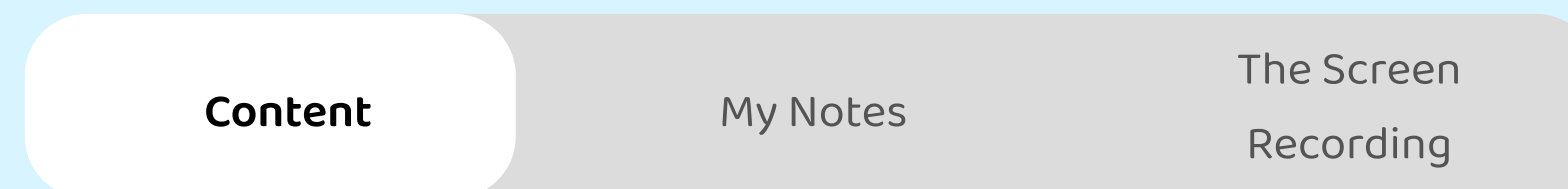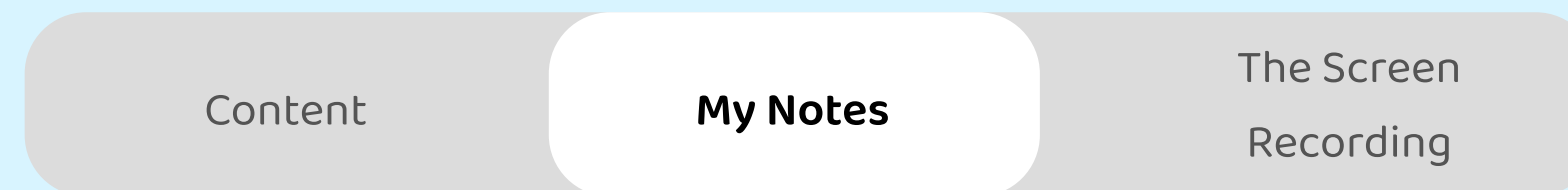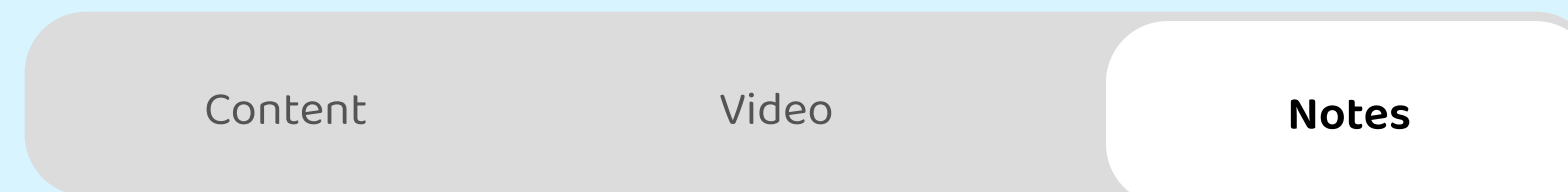
Making variants of the same component
before designing a page make the design
easier to understand.
The component has the same layout in every
page and help students know what to
expect in each page

Organisms into much more...

All Assignments | **Upcoming Assignments**

All Assignments | Upcoming Assignments

By date | **By Subject**

By date | By Subject
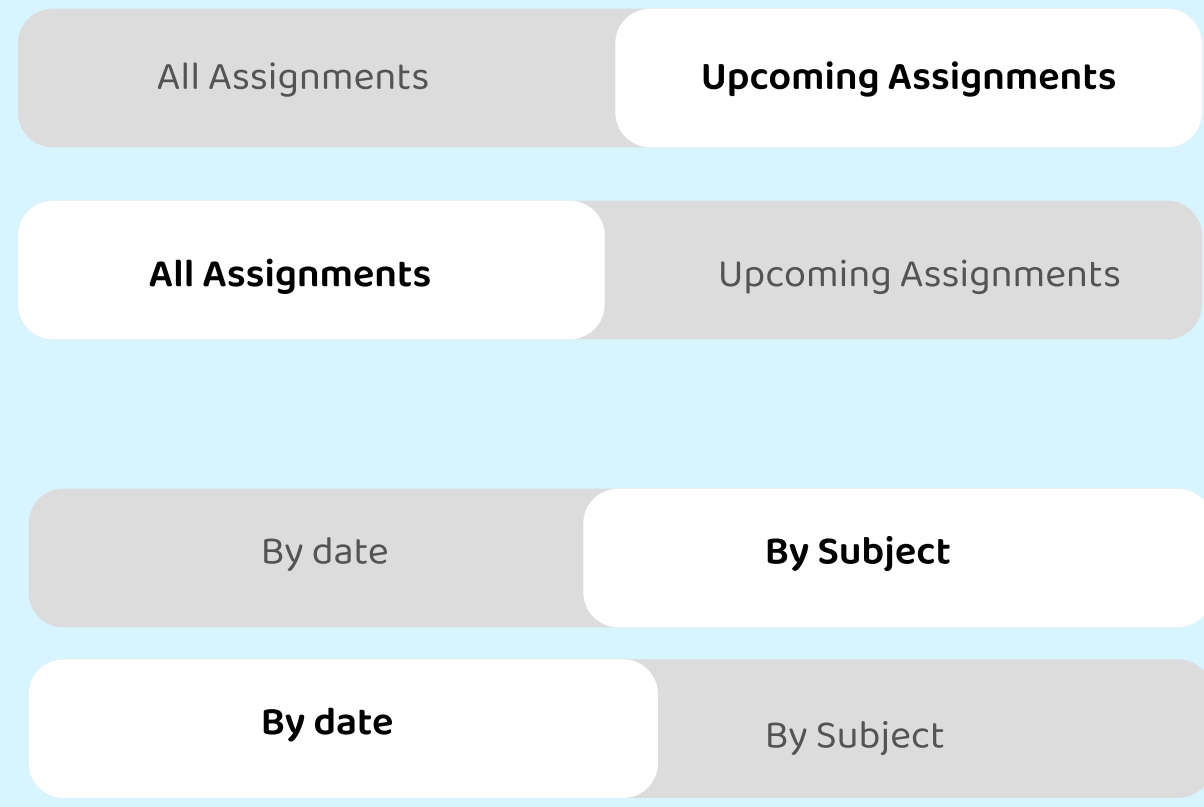
Although grownups are so used to seeing page sort like this:

By date
By Subject
By Name
By teacher

But children don't have the same mental model. So instead of the dropdown menu we want to show them all the available options
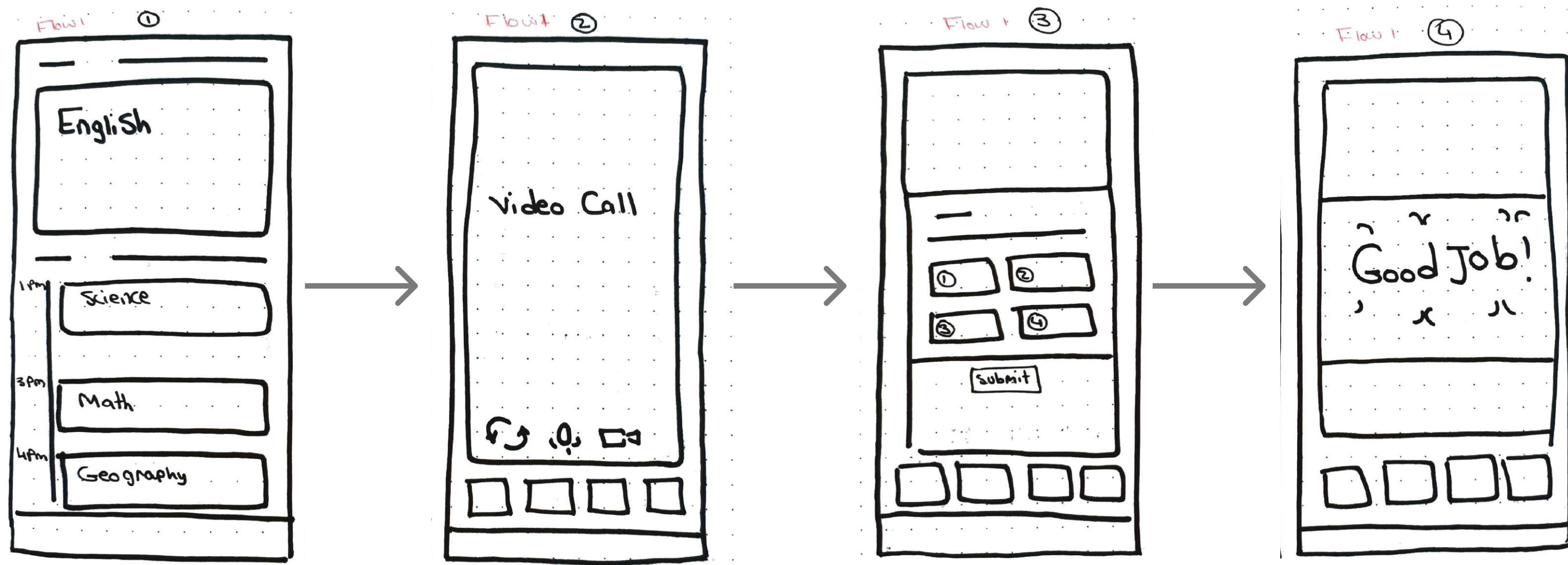
Break Time | Content | Homepage | Assignments | My Account
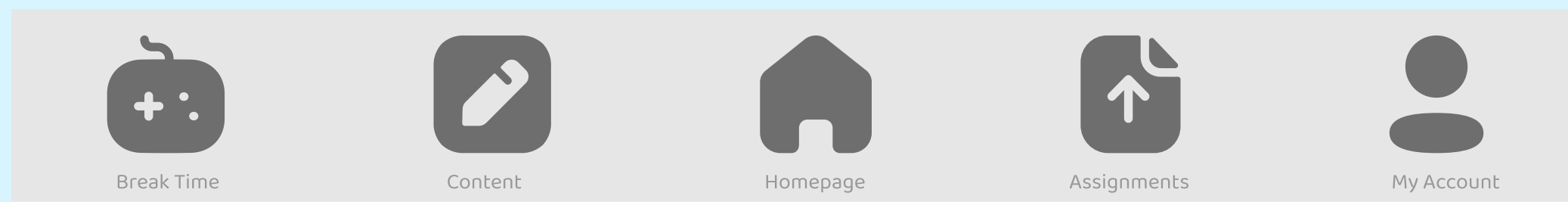
I tried to choose an easy to understand icon for the navigation bar, But without the description any icon might be new for our user.
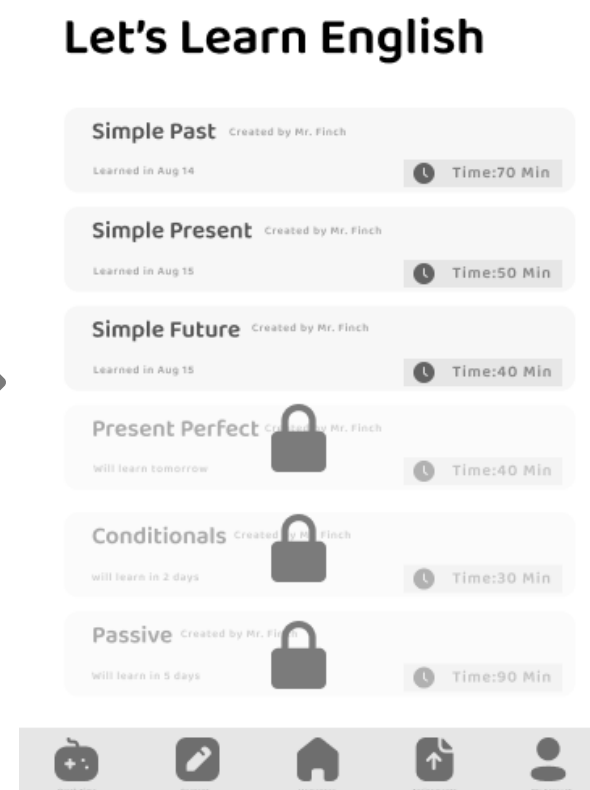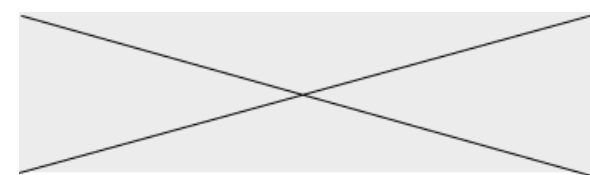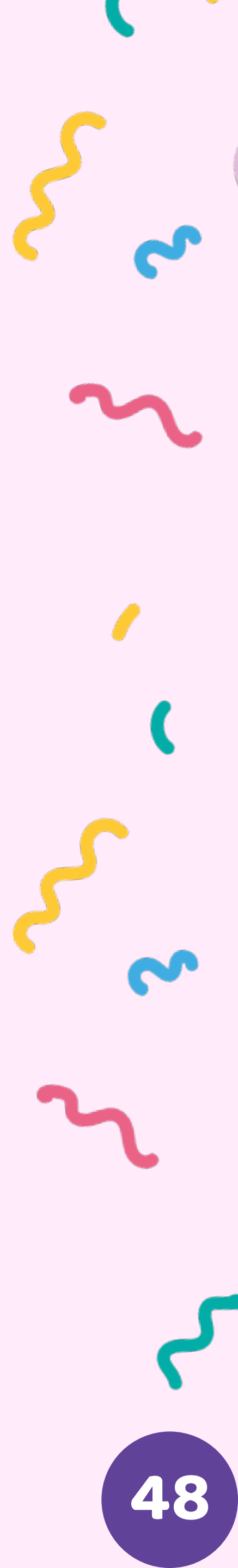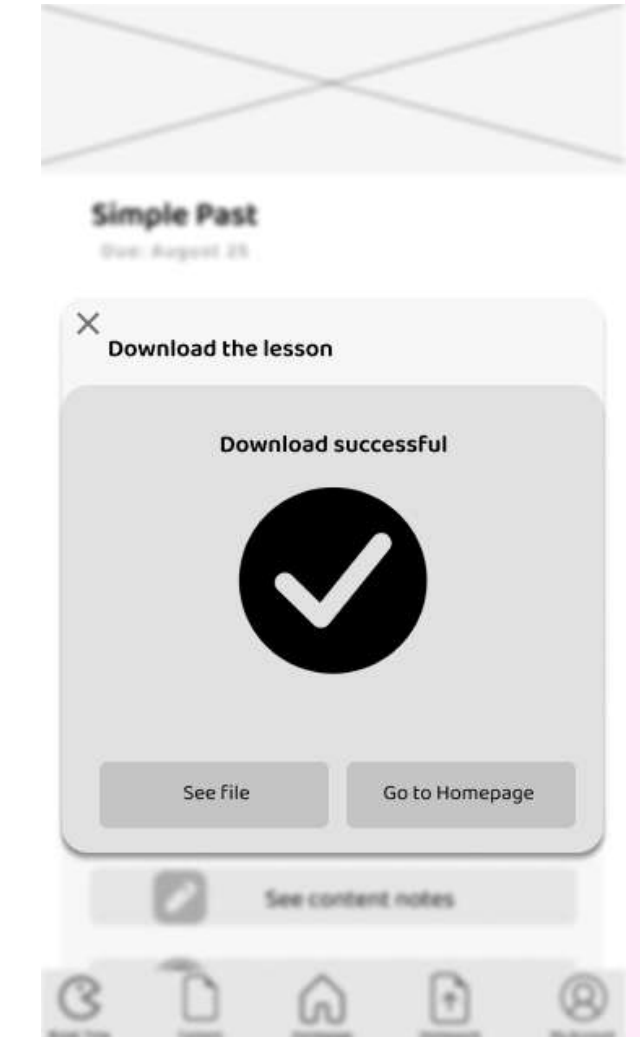
06 Wireframe

