

Multimedia technologies in design Site design project UX - UI - For Duolingo App



Part 1 UX Approach

THE UX APPROACH



The Goal

THE CONCURRENCE

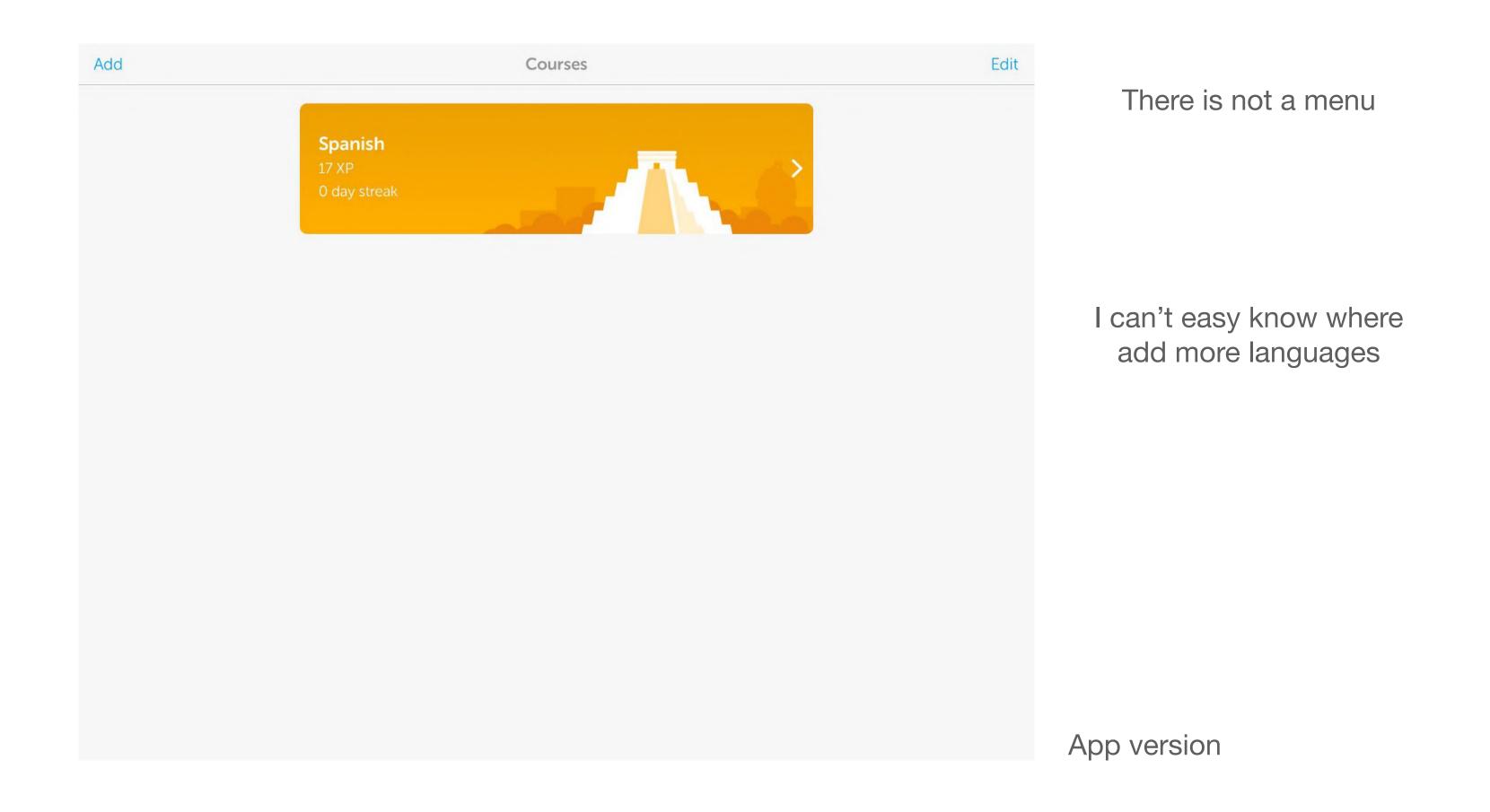
Duolingo has amassed a cult of 66 million app users who learn Spanish, French, German, Italian and Portuguese for free. However, according to CNET critic Jaymar Cabebe, "The app makes you log out and log back in to switch, which is less convenient for couples or even families who share a device."

Intrigued by this problem,

Lean UX design principles to create a more seamless experience for families.

THE CHANGENGE

Help families and couples switch between accounts without the tedious log-in/log-back-in process. In other words, create an account switcher that reduces friction. It's called "Click, Click, Awesome."