From Notebook to Wireframe

From Notebook To Wireframe

47

From Notebook To Wireframe

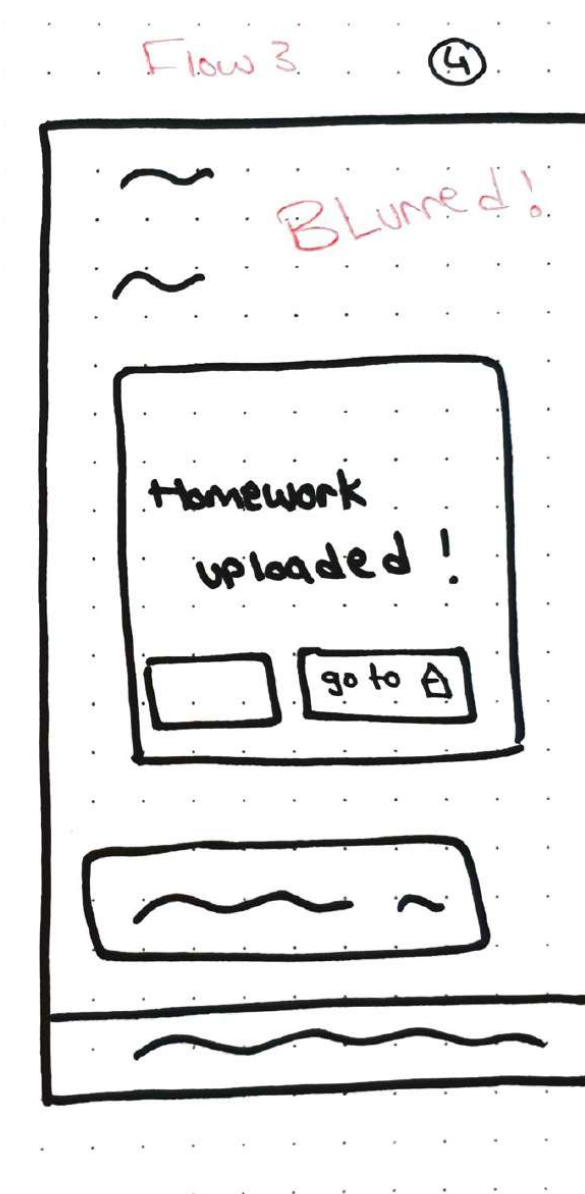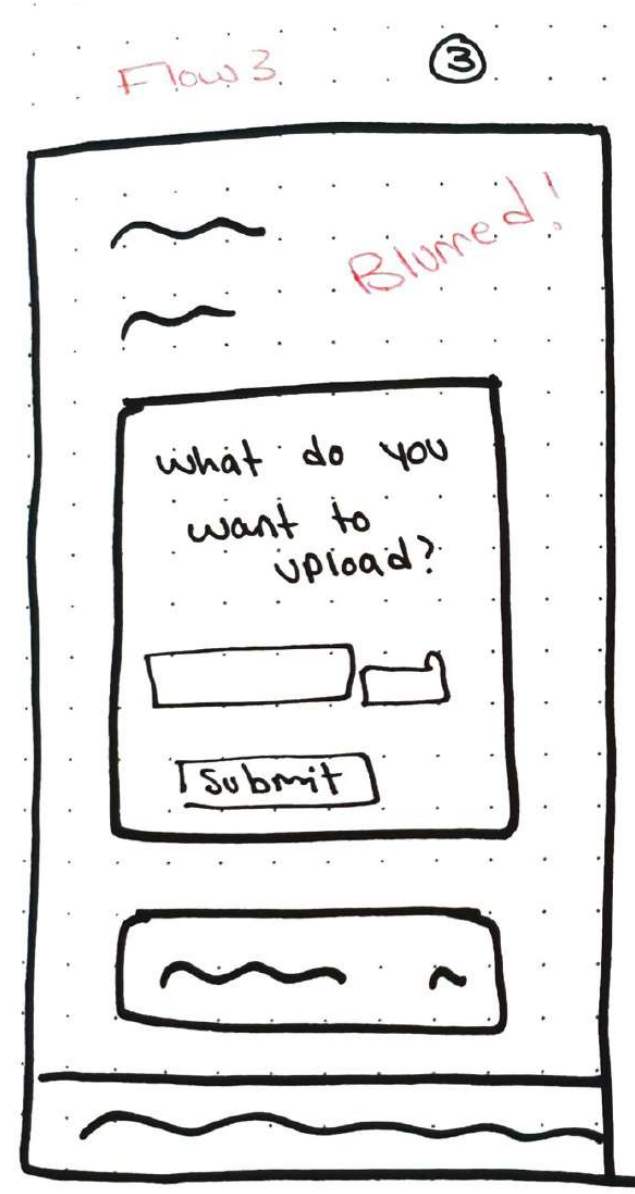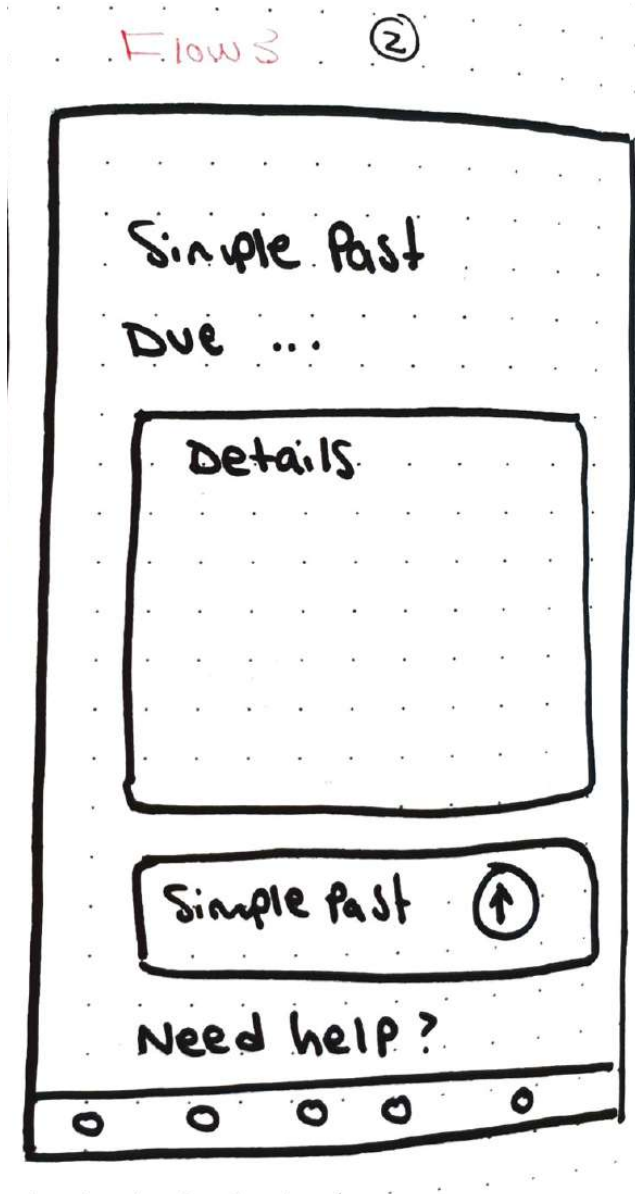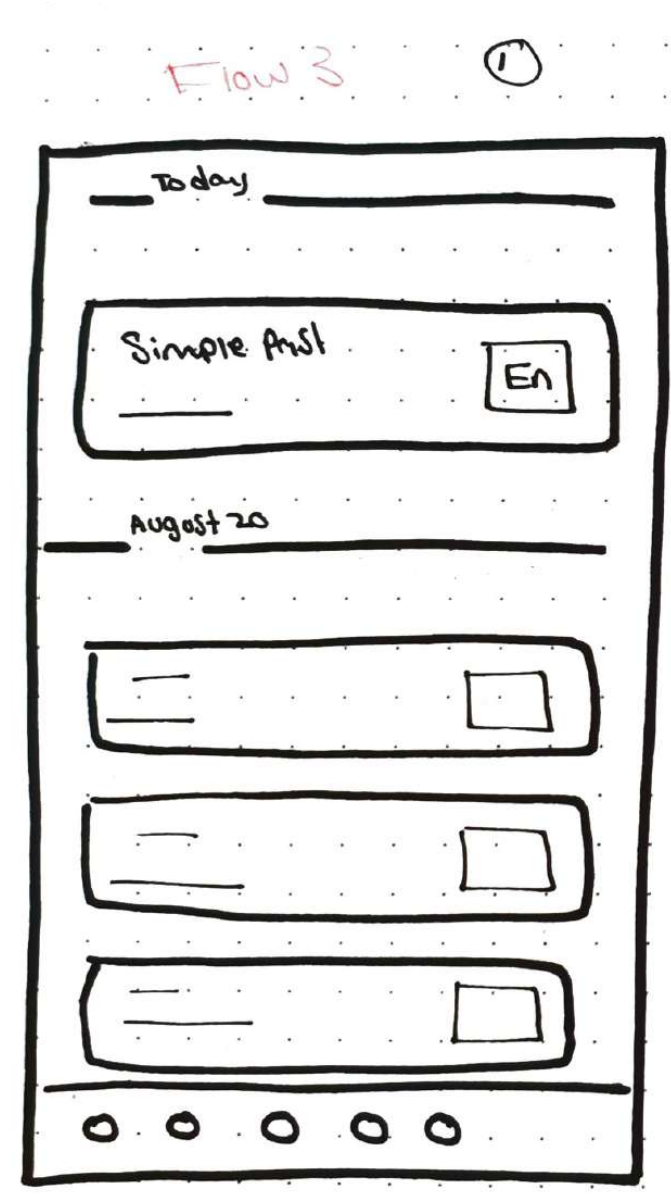**What are you going to learn today?**
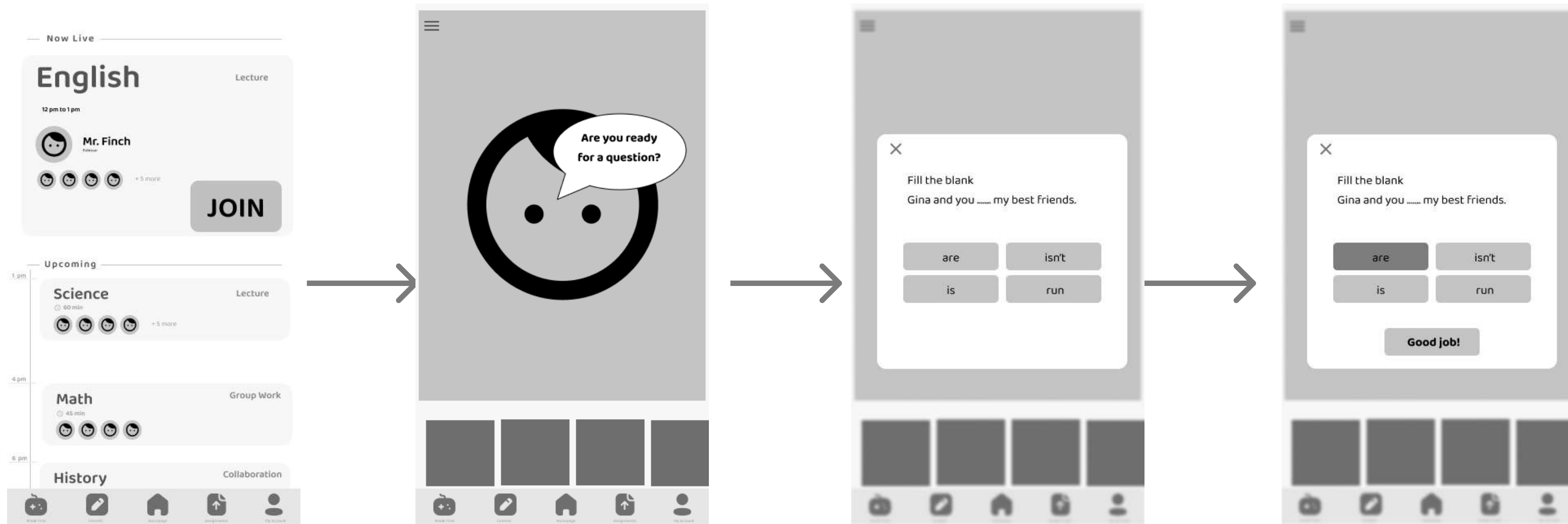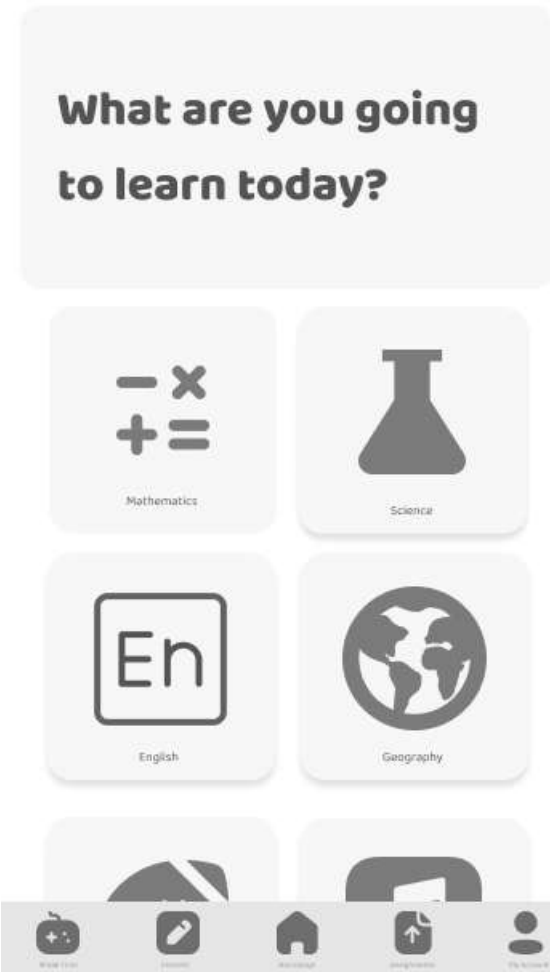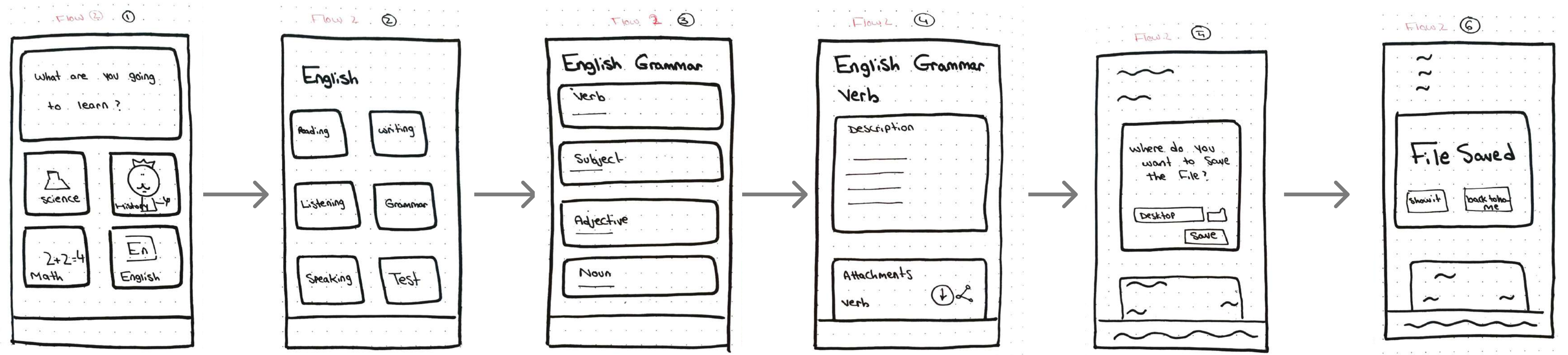
We don't want to confuse students with a lot of options.
We want to keep the flow simple.
Using a lot of sub-categories may hide the main topic under it. So I didn't include this page in my main wireframe.