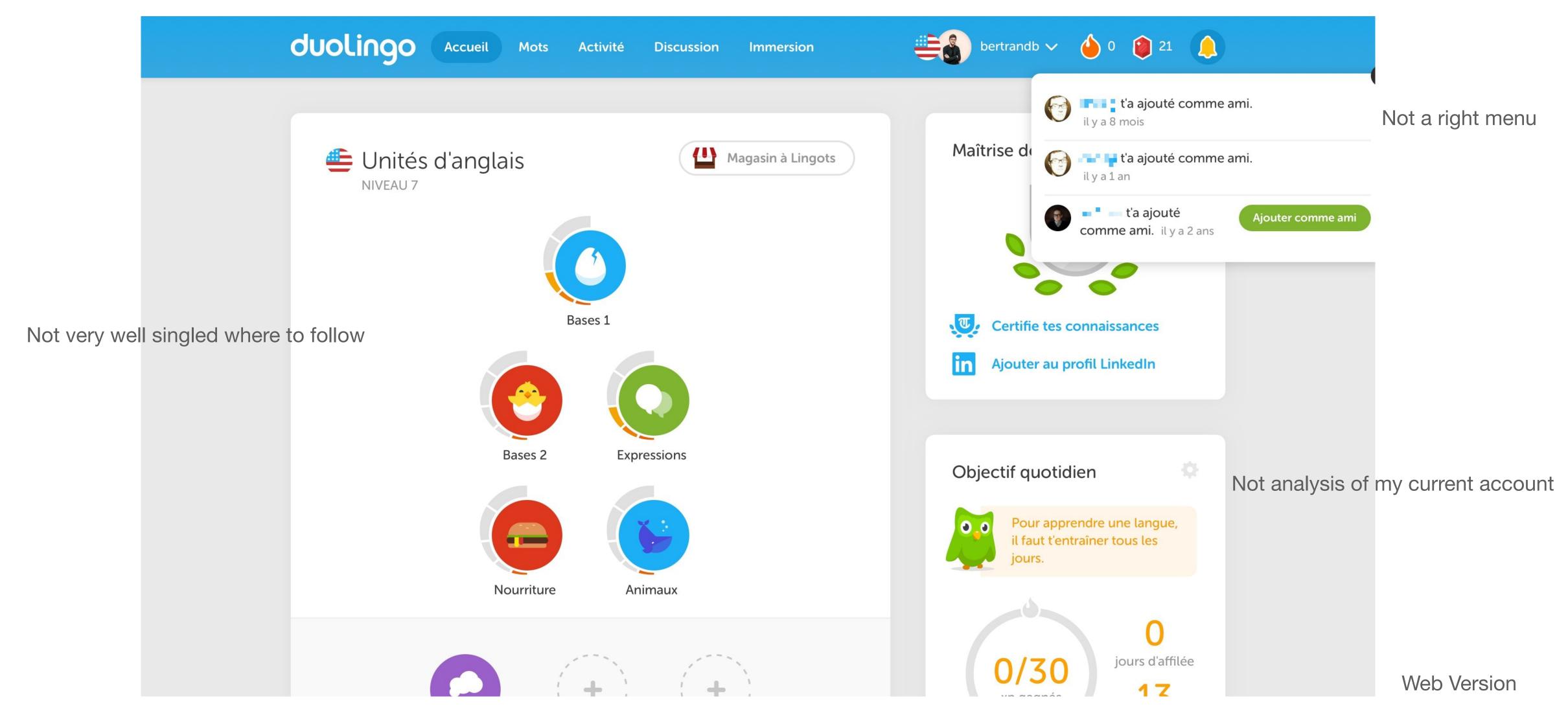


THE CHANGENGE

Not for kids system

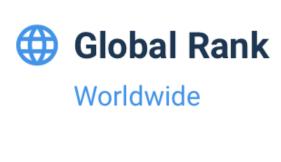
Not responsive design

Not possibly to switch between account





Part 2 Analysis Concurrence



445



Category Rank

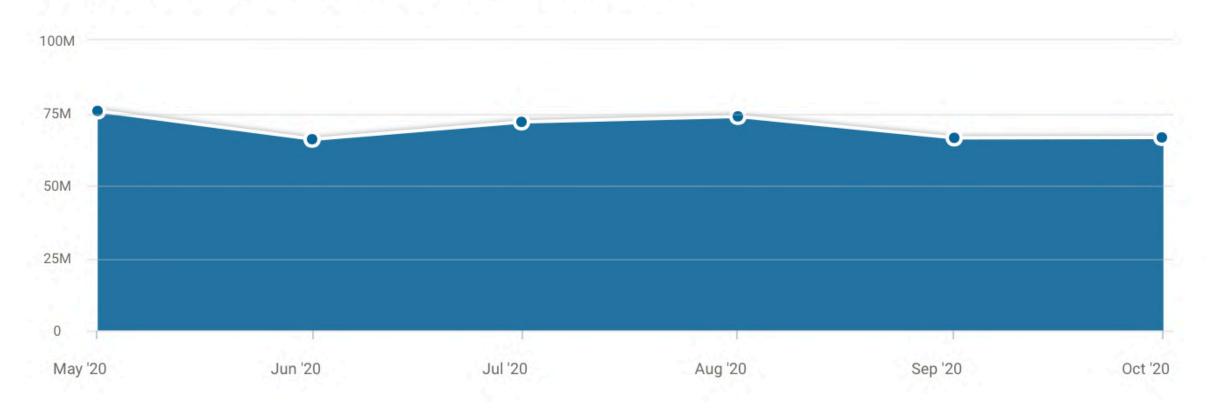
Science and Education > Education

15

Total Visits to duolingo.com ①

Growth & total visits to duolingo.com over time

On desktop & mobile web, in the last 6 months

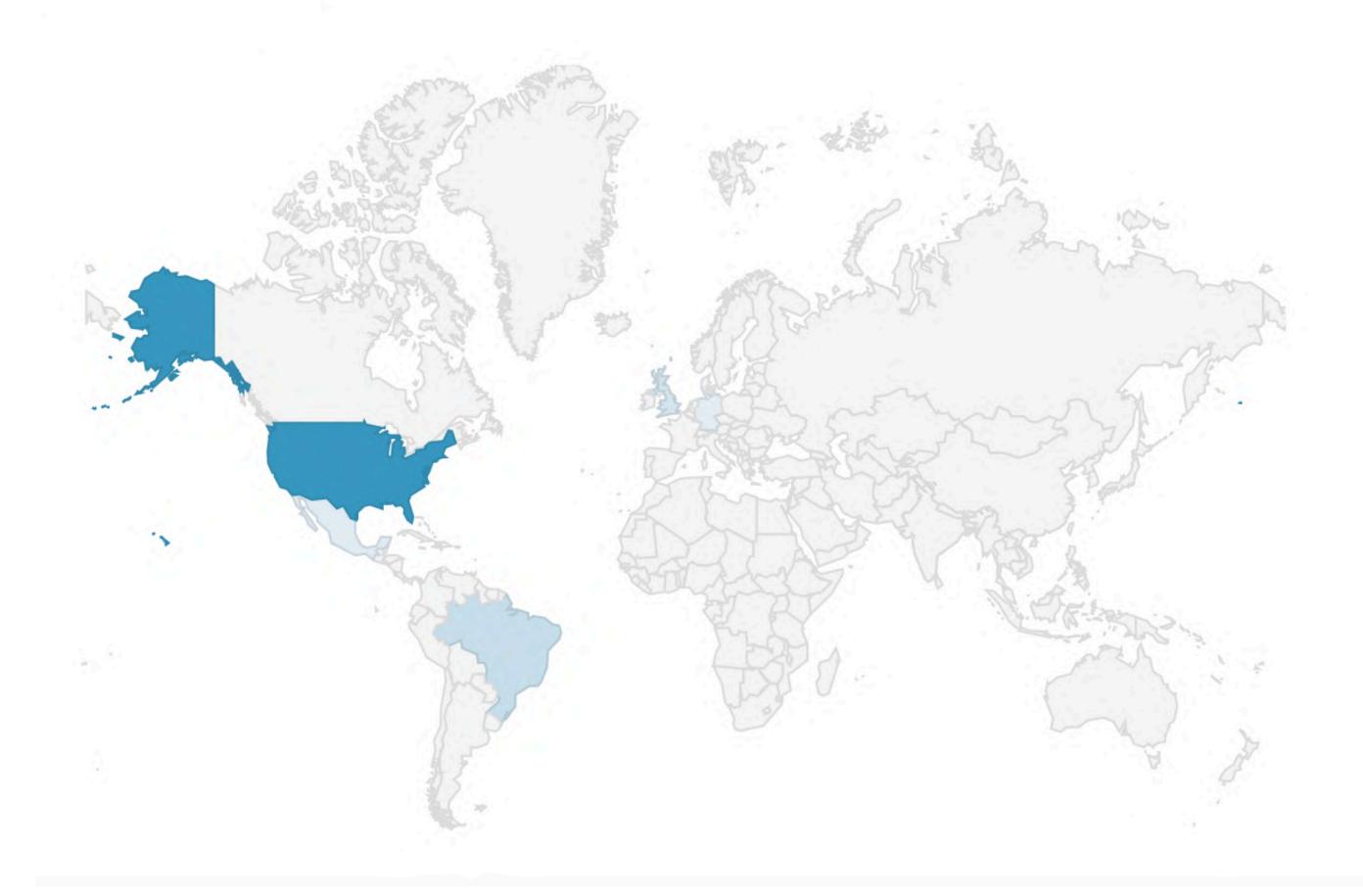


Engagement

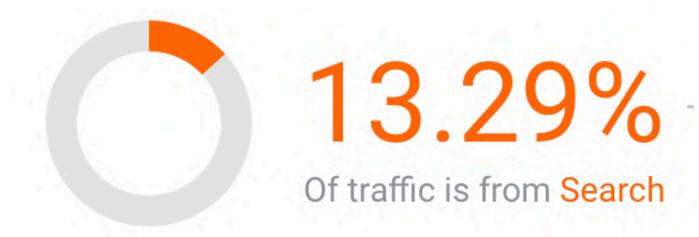
Total Visits	66.57M ^0.19%	
① Avg. Visit Duration	00:13:10	
Pages per Visit	7.25	
Bounce Rate	32.51%	

Traffic to duolingo.com by country

Visits to duolingo.com by country



	United States	25.54%	^ 0.49%
•	Brazil	7.40%	^ 4.22%
	United Kingdom	5.57%	∨ 3.55%
8	Mexico	4.04%	^ 3.79%
	Germany	3.63%	^ 7.84%

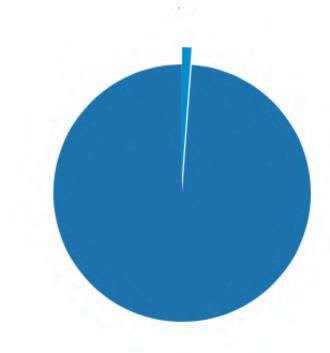


98.81% Organic

Top 5 Organic keywords

Out of 18,552: (i)

duolingo	51.38% • 4.88%
doulingo	1.79% ∨ 16.57%
дуолинго	0.99% •3.88%
duolingo english test	0.91% ✓ 1.23%
dulingo	0.73%



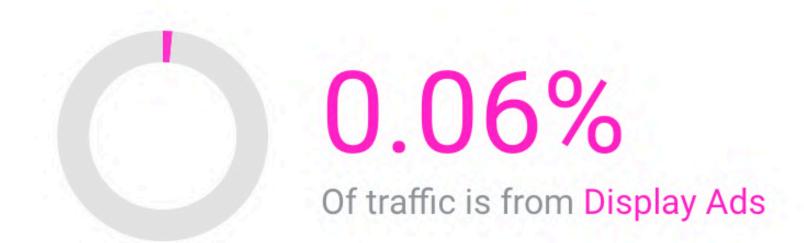
1.19% Paid

Top 5 Paid keywords

Out of 165: (i)

	duolingo english test	0.24%
/		^ 20.97%
	duolingo test	0.09%
		^ 8.49%
	toefl	0.03%
		∨ 38.35%
	toefl test	0.02%
		^ 104.3%
	o n ali o h + o o +	0.000/
·	english test	0.02%
		2.05/0

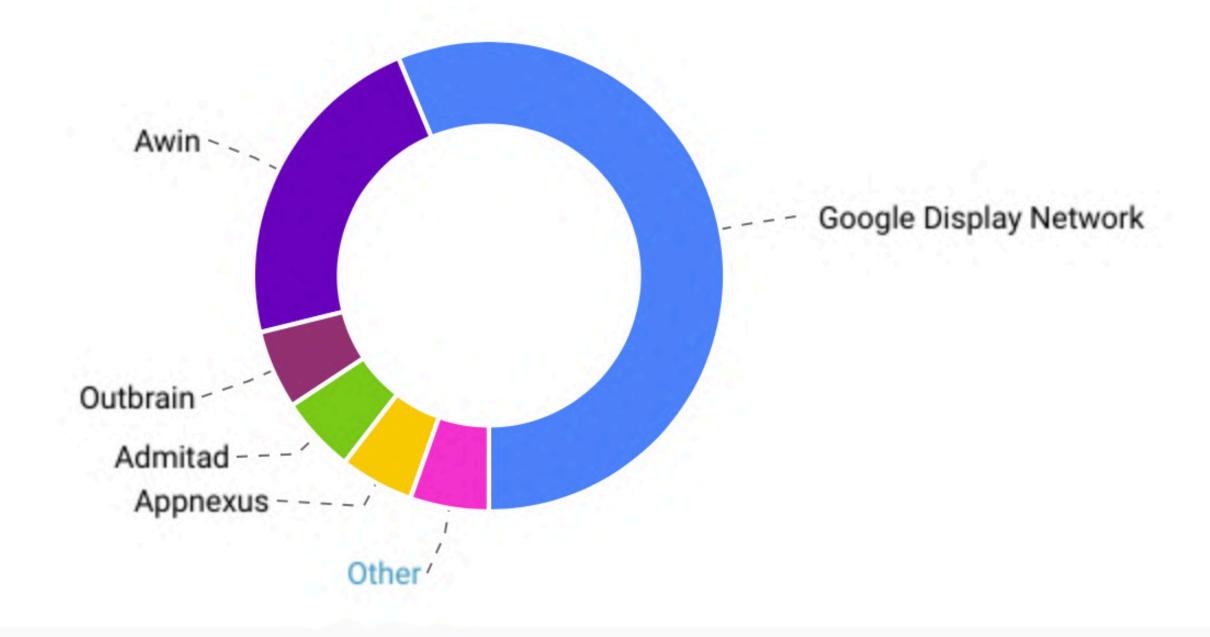
Display Advertising

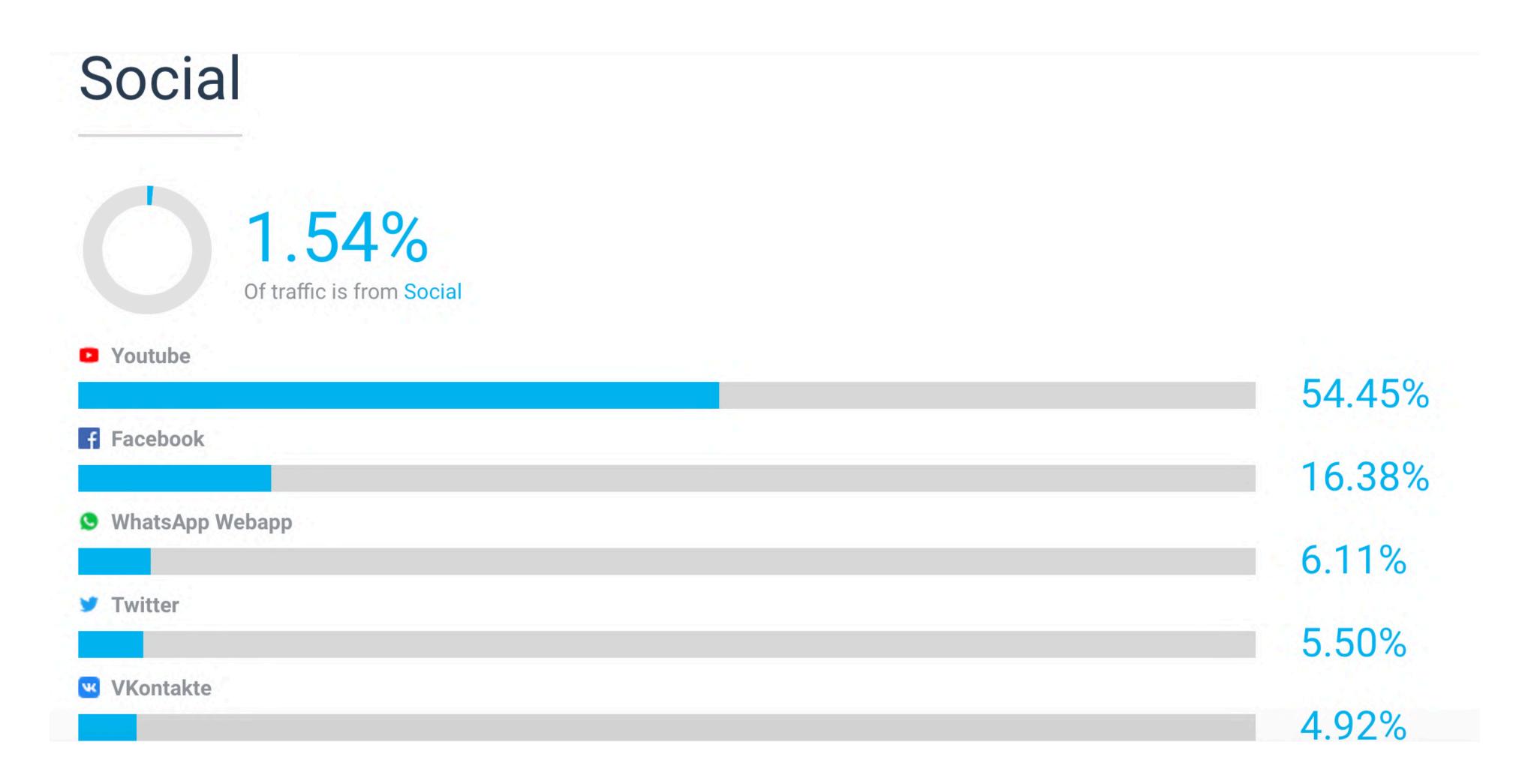


Top Publishers



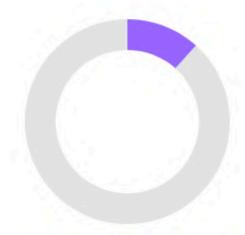
Top Ad Networks



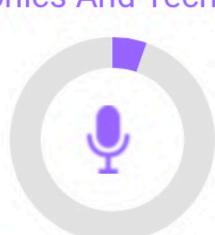


Audience Interests

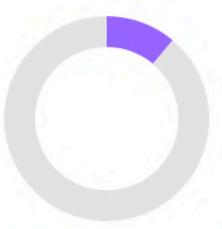
Categories



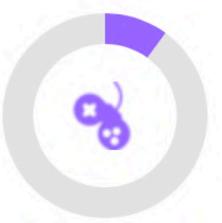
Computers Electronics And Technology > Computers Electronics And Technology



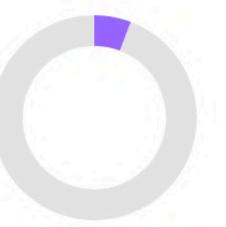
News And Media



Computers Electronics And Technology > Programming And Developer Software



Games > Video Games
Consoles And Accessories



Reference Materials >
 Dictionaries And
 Encyclopedias

Also visited websites

translate.google.com

w en.wikipedia.org

- Q quora.com
- yt.co
- open.spotify.com

Topics

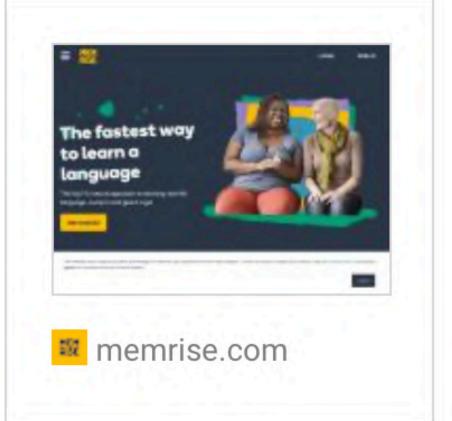


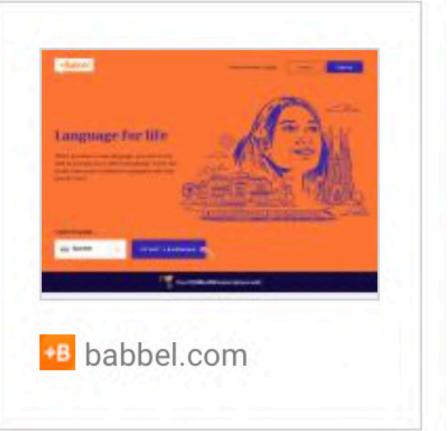


Part 3 Analogy Study

Analysis



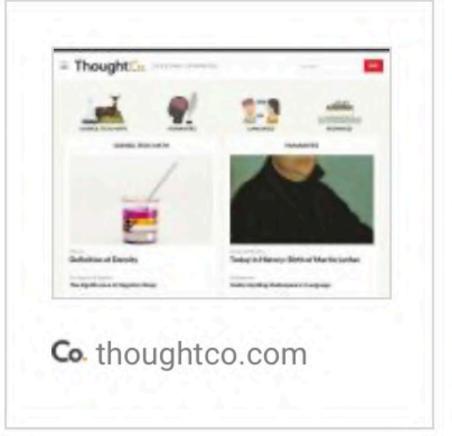


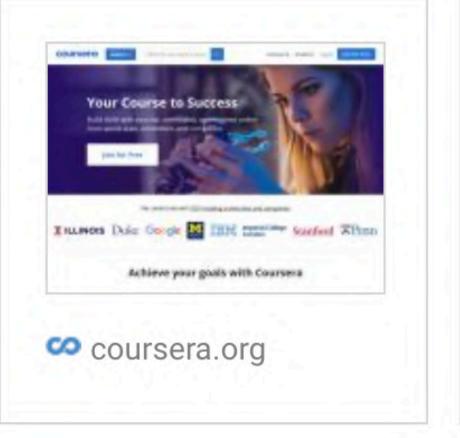




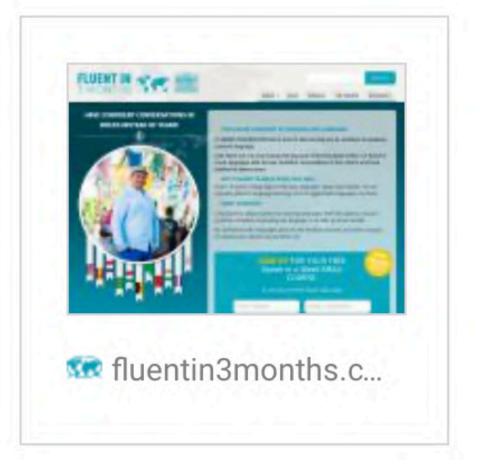




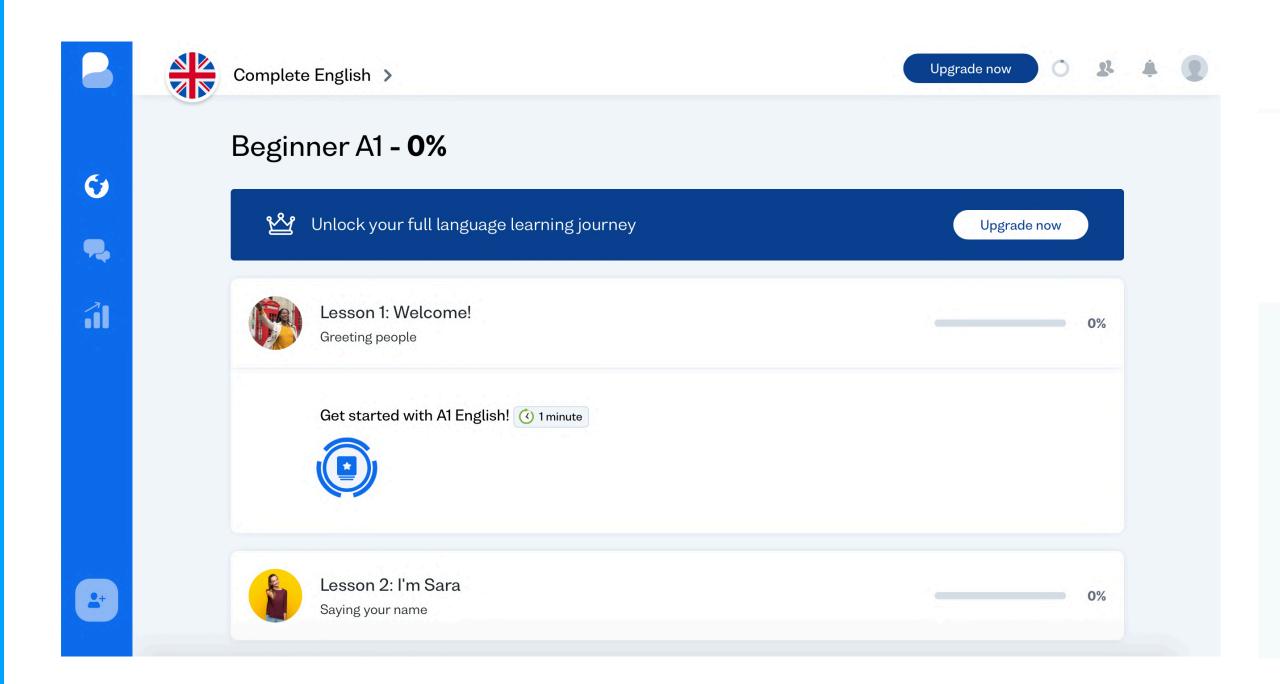


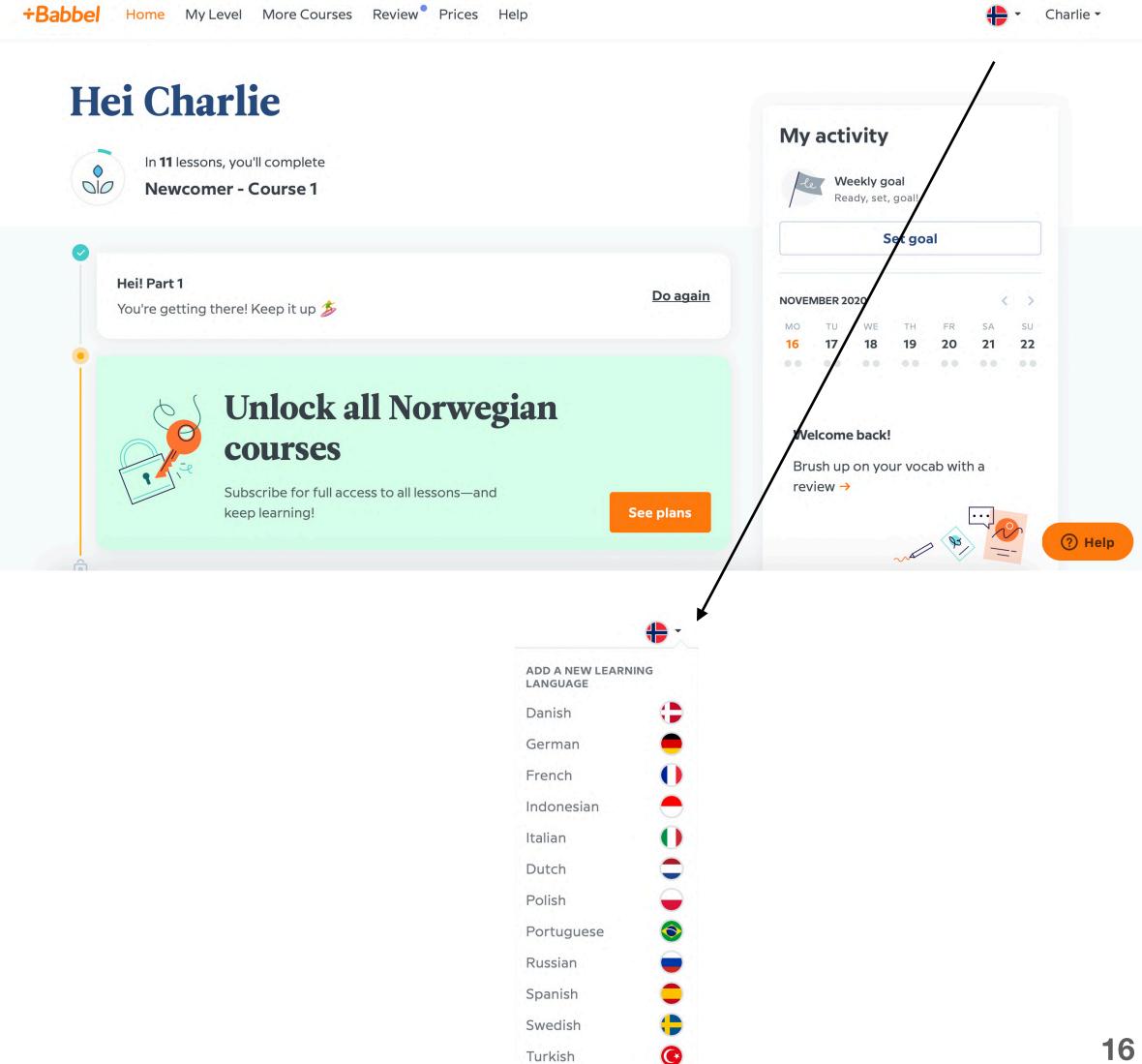






Similar Websites



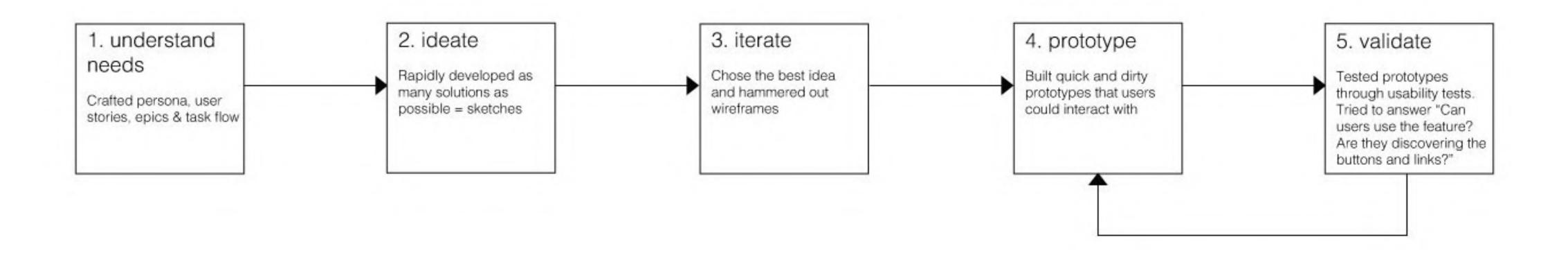




Part 4 Case Study

THE PROCESS

Ran a design sprint in two weeks where I prototyped and tested accountswitching flows for the iOS tablet app. Below is my two week design process.