Let's Learn English

Simple Past	Created by Mr. Finch	
Learned in Aug 14		⏱ Time:70 Min
Simple Present	Created by Mr. Finch	
Learned in Aug 15		⏱ Time:50 Min
Simple Future	Created by Mr. Finch	
Learned in Aug 15		⏱ Time:40 Min
Present Perfect	Created by Mr. Finch	🔒
will learn tomorrow		⏱ Time:40 Min
Conditionals	Created by Mr. Finch	🔒
will learn in 2 days		⏱ Time:30 Min
Passive	Created by Mr. Finch	🔒
will learn in 3 days		⏱ Time:90 Min

See the material:

Content | My Notes | The Screen Recording

Description

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged.

Attachements

Simple Present-Subject pronoun I
August 20

Simple Present-Subject pronoun You
August 22

No More selecting the download folder. Students can find the downloaded document in the download folder OR tap on see file when download is complete.

Simple Past
Date: August 25
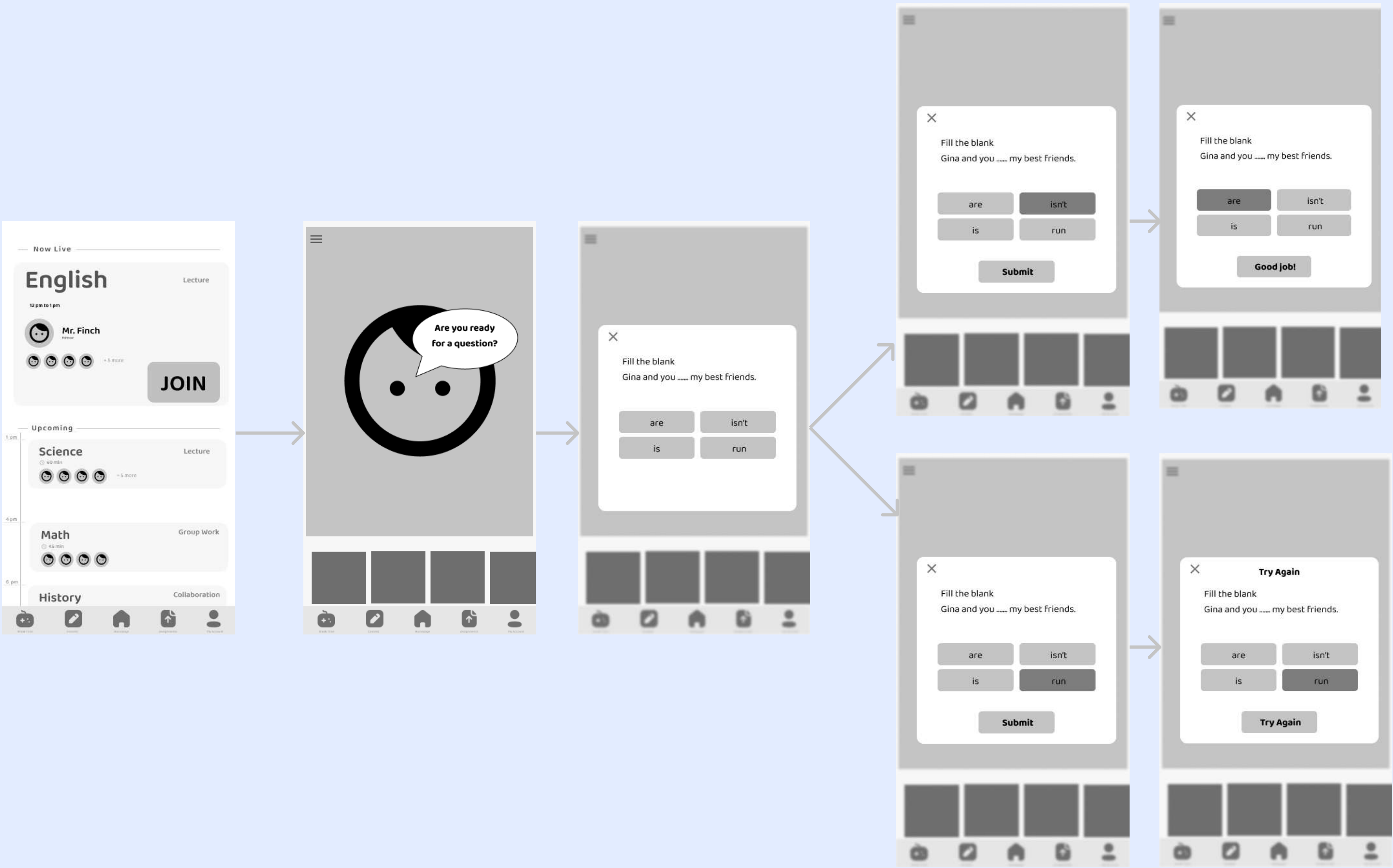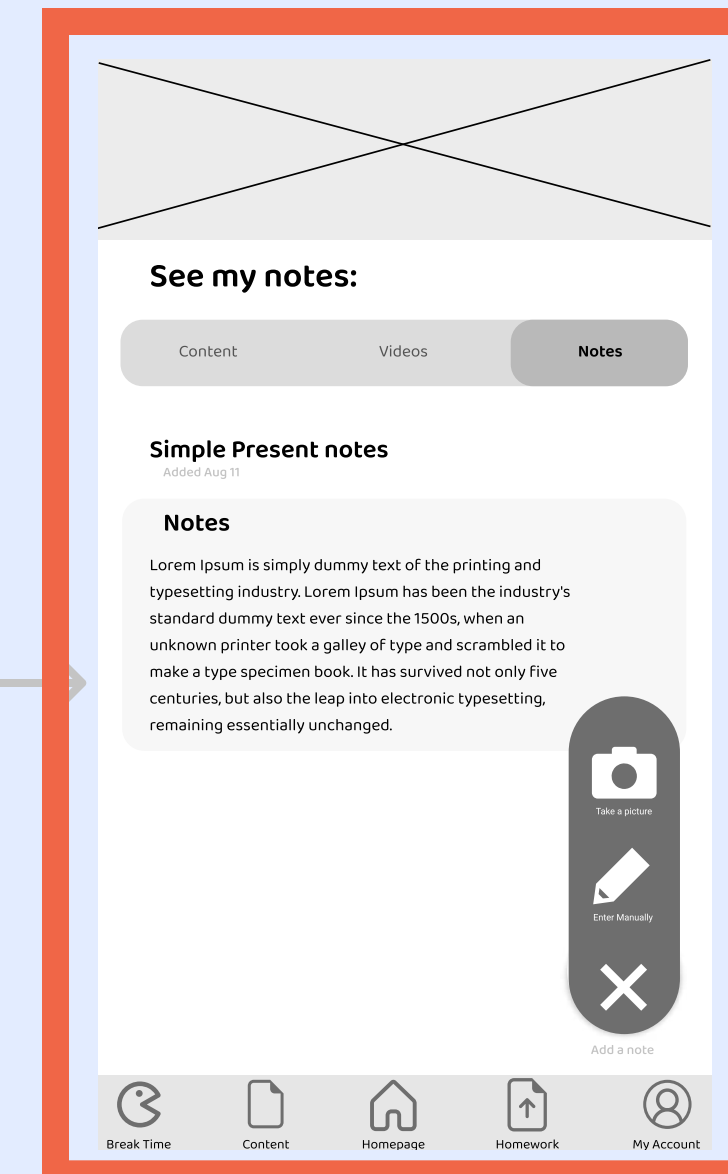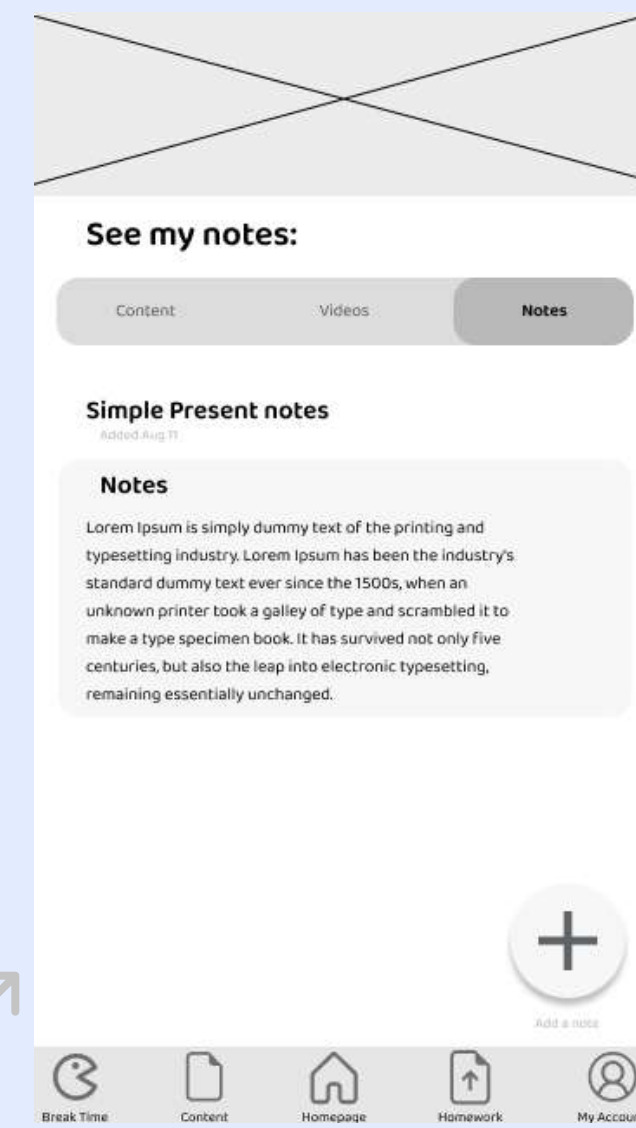
Download the lesson