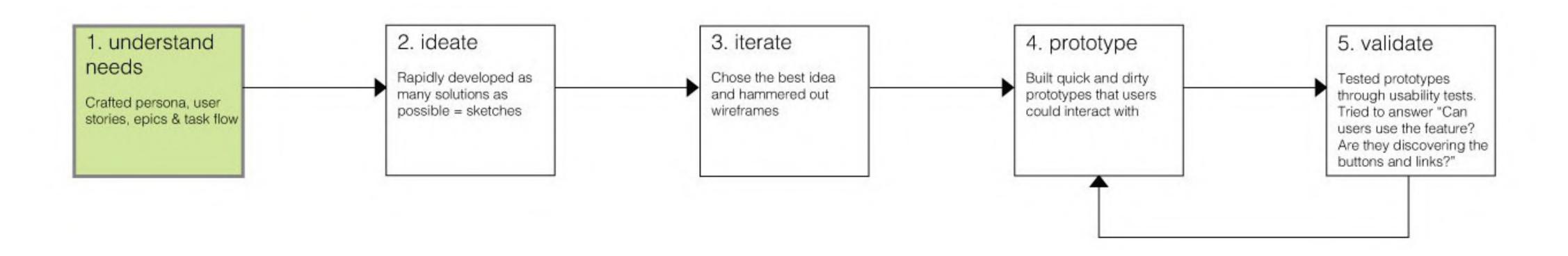


1. Understand Needs

Persona:

Personas put people at the heart of the design process. It's a powerful storytelling technique that informs design strategy.

Meet Ann Karn: Ann is a stay-at-home mom. She's fascinated by languages.



1. Understand Needs (Case)

AGE 35

JOB Stay-at-home mom

STATUS Married, has 2 sons

LOCATION New York, NY **INTERESTS** Loves to learn languages fluent in French and just started to learn Spanish

BEHAVIORS

- Seeks out learning tools for kids
- Learns Spanish on Duolingo with her boys
- Each family member has an account. They take turns playing.
- Shares one iPad with entire family

- Would like to switch between accounts without signing out and signing back in everytime
- Would like to push herself and kids to learn Spanish in a fun way
- Would like to use Duolingo as a supplement to flashcards



This need can be summed up with a user story statement: [As a <type of user>, I want <some goal> so that <some reason>]

To put this in perspective for Ann or any similar persona, here's what a complete user story statement looks like:

As a mom who shares an iPad with the whole family, I want an easy way to switch between accounts so that I don't have to log out and log back in to play Duolingo.

1. Understand Needs (Case)

To put this in perspective for Ann or any similar persona, here's what a complete user story statement looks like: As a mom who shares an iPad with the whole family, I want an easy way to switch between accounts so that I don't have to log out and log back in to play Duolingo.

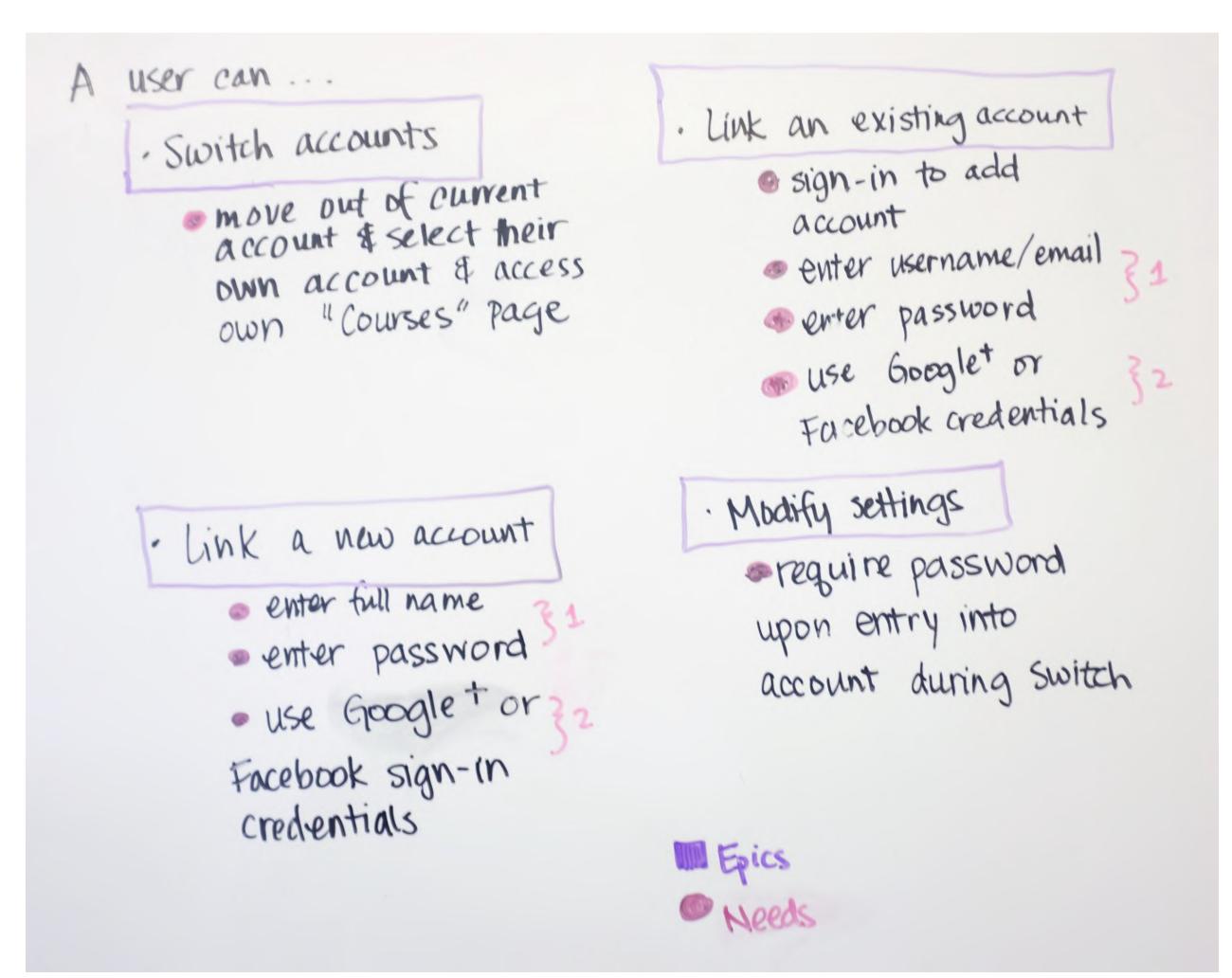
How can I help Ann and her family?

After crafting a persona and user story, I wrote down epics and needs. The purpose of the epic and the needs is to understand the scope and figure out how to meet your users' needs.

Epic = big, coarse-grained user story*

Needs = small, detailed stories that are clear, feasible and testable*

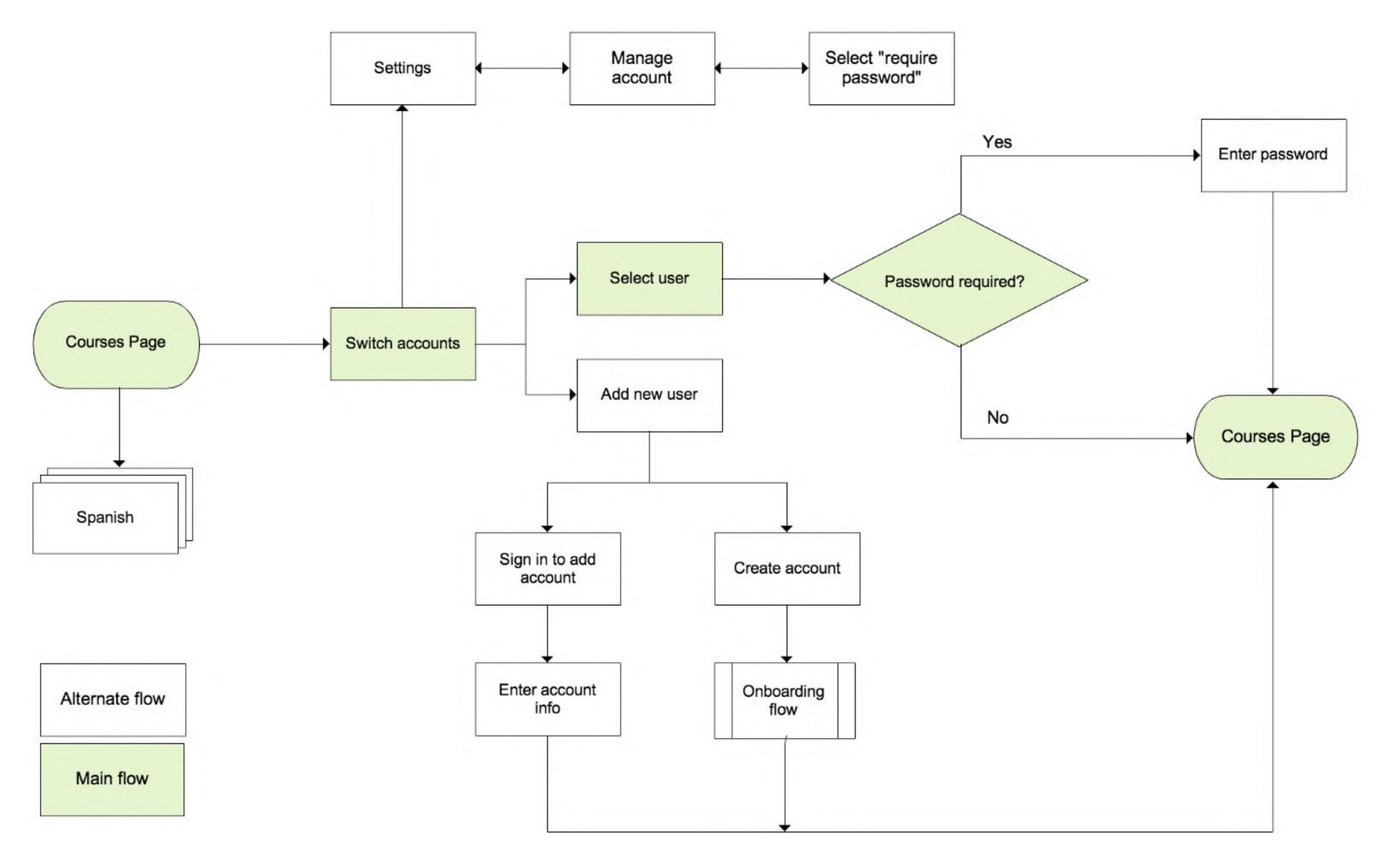
Started with Epics, which are high-level user stories
 Decomposed epics into smaller, detailed stories until they are clear, specific and testable.