Download successful
✓

See file | Go to Homepage
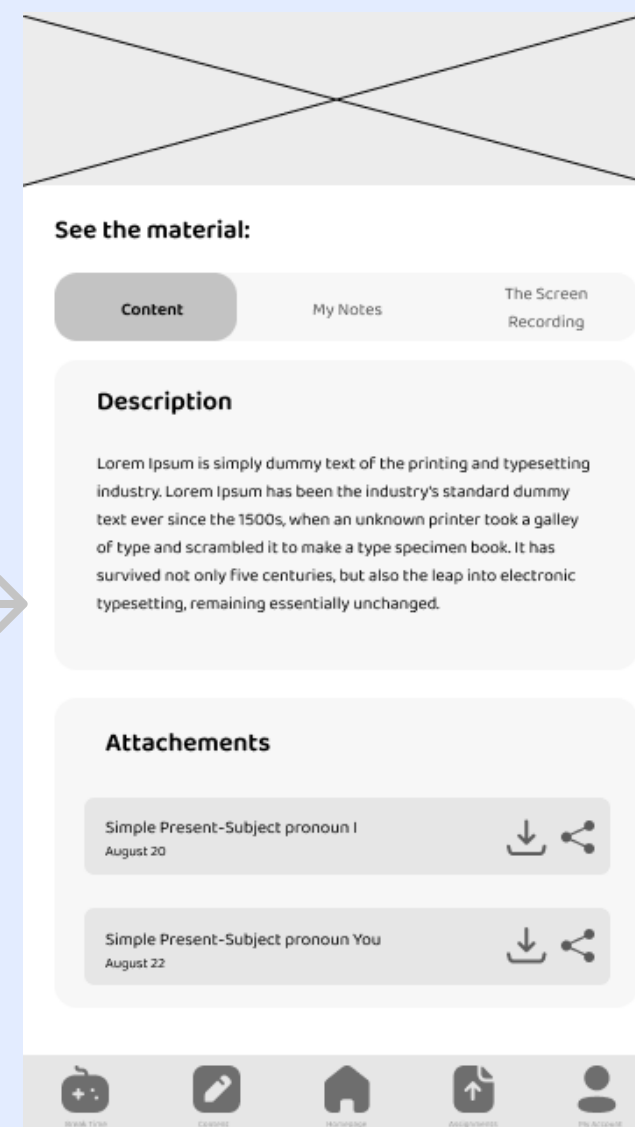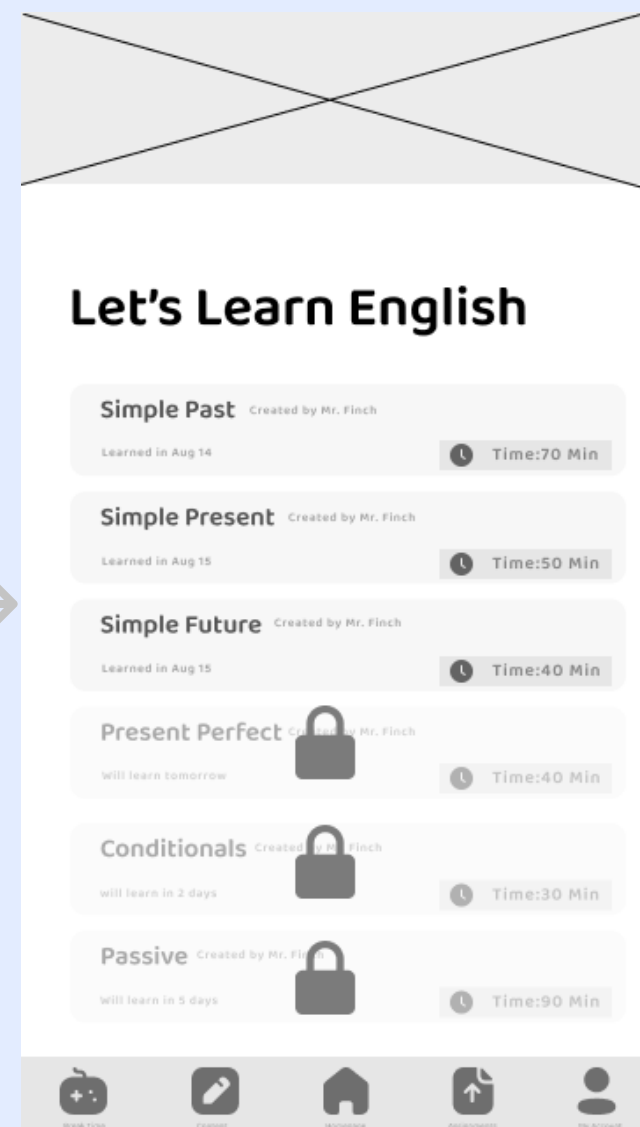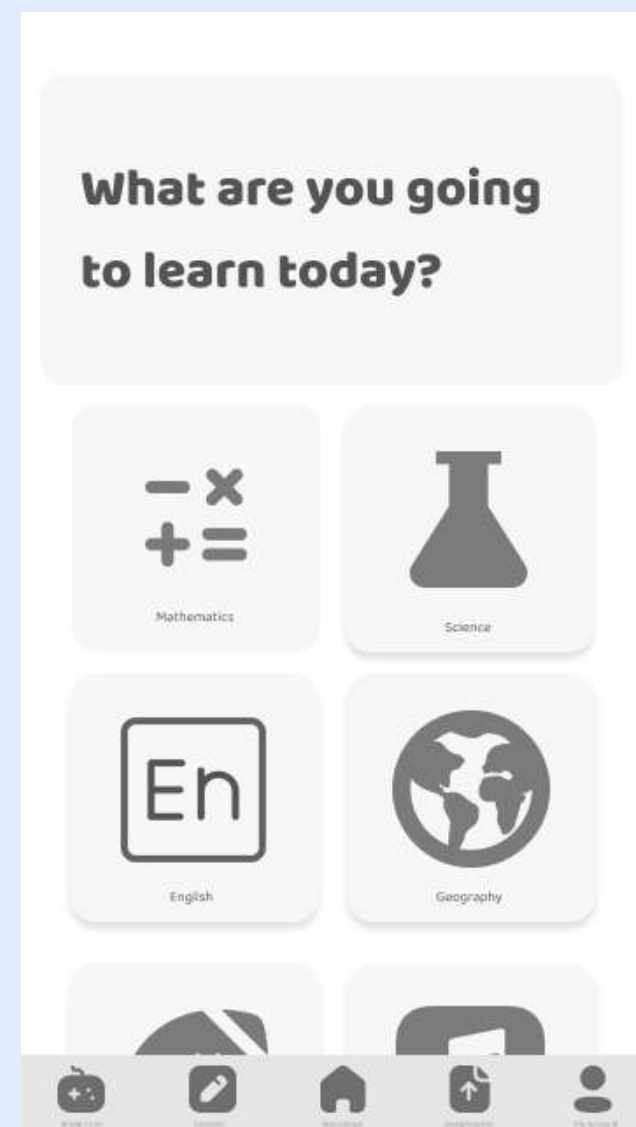
See content notes
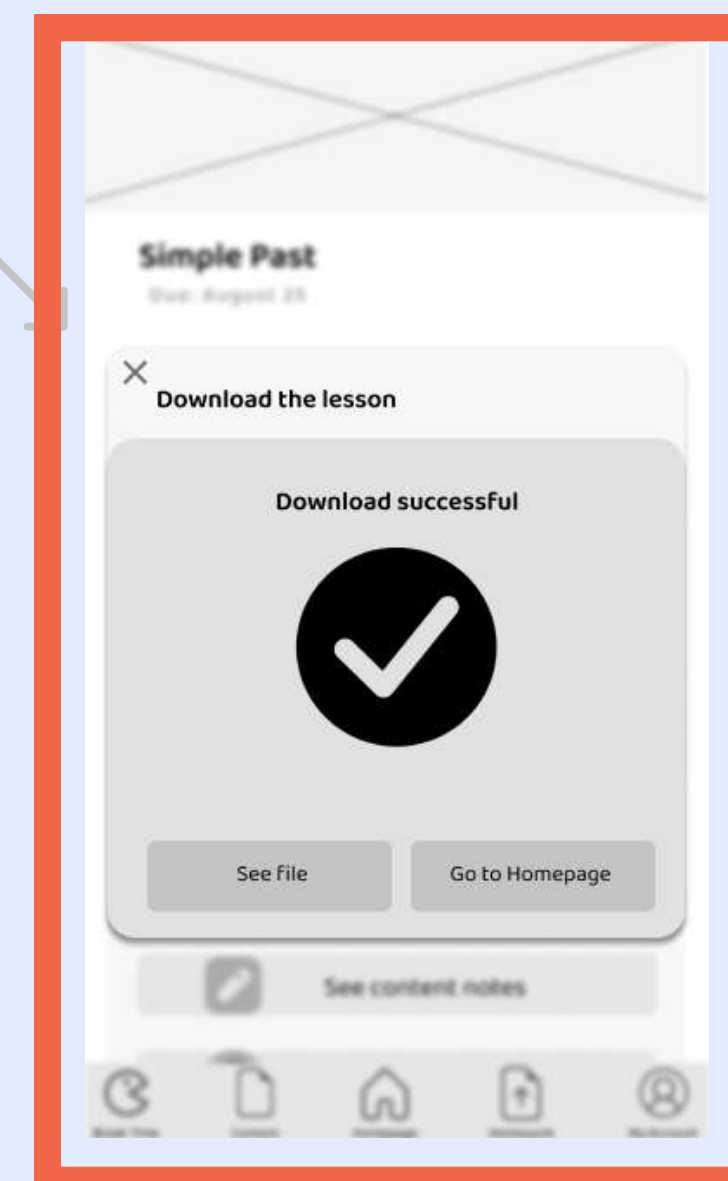
From Notebook To Wireframe
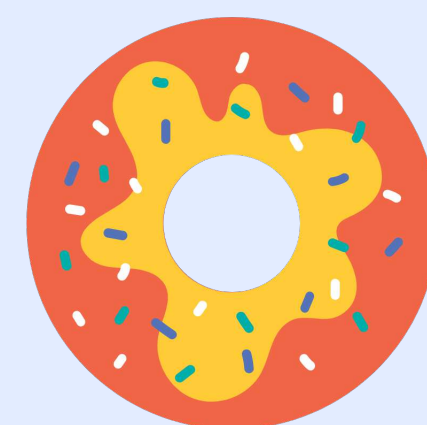

49

07 Wireframe Flows

Flow 1 (Wireframe) : Question Modal flow

Flow 2(Wireframe) :Downloading Class content

What are you going to learn today?

Mathematics

Science

En — English

Geography

Let's Learn English

Simple Past Created by Mr. Finch
Learned in Aug 14 — Time:70 Min

Simple Present Created by Mr. Finch
Learned in Aug 15 — Time:50 Min

Simple Future Created by Mr. Finch
Learned in Aug 15 — Time:40 Min

Present Perfect
Will learn tomorrow — Time:40 Min

Conditionals Created by Mr. Finch
will learn in 2 days — Time:30 Min

Passive Created by Mr. Finch
Will learn in 5 days — Time:90 Min

See the material:

Content | My Notes | The Screen Recording

Description

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged.

Attachements

Simple Present-Subject pronoun I
August 20

Simple Present-Subject pronoun You
August 22

See my notes:

Content | Videos | Notes

Simple Present notes
Added Aug 11

Notes

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged.

Break Time | Content | Homepage | Homework | My Account

See my notes:

Content | Videos | Notes

Simple Present notes
Added Aug 11

Notes

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged.

Take a picture
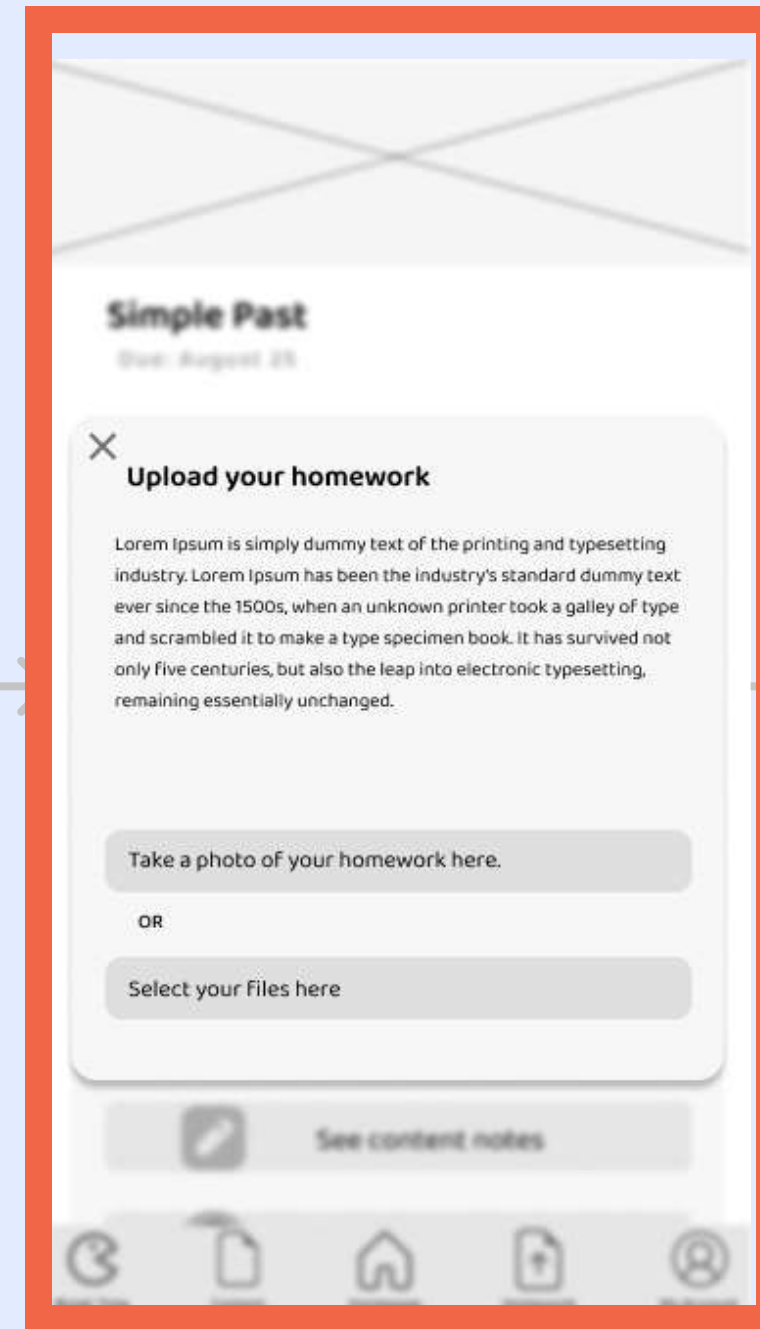Enter Manuals

Add a note

Break Time | Content | Homepage | Homework | My Account

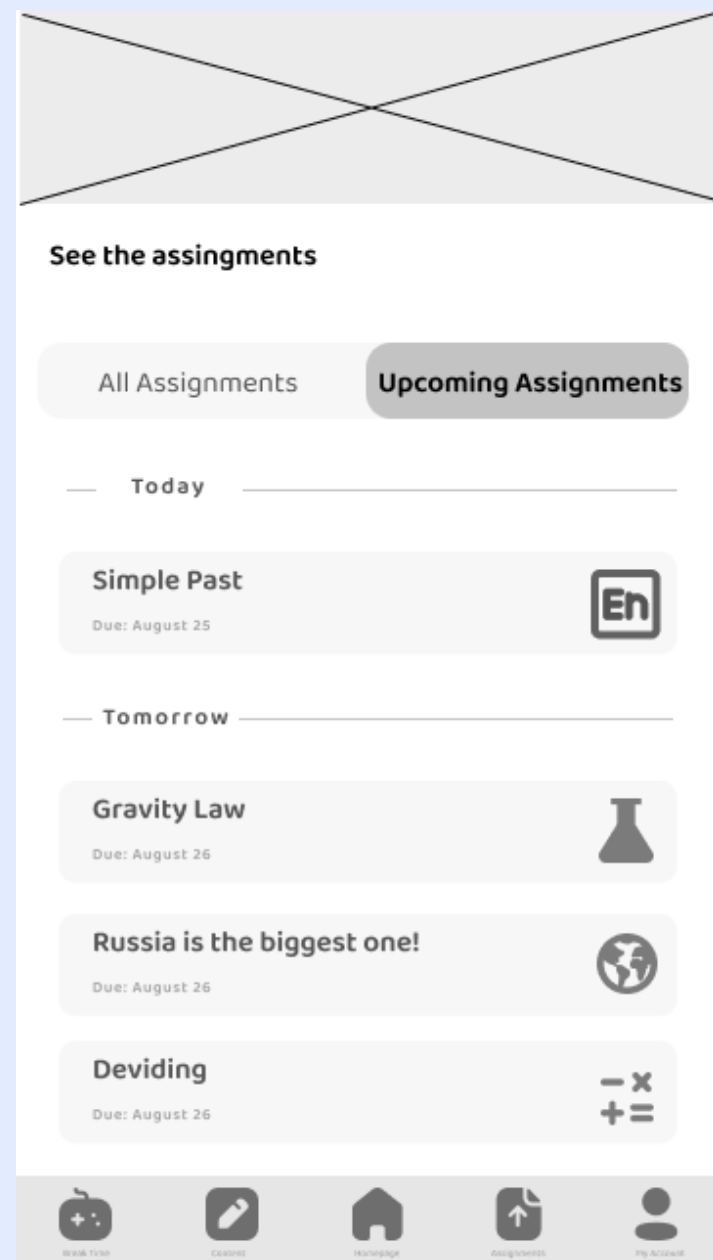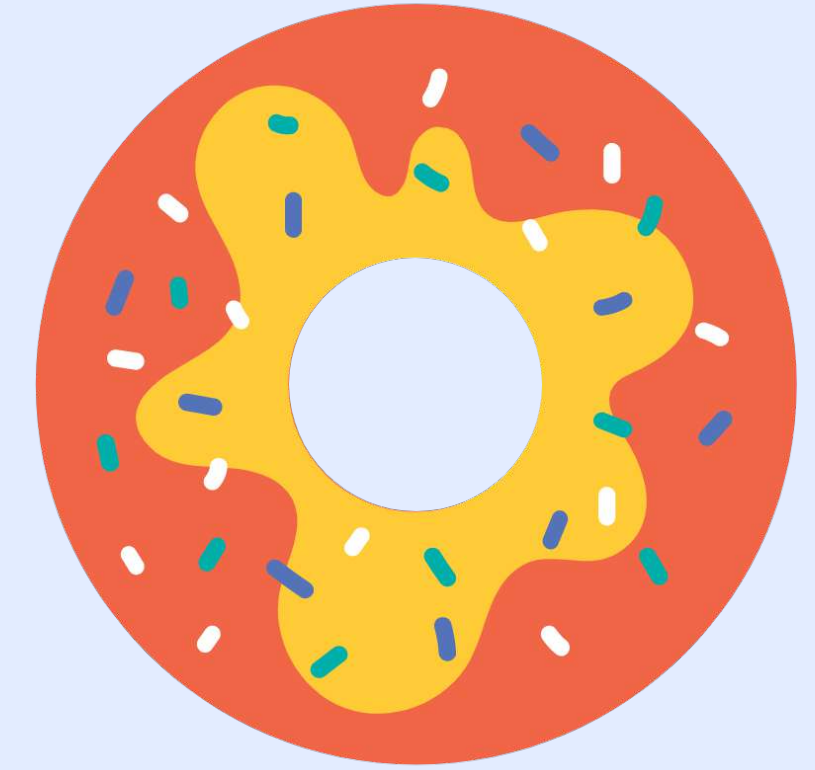This page was added after user testing

Simple Past
Due: August 25

× **Download the lesson**

Download successful

✓

See file | Go to Homepage

See content notes

Break Time | Content | Homepage | Homework | My Account

This page was added after user testing

52

Flow 3(Wireframe) :Upload an assignment

See the assingments

| All Assignments | Upcoming Assignments |

— Today —

Simple Past
Due: August 25   En

— Tomorrow —

Gravity Law
Due: August 26

Russia is the biggest one!
Due: August 26

Deviding
Due: August 26

Simple Past
Due: August 25

Deliverable Details

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged.

Submission

Simple Present-Subject pronoun I
Due: August 20

Need help?

See content notes

Simple Past
Due: August 25

✕ **Upload your homework**

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged.

Take a photo of your homework here.