This also helps layout all of the tasks that need to be addressed by design and eventually engineering.

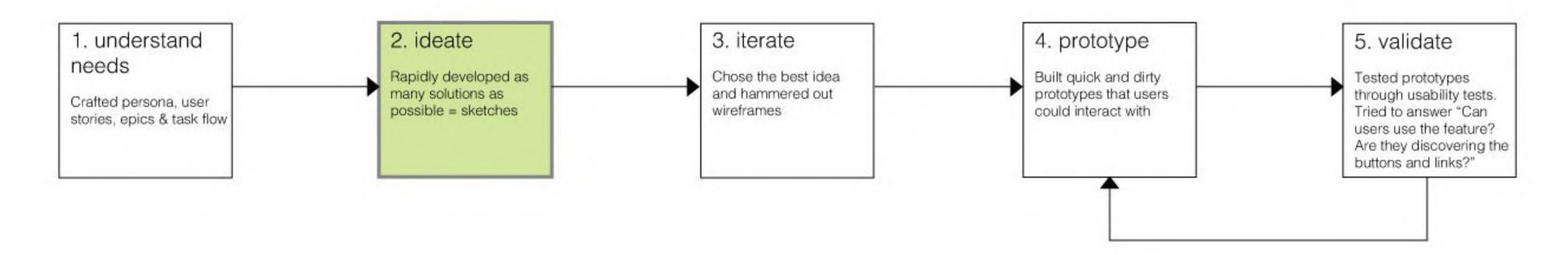
TASK FLOW

The flow diagram below depicts how a user travels through the system as they switch accounts. The diagram also shows alternate flows and edge cases (unexpected things that happen with the feature) that a user may run into while performing an account switch.



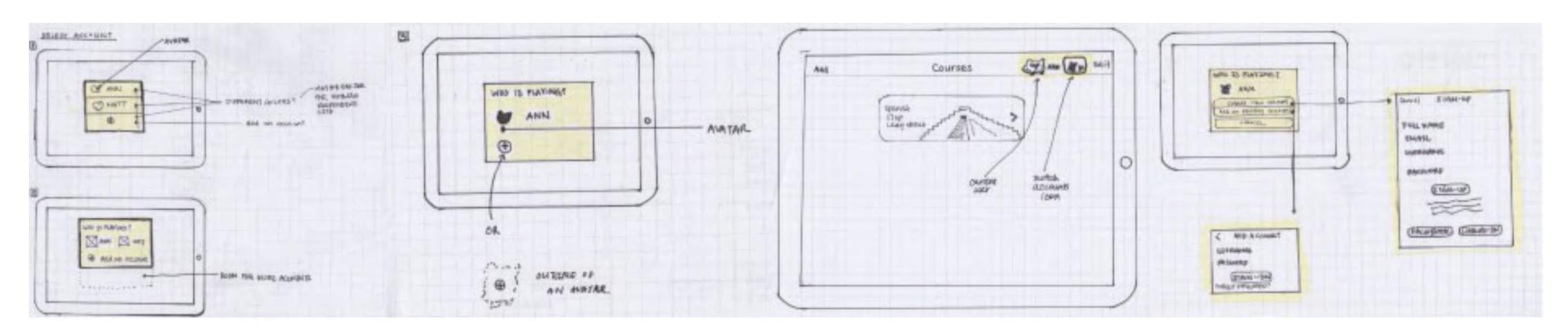
Based on the scope of this exercise, the "password required" page will not be addressed.

2. IDEATE

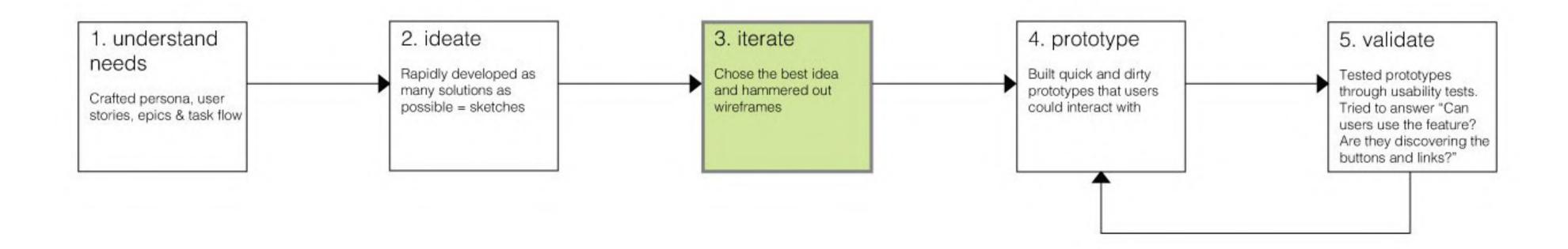


Sketches:

Next, I experimented with as many solutions as possible. I create this on paper to ideate quickly. After I sketched, I talked to a few people about the sketches to make sure I wasn't missing any major part of the experience.



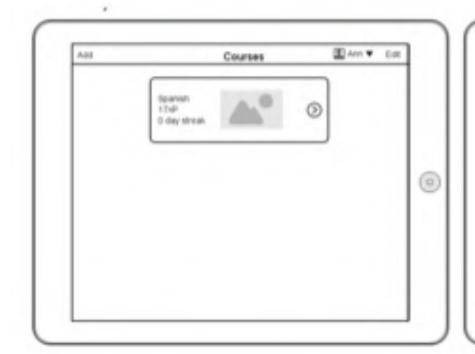
3. ITERATE

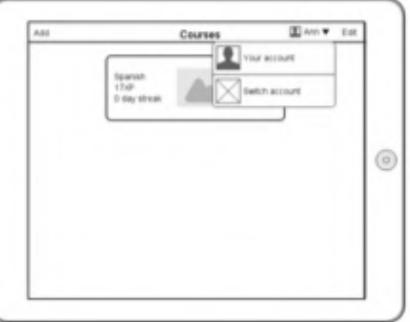


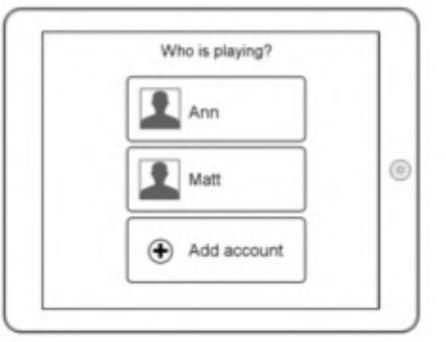
I extracted the top sketches and converted them into wireframes. The wireframes explain the copy, call-to-actions, and other interface elements, as well as how they all work together.

The scenarios and design considerations acted as anchors. I was able to imagine how Ann's family would move through the account switching feature.

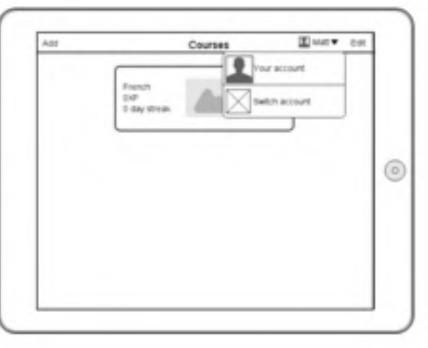
3. ITERATE



















With those scenarios we make the anchors points

Scenarios

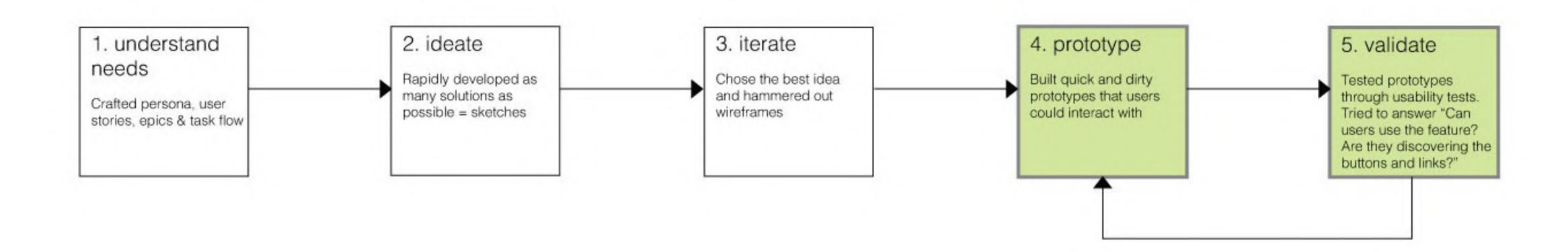
Scenario 1: Ann was playing
Duolingo on her iPad. She gave her
iPad to Matt (her husband) to play
Duolingo. He needs to switch out of
Ann's Duolingo account to his
existing account that has already
been linked to the iPad.

Scenario 2: After Matt plays with Duolingo, he gives the iPad to his son Spencer. Spencer wants to switch from his dad, Matt's account to his own. Spencer has an existing account with Duolingo. However, his account has not been linked to the iPad yet.

Design Considerations

The Karn family shares one iPad. A design consideration I set forth was: all accounts are equal. There are no master accounts or subaccounts. Duolingo is not a paid service like Netflix where the paying member controls all of the accounts.

4 & 5. Create Prototype and Validate with Real Users

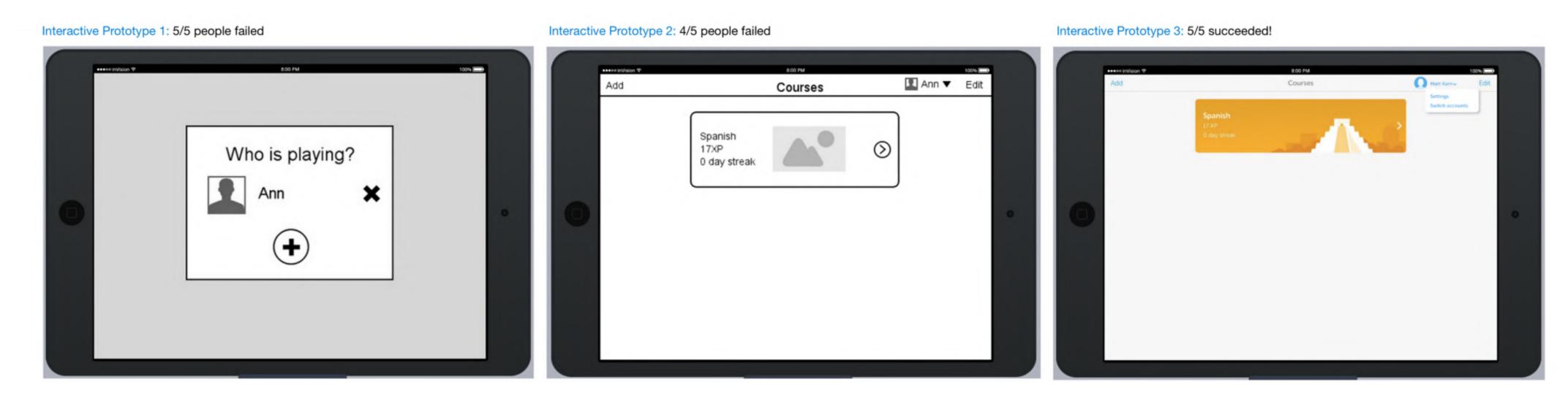


Each prototype tested different approaches to switching accounts. The objective here was to figure out where the confusion was when users move through the flow.