OR

Select your files here

See content notes

This page was added after user testing

Simple Past
Due: August 25

✕ **Upload your homework**

Search by type or file name

Search

Photos   Videos   Audio   **Document**

Simple Past Homework   Chemistry Homework   Mathematics

Math Homework   Exam 1   Fun Print

See content notes

This page was added after user testing

Simple Past
Due: August 25

✕ Download the lesson

Download not successful

✕

Try again   Go to Homepage

See content notes

Simple Past
Due: August 25

✕ Upload your homework

Upload successful

✓

See your Homework   Go to Homepage

See content notes

These pages were added after user testing

53

08 User testing

Test Criteria

- My users are between ages of 8 to 12

- English is their second language

- They have been studying online for past 2 years in developing countries

- They have been uploading their homeworks into messaging apps for the past 2 years

- They used educational applications that are not designed for kids

- I am going to test my prototype with 7 young children and 3 grown ups. I want to make sure parents can use this app as efficiently as children

Maryam Farid
Her parents signed the Minor (Child) Photo Release Form

Assumptions

- User is logged in

- They have been using this app for a while now.

- They have been uploading their assignments and downloading class content with this app for a while

- They have added different classes that they attend

- They are attending math class, English class, science class... and wants to download the content of English class.

- User is in elementary school and know how to read and write

Nazanin Bahrami
Her parents signed the Minor (Child) Photo Release Form

First Task
In class question modal

You want to know today's schedule.

- What classes do you have today?

- When do you have science class?

- How can you go to the classroom?

Your teacher asks a question from all the students.

- Can you answer the question?

- What do you think will happen if you don't answer it correctly?

- Was your answer correct or wrong?

Second Task
Uploading Assignments

You want to know what are your homeworks

- Which homework you have to do first? Why?
- What are the next homeworks? When is their due?
- Can you upload your homework?
- How can you be sure that you have uploaded your file successfuly?

Third Task
Downloading Class content

You want to review your English grammar for your exam

- Where can you find English content?
- Where can you upload your handwritten notes?
- After downloading the content where can you find the file?
- What to you expect to see in each of the tabs in navigation bar?

	Ability to upload the assignment	Ability to download class content	Ability to answer to in class quizes	Understandable language	Easy to understand icons
User 1	✅	✅	✅	⛔	✅
User 2	✅	✅	✅	✅	✅
User 3	✅	✅	✅	✅	✅
User 4	✅	✅	⛔	⛔	⛔
User 5	✅	✅	✅	✅	✅
	5/5	5/5	4/5	3/5	4/5

60

Assumption Mapping

Effort Required to fix

HIGH

Impact On Usability

I am not sure if the task is finished or not.
– Nazanin

I like to see a big congratulations page when I answer correctly to a question!
– Rojeh

The icons at the bottom of the page is confusing
– Delsa

The text under each icon is very light and small
– Samantha

These are not words that we use in our classes.
– Maryam

LOW

I am going to fix all the issues from the first round of user testing to make sure second round will be smoother.

61

Not enough visuals

The Confirmation for in class quizzes weren't as encouraging as what students expected it to be.

So the signs that indicate if the answer is wrong or right has changed .

Vague Navigation Bar

Break Time | Content | Homepage | Assignments | My Account
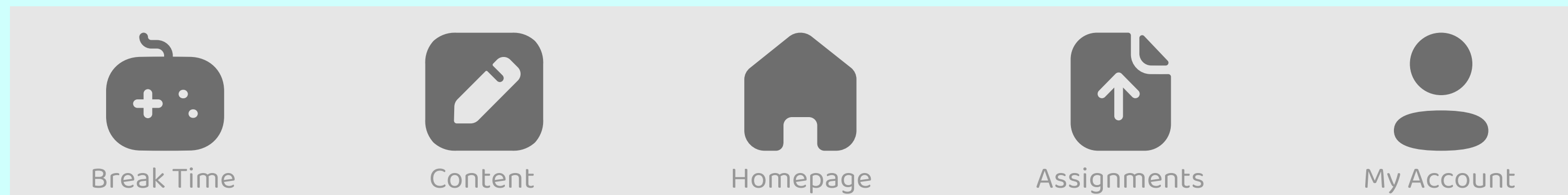
Previous Navigation Bar with not so understandable icons and small text

Break Time | Content | Homepage | Assignments | My Account
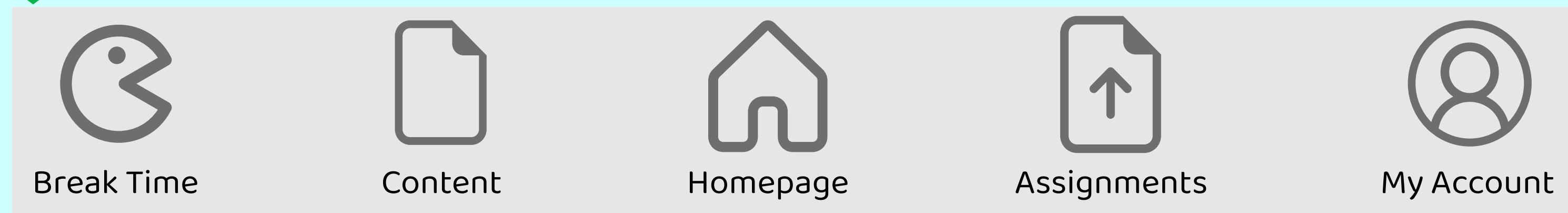
New Navigation bar is bigger and has more white space and bigger text description for each icon

Easy Language

As users are young children that English is

not their first language we try to keep the

language as simple as possible so after

some confusion in user testing these words

has changed:

Deliverable   Homework

Attachments   Files
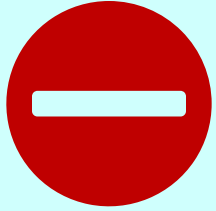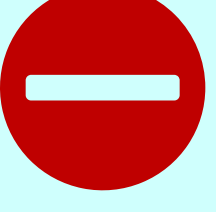
Collaboration   Group Work

Lecture   Class

Class Material   Teacher notes

Description   What you have learned
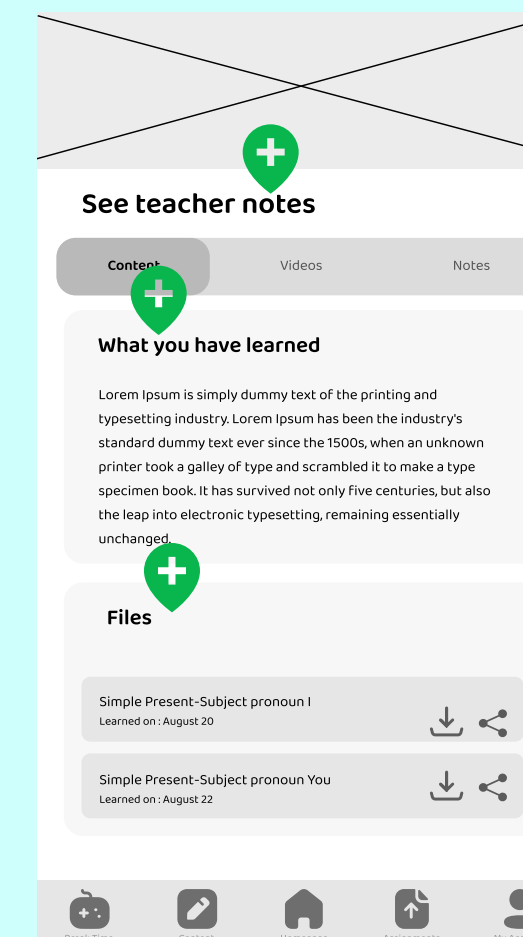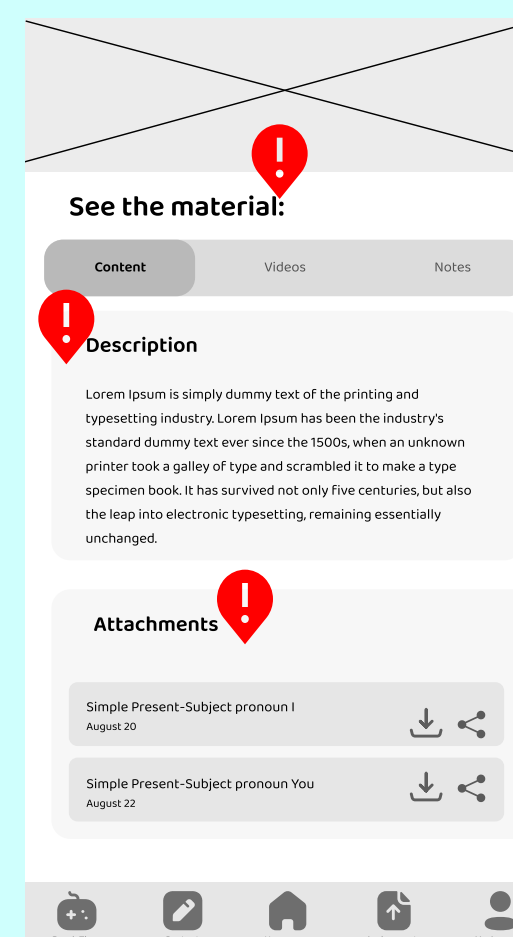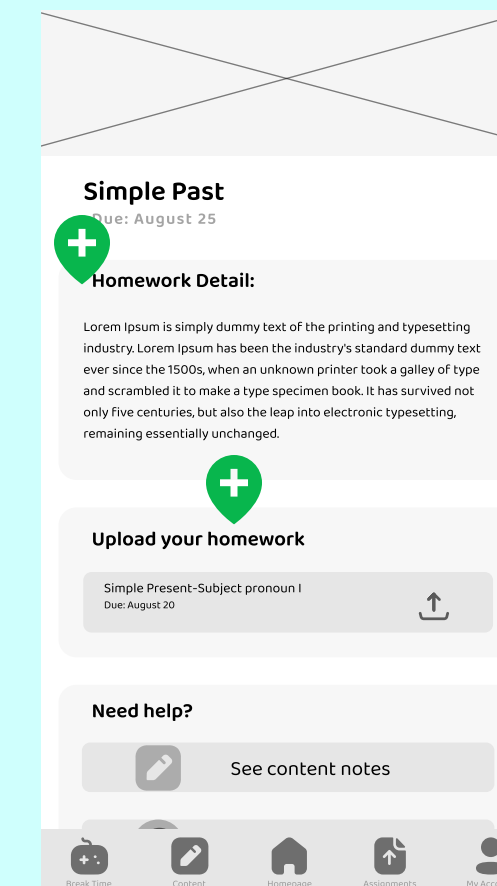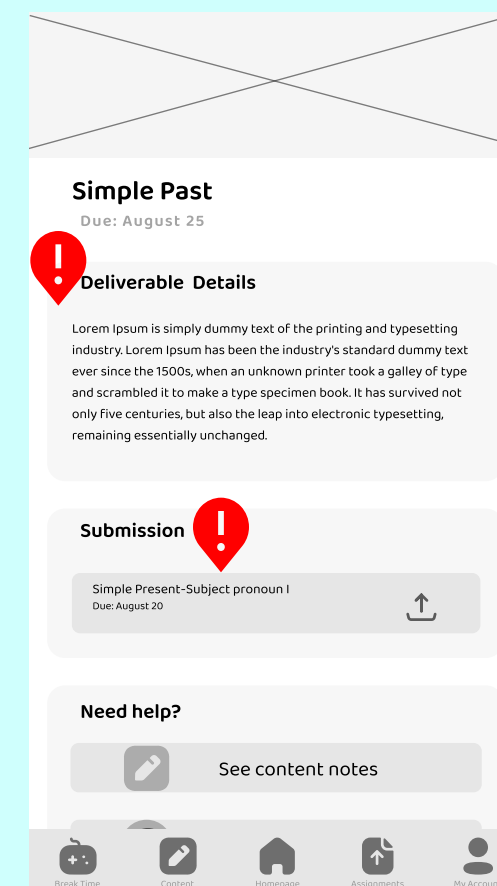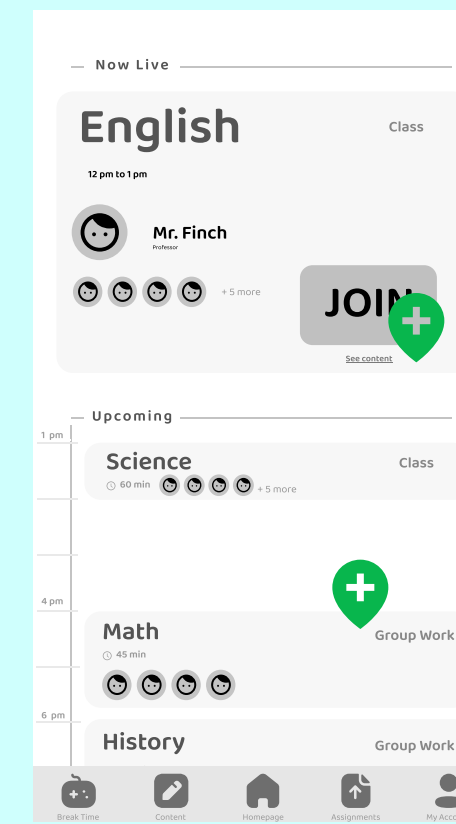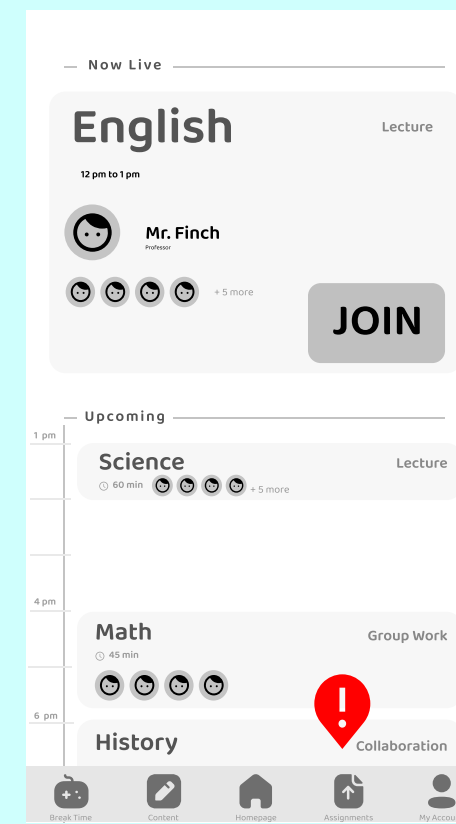
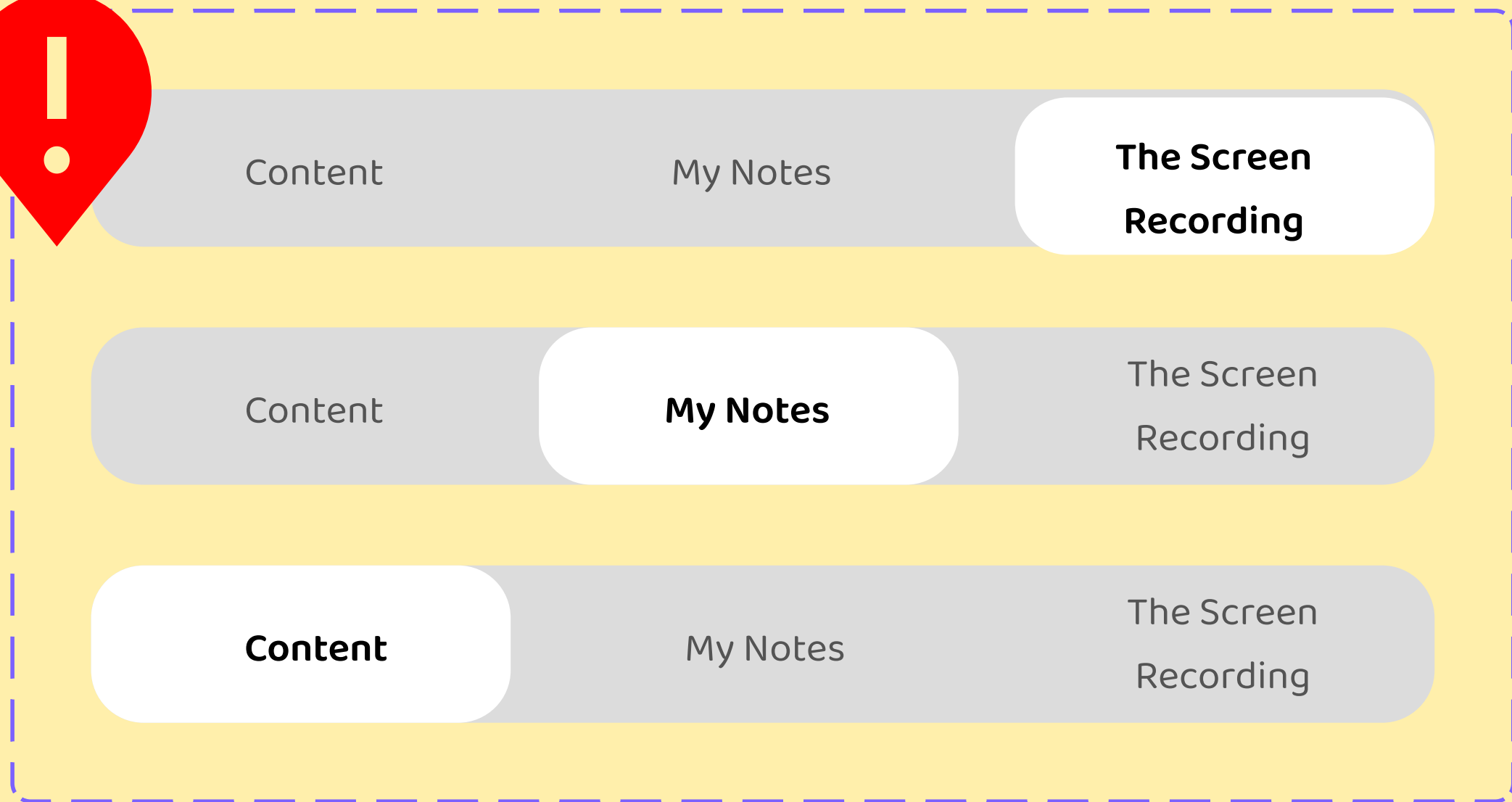|	Ability to upload the assignment	Ability to download class content	Ability to answer to in class quizzes	Understandable language	Easy to understand icons
User 6	✅	✅	✅	✅	✅
User 7	⛔	✅	✅	✅	✅
User 8	✅	✅	✅	✅	✅
User 9	✅	✅	✅	⛔	✅
User 10	✅	✅	✅	✅	✅
	4/5	**5/5**	**5/5**	**4/5**	**5/5**