There were: 3 rounds of usability tests (groups of 5 users) 15 users tested

In the first two sets of prototypes, users got stuck. A common reaction was: "I don't get it. I'm confused." Making a simple feature like an account switcher is actually incredibly complicated. (Thank goodness people failed! The usability tests informed how I could move forward and iterate.)

4 & 5. Create Prototype and Validate with Real Users

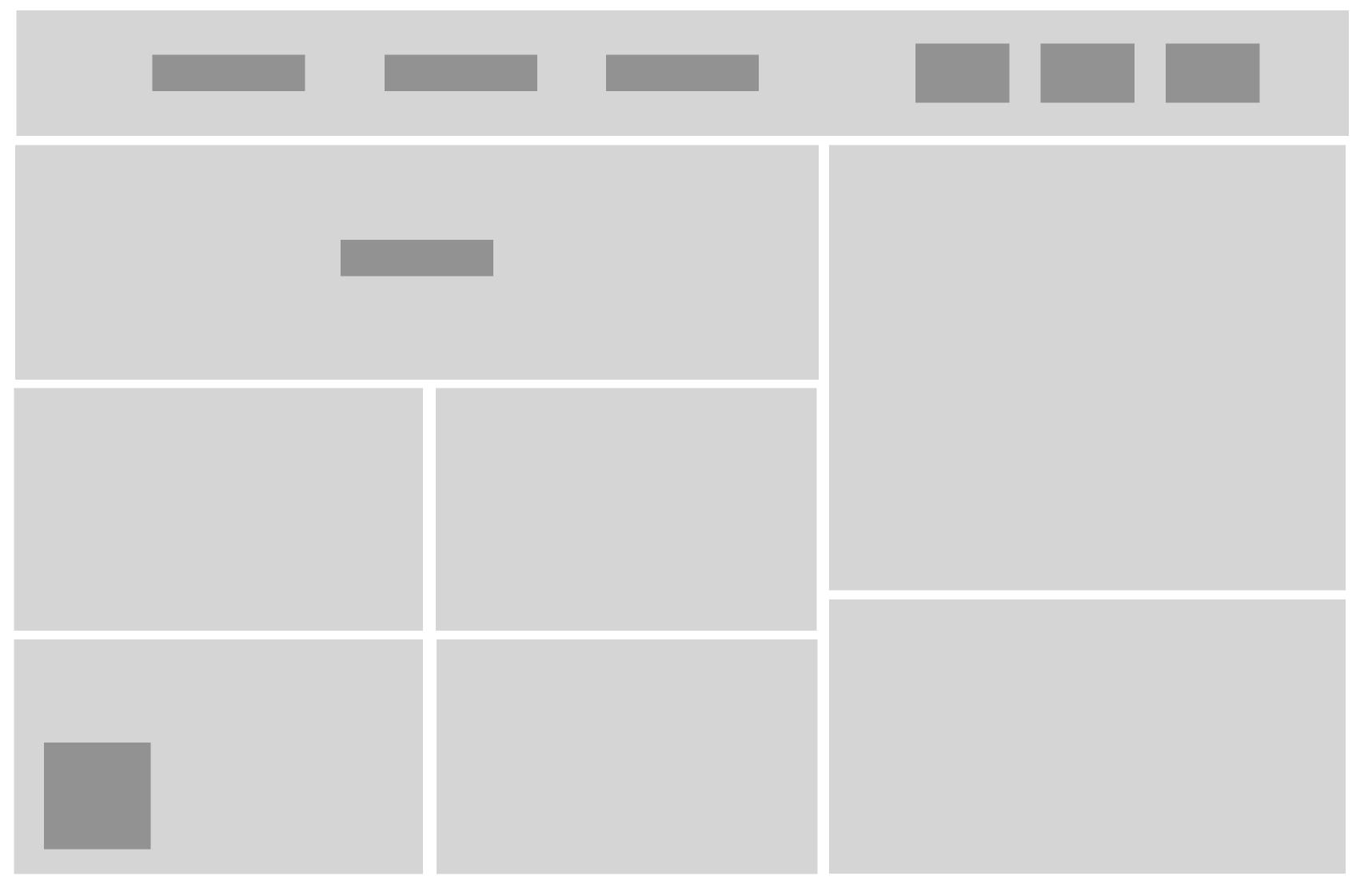


Tested three interactive prototypes. These are screenshots.



Part 5 Ul Approach

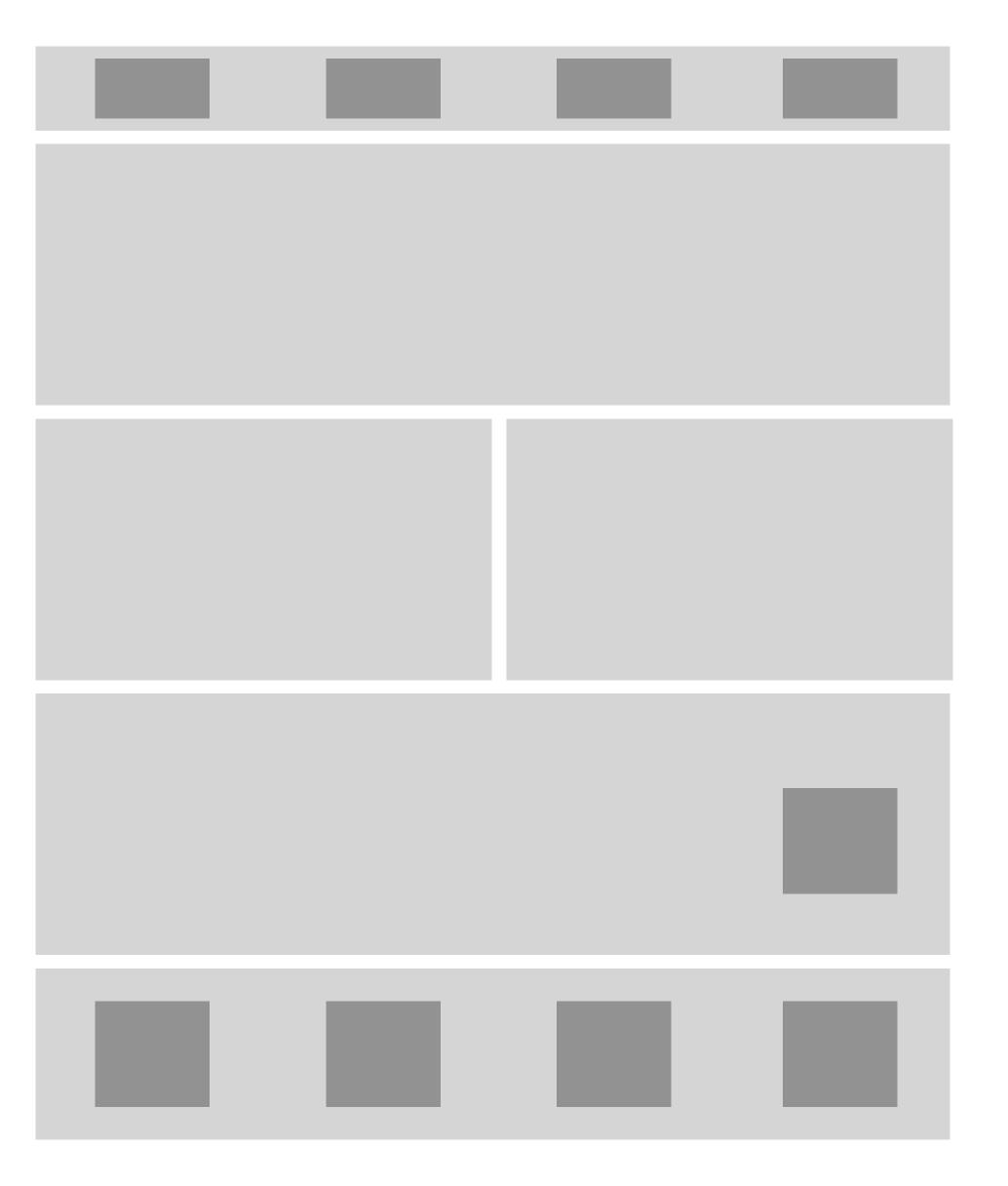
UI DESIGN



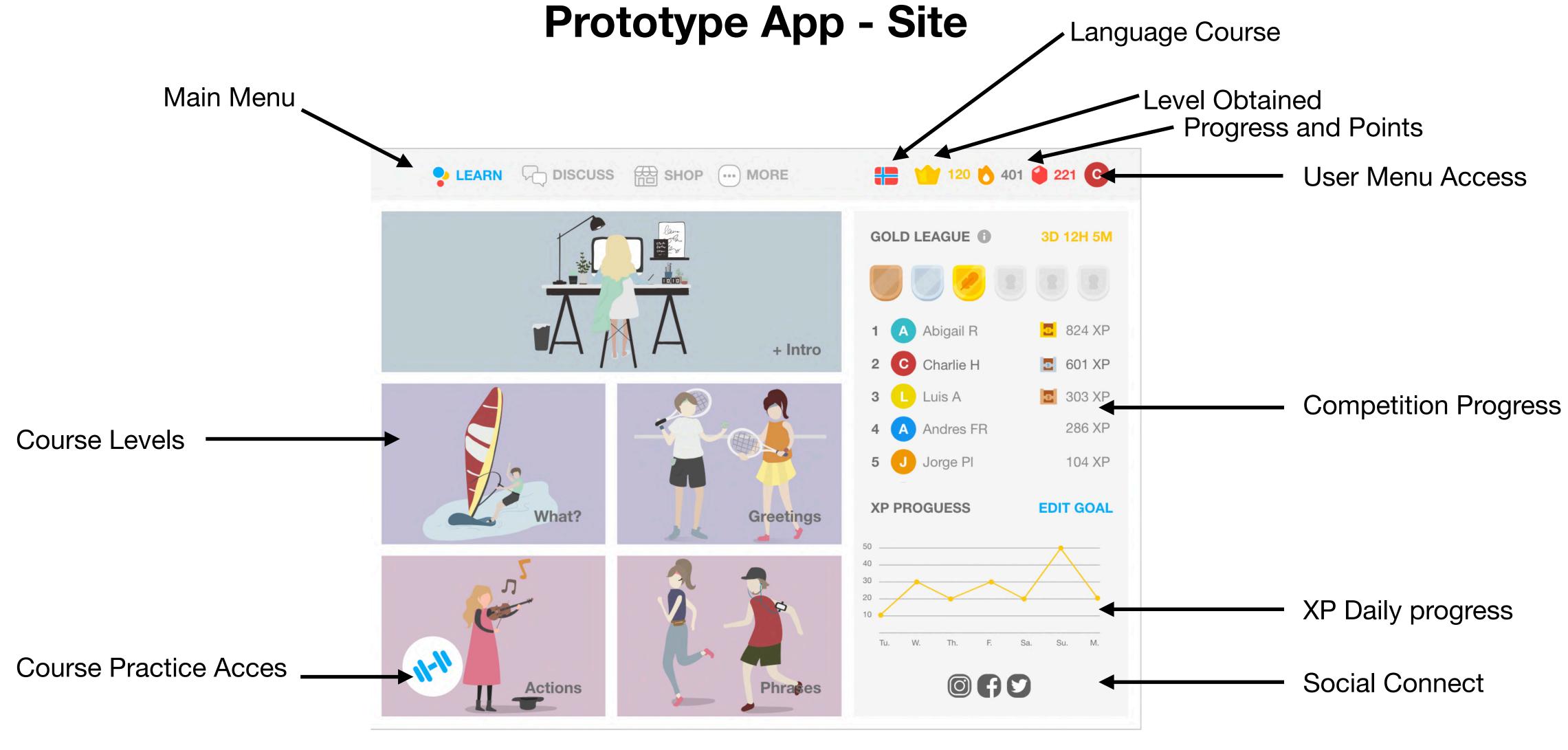
Structure of the app website, developed by divisions and sectors