Assumption Mapping

Effort Required to fix

Impact On Usability

When I don't see a confirmation page I think that I haven't completed the task.
-Zach

The icons are not clear for me
- Ava

These are not words that we use in our classes.
- *Maryam*

I don't record my teacher's video when she teaches. If I want to review a topic I watch the videos on YouTube.
- *Avissa*
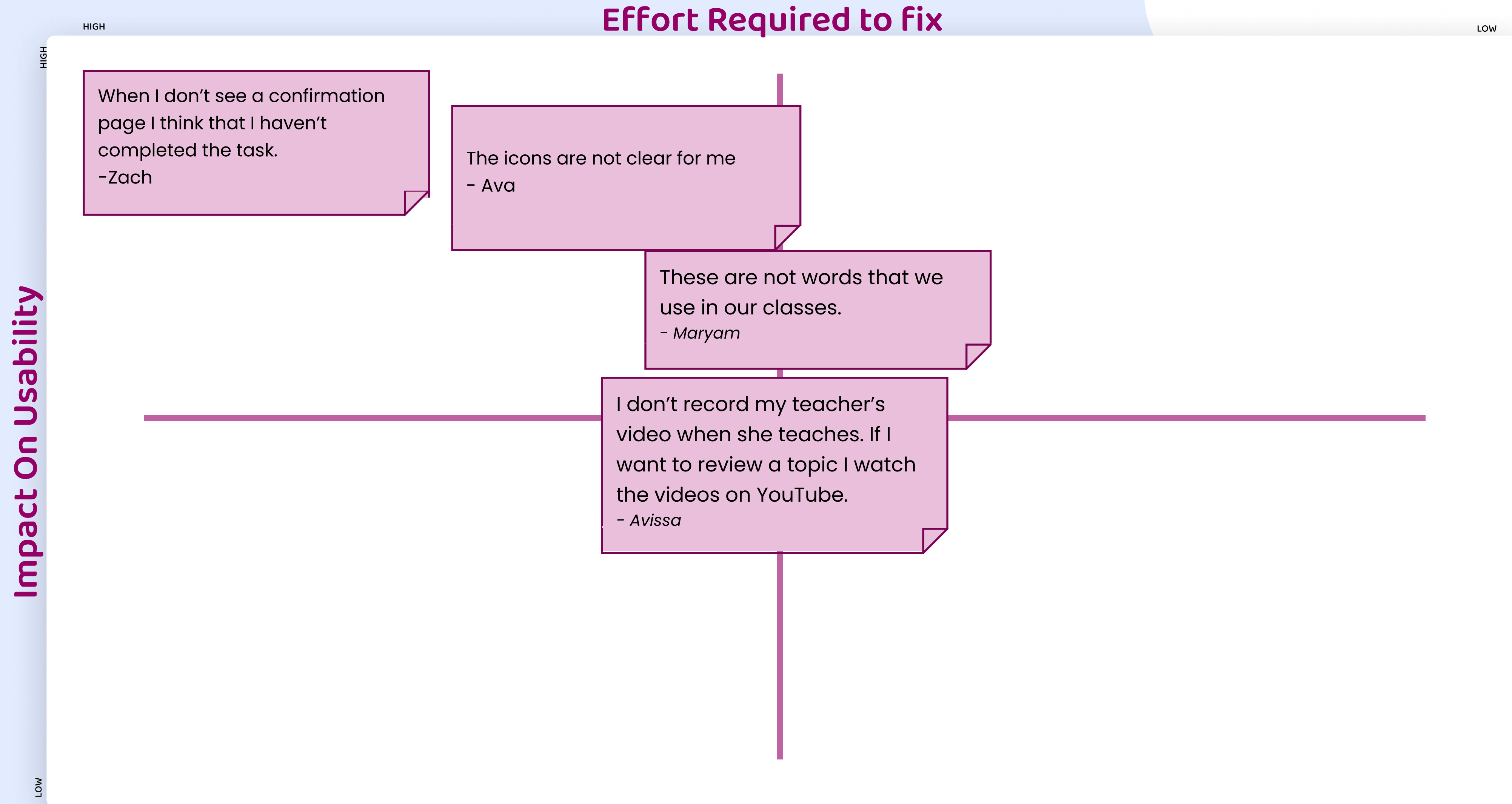
Better order for learning

Content	Videos	**Notes**

Content	**Videos**	Notes

Content	Videos	Notes

Content	My Notes	**The Screen Recording**

Content	**My Notes**	The Screen Recording

| **Content**	My Notes	The Screen Recording
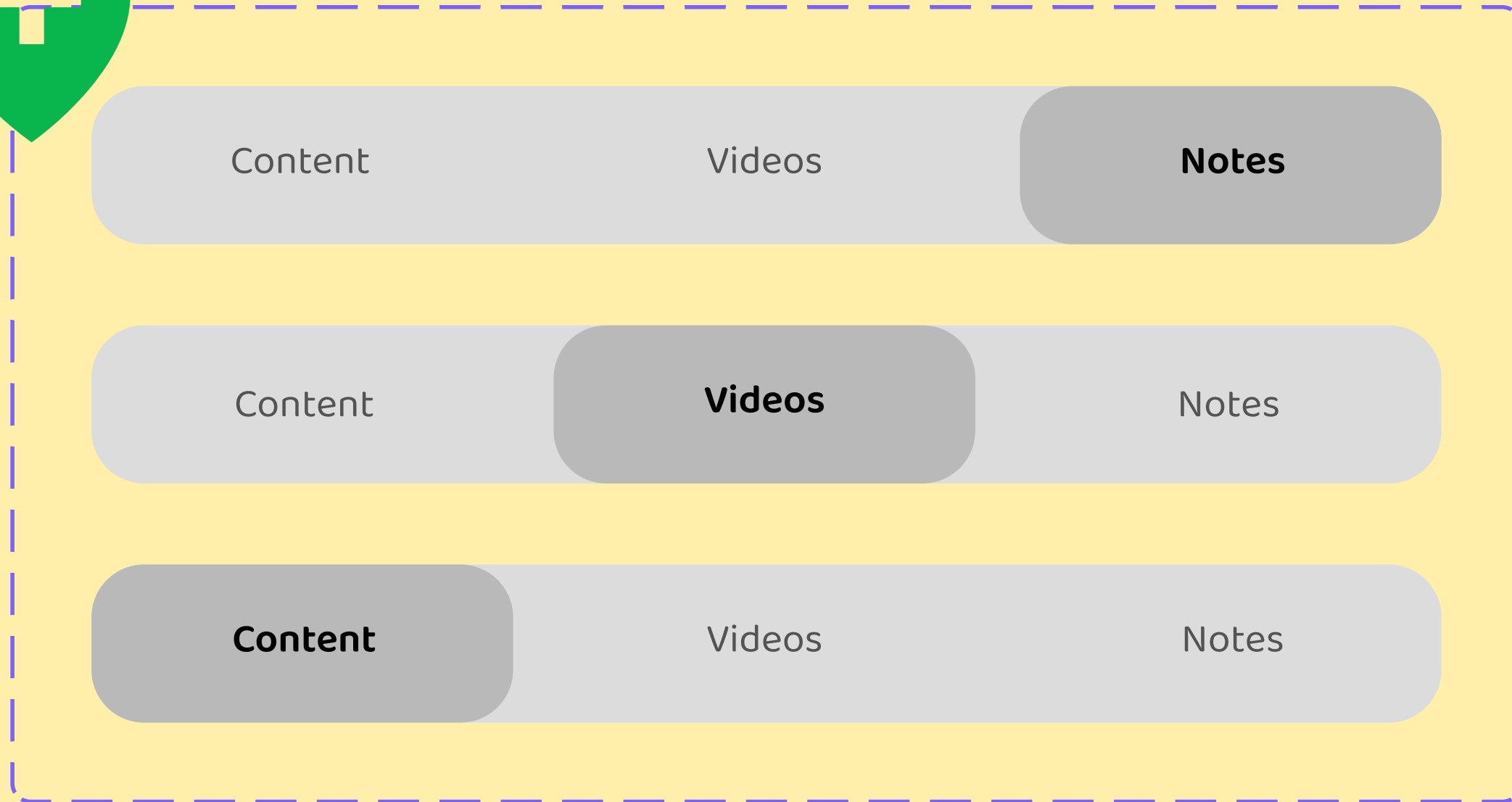
Having easy language in your product and organizing your data in your category is important for designing for kids.