Tablet App

UI DESIGN



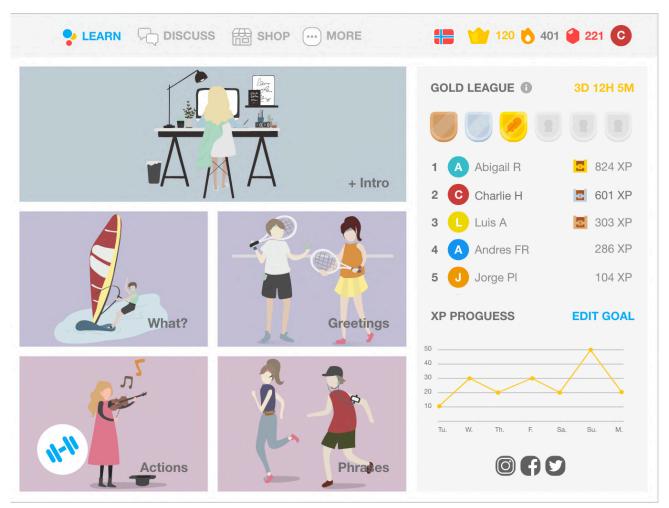
Structure of the Mobile app, developed by divisions and sectors



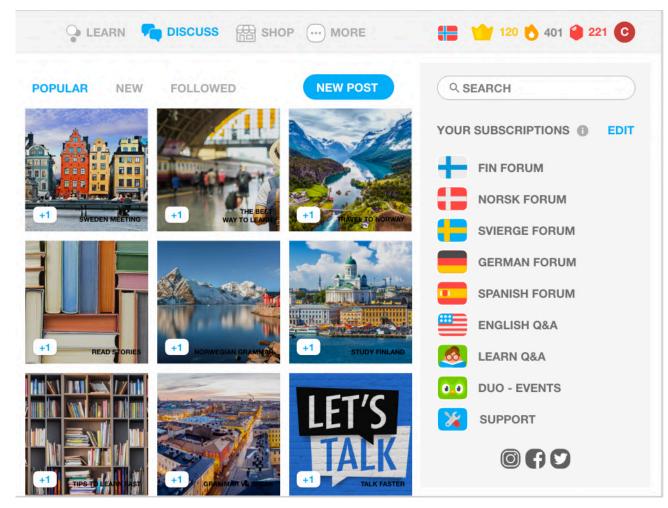
Home Page

Prototype App - Site

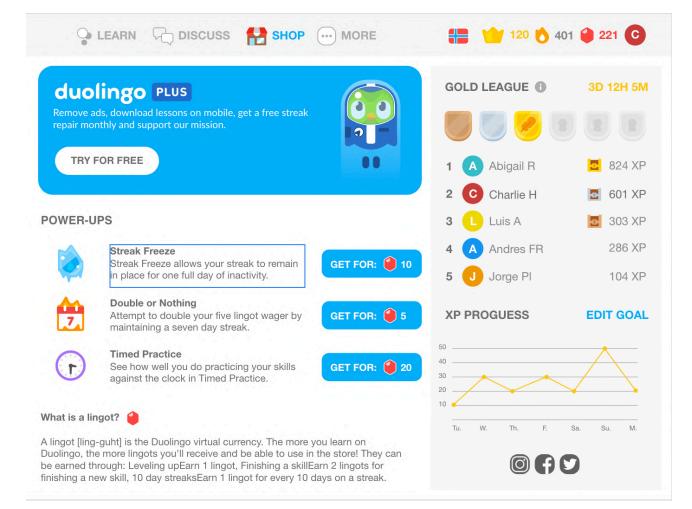
Home Page



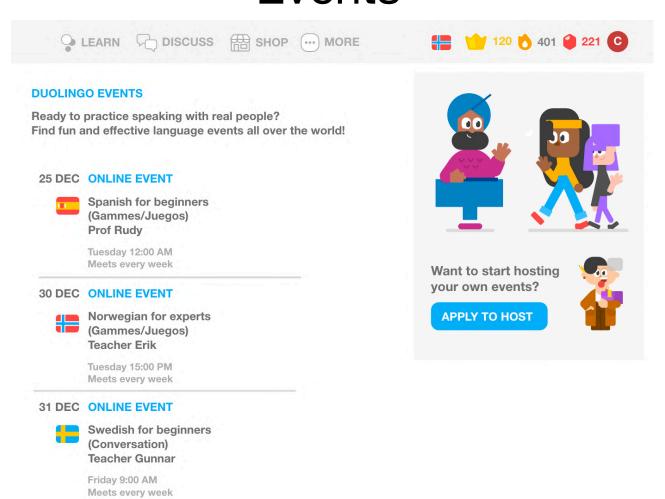
Feed News



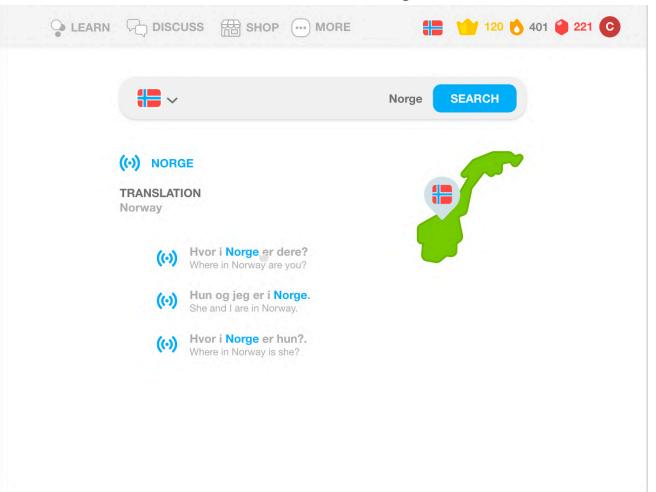
Store



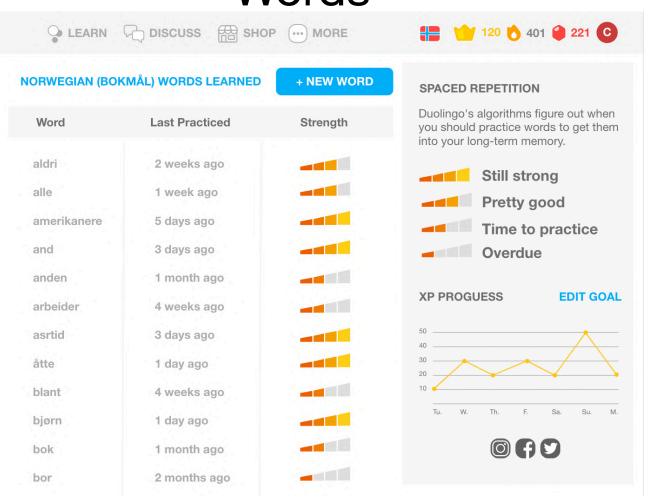
Events



Dictionary

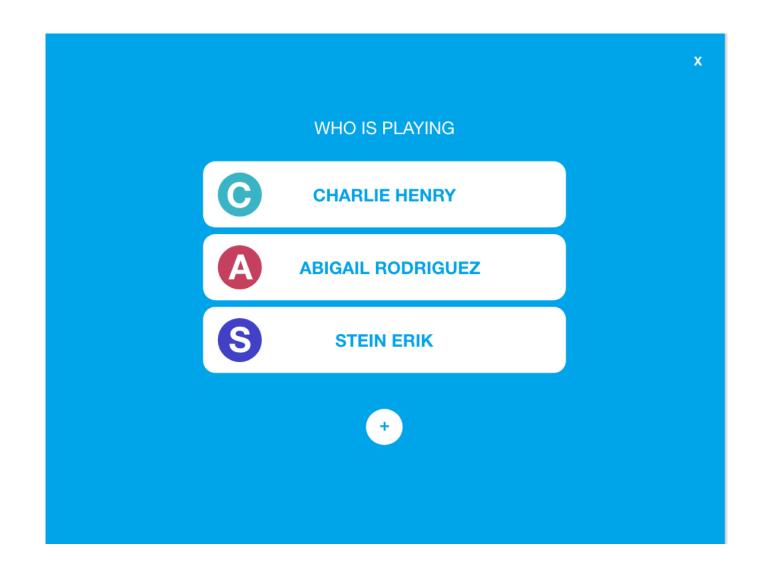


Words

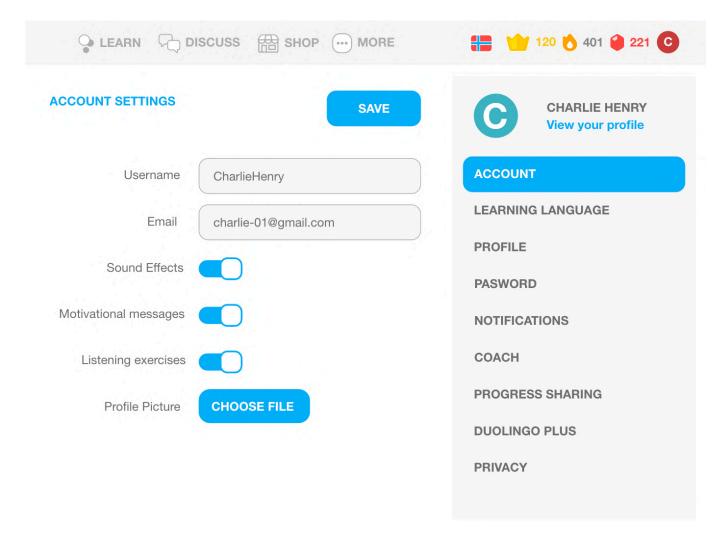


Prototype App - Site

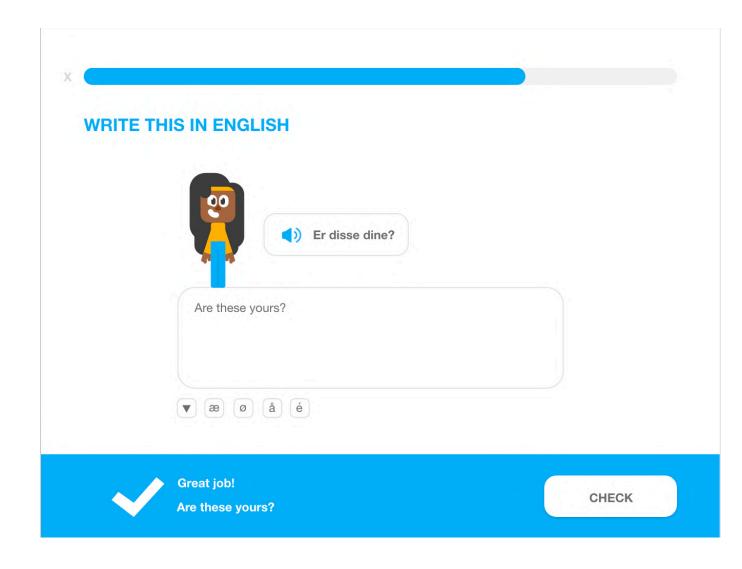
User Interface



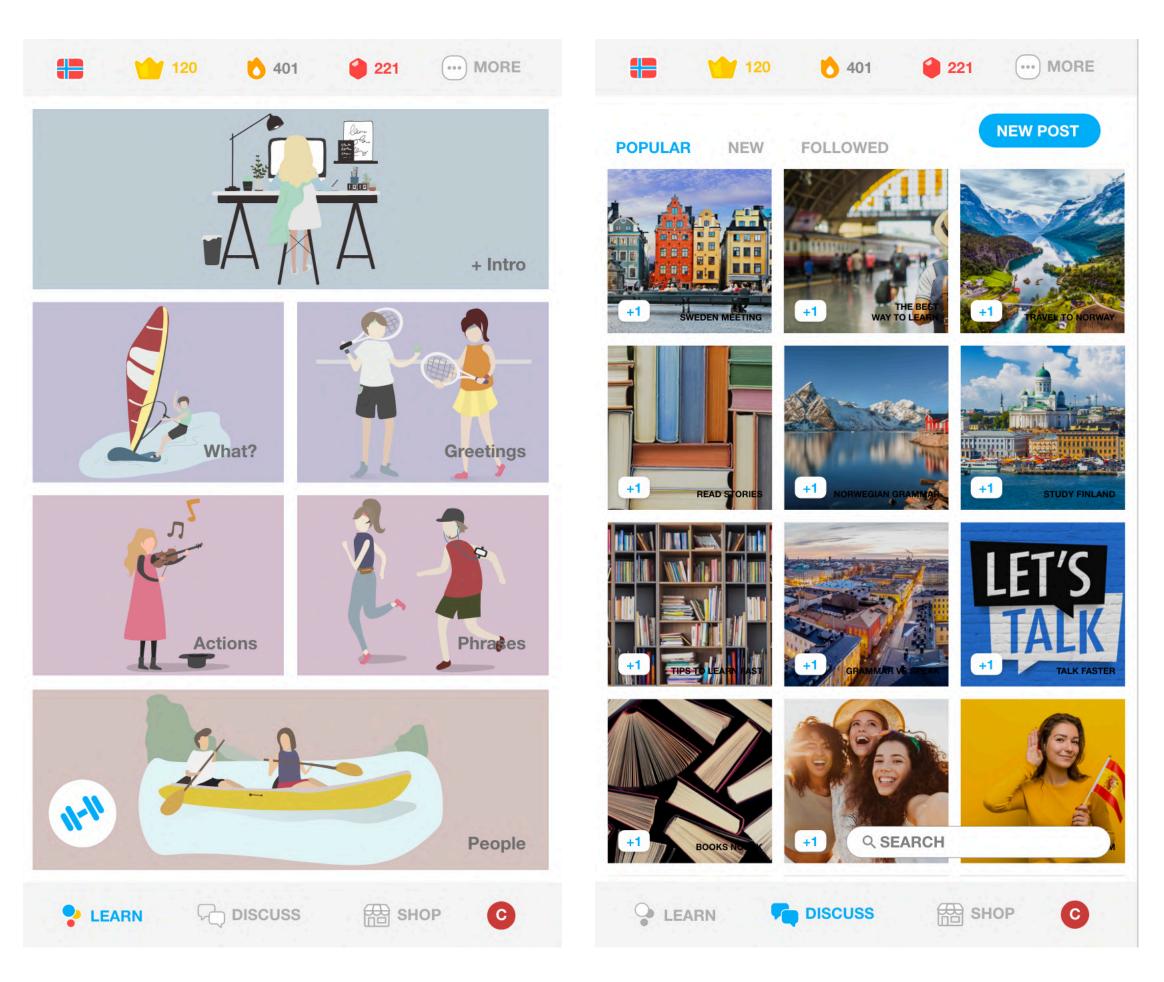
User Settings

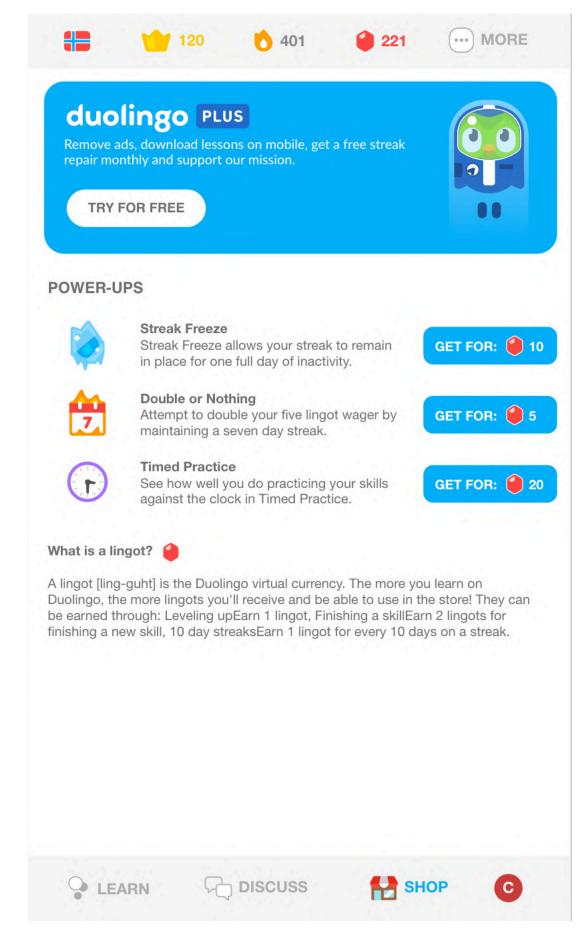


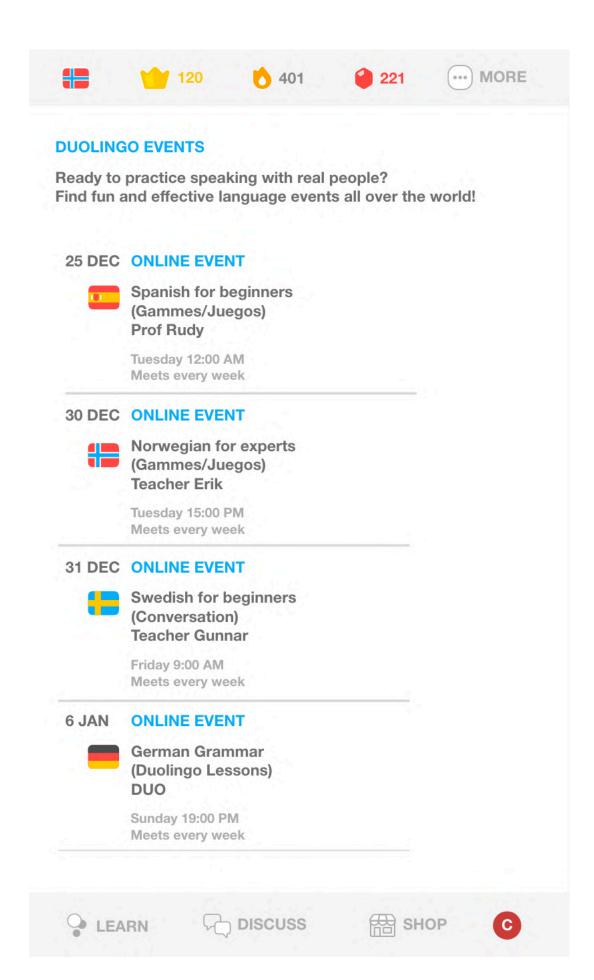
User Course



Prototype Mobiel App







Home Page

Feed News

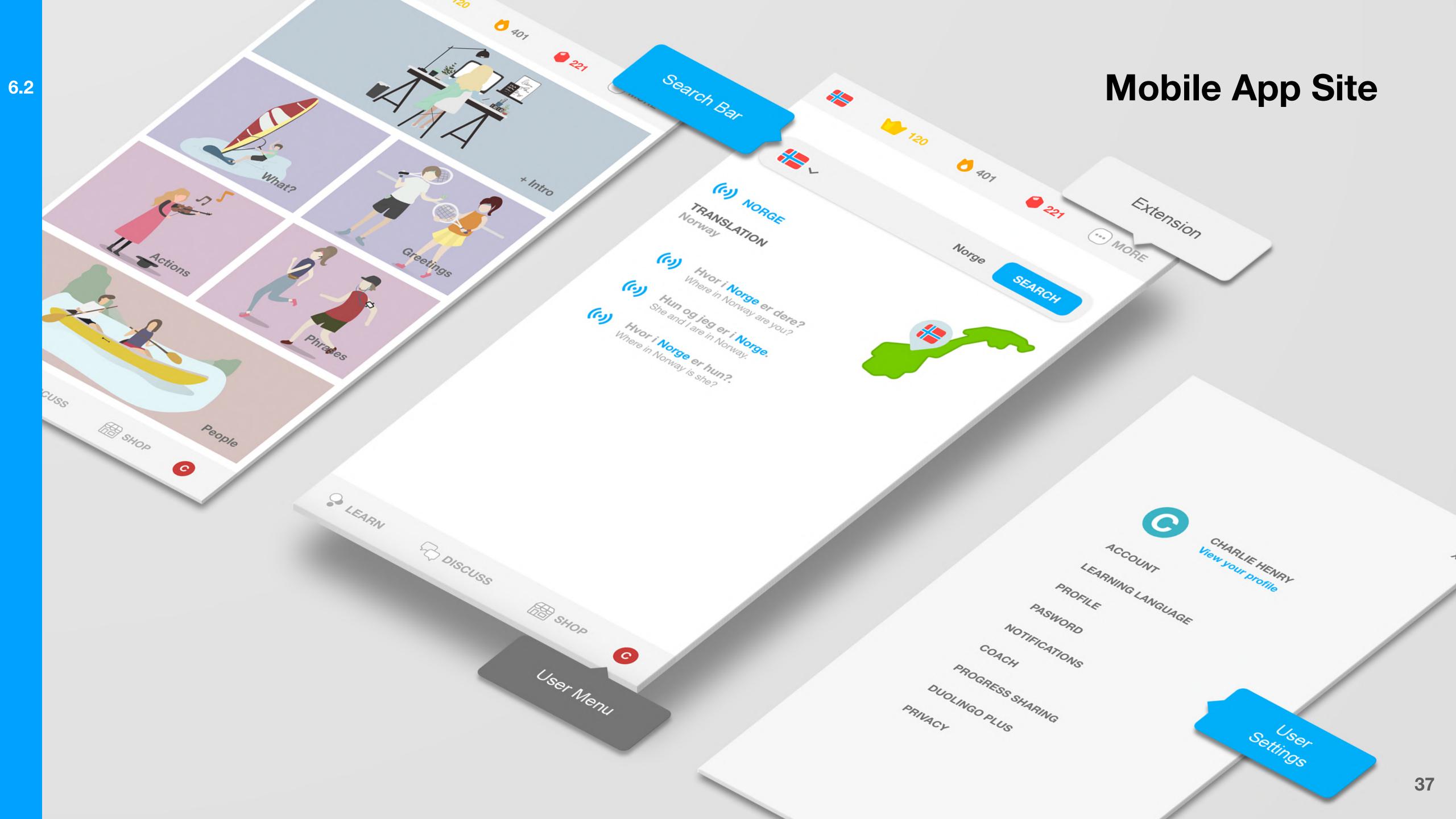
Store

Events



Part 6 Final product





Conclusion:

The primary goal of any business is to increase its sales and increase the growth of the business. UX/UI Design plays an essential role in achieving this goal. The UX/UI Design of the application improves the user experience and customer satisfaction that ultimately helps increase the number of users of the specific application. With users having lots of choices and alternatives for the products and/ or services you are offering them, the span of time you get to grab the attention of your users is quite less and you have to hit the bullseye in this short span of time. The UI and UX Design help to win the consumers' confidence and make them use your application or website providing them what they are looking for. The number of consumers you are getting on your website/application can measure the success of the great UI and UX. For a start-up or a small venture, the importance of UI and UX Design becomes even more crucial as the first impression lasts long and using UI and UX designing can make or break the brand recognition.

Key components of UI/UX design:

- Information Architecture
- Interaction Design
- Usability
- Wireframing
- Visual Design