That is why I have changed the layout of the navigation bar and made the order different.

I have included **videos** instead of **screen recordings** for visual learners in the app and Changed **my notes to** keep the text light and simple.

Complete flow, Complete test
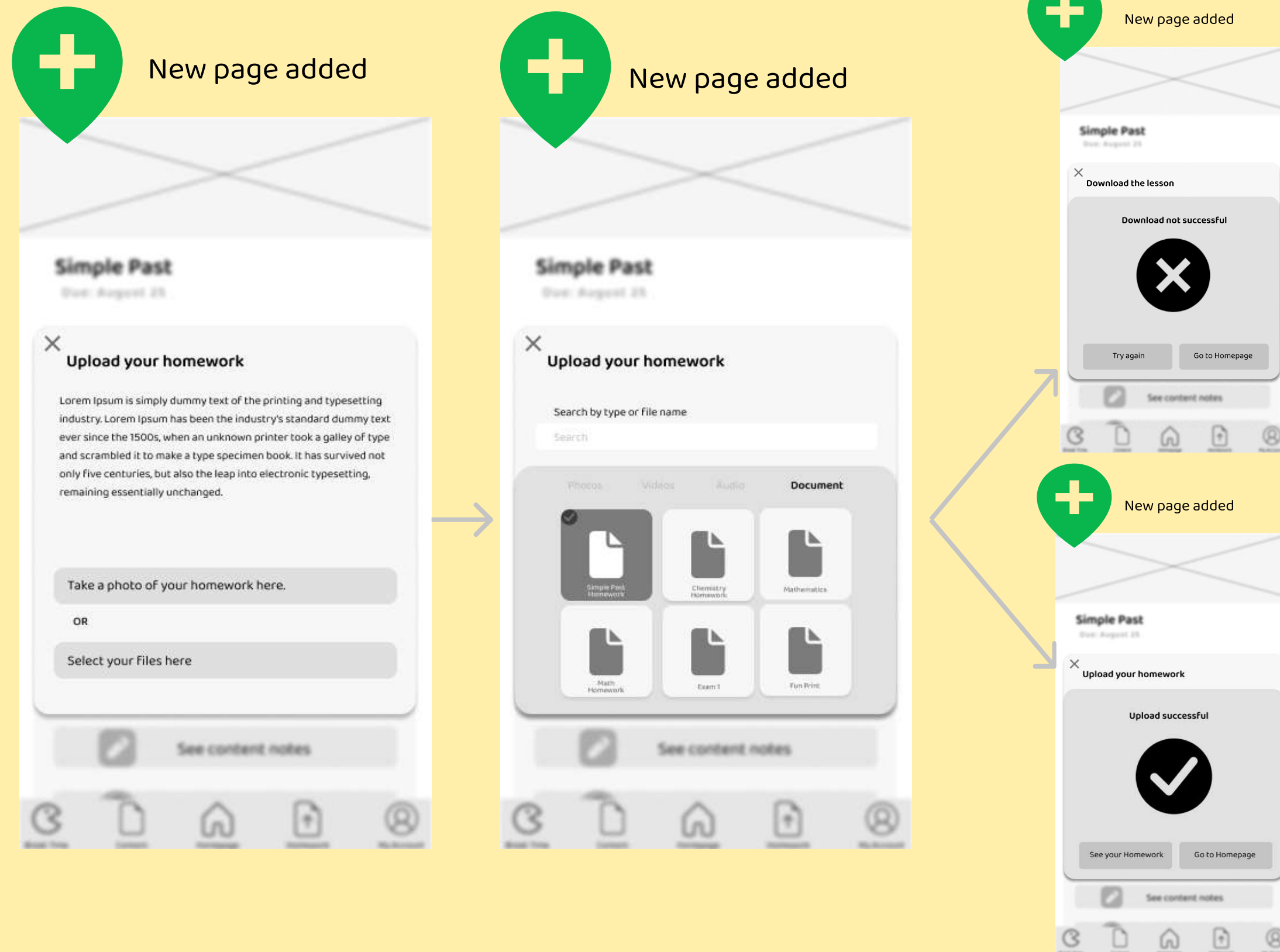
Having a confirmation page and uploading made the user testing easier and helped most of the testing more clear.

Although I thought having an upload button will indicate the feeling of uploading something, User tester didn't think that they have completed the task due to lack of confirmation page.

09 Next Steps

- Adding break time and my account is going to be the next task that I am going to follow.
- As I have done 2 rounds of user test and made sure the flow is understandable for my users. I will continue making the high fidelity version of the prototype in the next phase of this project.
- Next step of this project will be more about changing the grayscale prototype into a fun interface for young children that help them learn more efficiently.
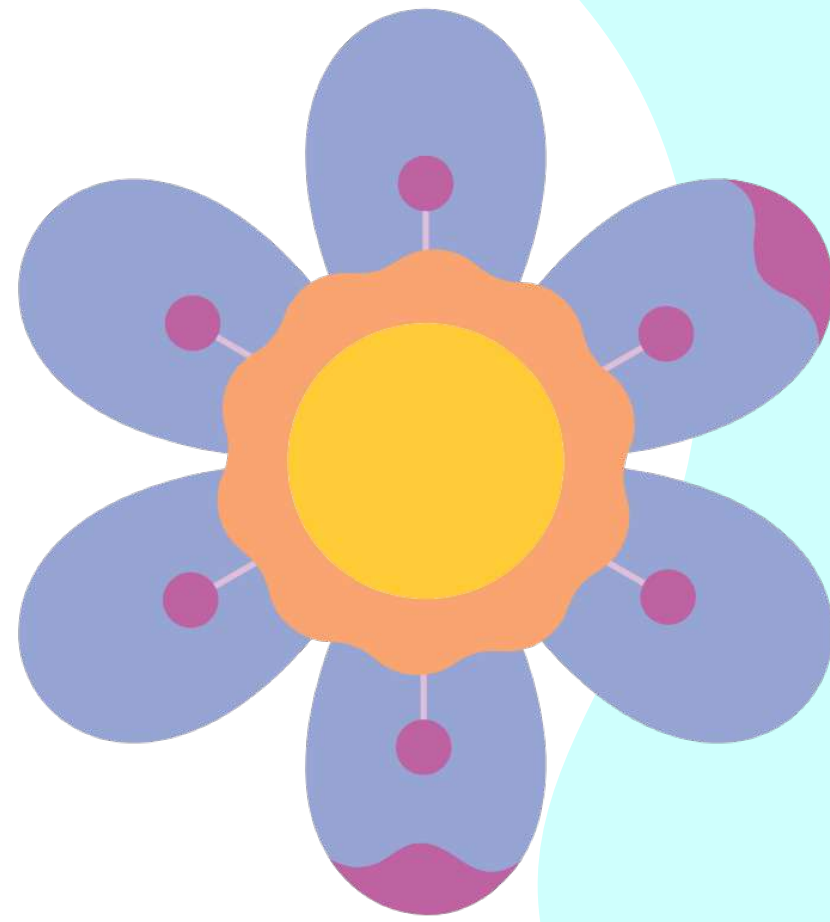

Ava Golzari
Her parents signed the Minor (Child) Photo Release Form

70

10 Appendix

Appendix

Here you can find my Prototype:

https://www.figma.com/proto/xwgNkk5FUilgzatI2Ha4Ep/Wireframes?node-id=2%3A15&scaling=min-zoom&page-id=0%3A1&starting-point-node-id=2%3A15

You can find my presentation deck here:

https://www.figma.com/file/n5PCfMsMfuOGY5PJoXSztH/Parmis_Meshgi_CapstoneProposal?node-id=291%3A2588

Appendix

Design System's for the project:

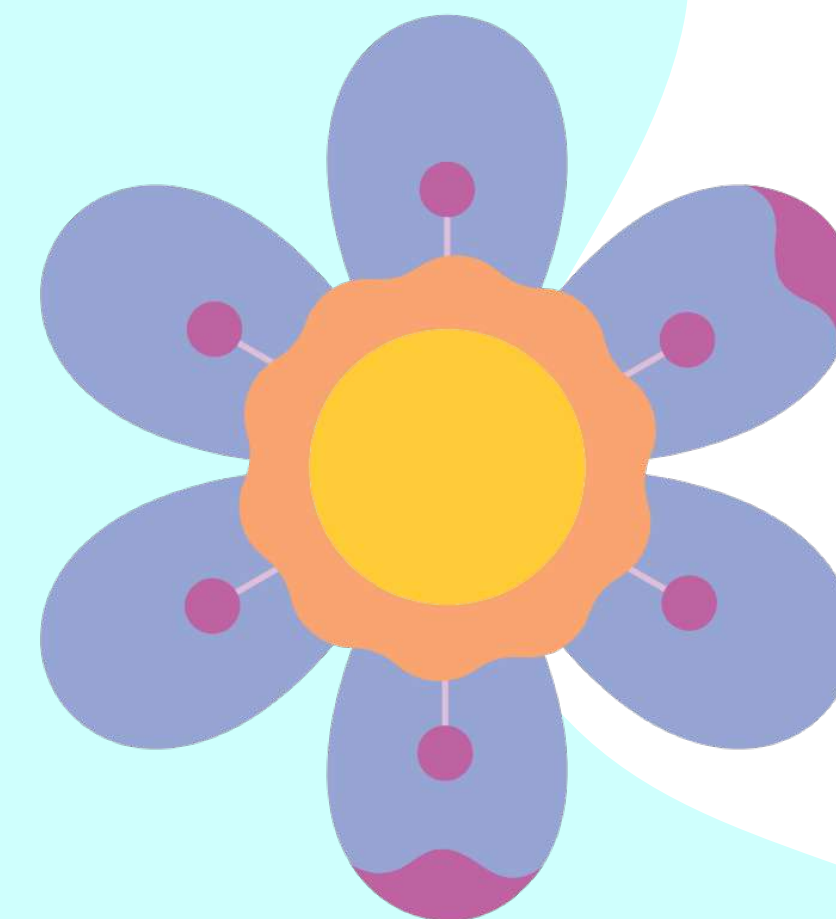https://www.figma.com/file/4Tulo8QpUNaGXG5sNp2e
tn/System-Design-Library?node-id=0%3A1

You can see Capstone Part 1 here:

https://www.figma.com/file/n5PCfMsMfuOG
Y5PJoXSztH/Parmis_Meshgi_CapstoneProp
osal?node-id=99%3A330

You can see paper interactive prototype here:

https://marvelapp.com/68280da

Secondary Research

https://www.nngroup.com/articles/children-ux-physical-development/

https://uxdesign.cc/design-considerations-for-little-fingers-ad2a19ed3816

https://www.uxmatters.com/mt/archives/2011/10/effective-use-of-color-and-graphics-in-applications-for-children-part-i-toddlers-and-preschoolers.php#top

https://indesignskills.com/inspiration/free-fonts-childrens-books/

https://www.lifewire.com/best-kid-coloring-apps-4174282

https://atomicdesign.bradfrost.com/chapter-2/#:~:text=Atomic%20design%20is%20atoms%2C%20molecules,parts%20at%20the%20same%20time.

https://www.nngroup.com/articles/childrens-websites-usability-issues/