StuMi - Jeremy Kwok, Michelle Piong, Wonjong Park
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Target Ship Date: TBD

NOTE: ANYTHING MARKED WITH (M) MEANS MAYBE

Components Map

Design

Backend

Frontend

Database (SQLite)

User {Username}:
- Level
  - Amount of prestige needed to advance to next level
- Achievements
  - {Achievement 1}
    - Obtained?
    - Amount of points needed to advance to next level
  - {Achievement 2}
- Animals
  - {Animal 1}
    - Animal Name
    - Animal Species
    - Animal Level
    - (M) Animal Sex
    - Amount of books needed for animal to advance to next level
  - {Animal 2}
- Library
  - Library Zones Built
  - Decorations and Furniture purchased
  - Decorations in Use
  - Decorations in Storage
- Store
  - Items for sale

Users Table

Username	Level	Status/Last Active	Top 3 Achievements			Friends List
Germy	1	Active	A0	A1	A2	WJ, Michelle

Study Records Table

Username	Study Date	Study Start Time (24H)	Study Duration
Germy	01/13/2023	8:00 AM	3:00
Germy	02/14/2023	20:00	0:30

Page Requirements:

Title Page
- Toggle Music
- Toggle Sound Effects
- (M) Login/Logout (Unless we use AppleID authentication)

Timer Page
- Have a working timer
- Keep track of how long user studies
- Allow user to choose their study subject and how long they study for
- Detect if the user leaves the app (when they do stop timer and record time)
- Record the date and start/end times of study sessions

Achievements Page
- Show users current achievements (and how many points it took them to get there)
- Show users how many points needed to advance to next tier of achievement
- Split Achievements into different categories?
- Achievement ideas:
  - Veterancy - Total study time
  - Inclusive collaboration - How many study groups the user has made

- ○ Diversity - How many different species of animals are/have been in library
- ○ Explorer - Embark on X expeditions to find animals

Friends Page

- Display friends list (Username, Level, Buddy Note, Status?)
- Online? Studying? At their library?
- (M) Allow user to place them into folders
- (M) View friends Library

Library Page

- View Library (and all study animals)
- Bookstore section (if you click then it brings you to the Store Page)
- Tap on animal to see current level/Animal profile

Search Page

- User selects region (unavailable regions are silhouetted)
- Display searches remaining in
- User gets X searches every day OR every _____ they spend study
- (Q): Do we need to take into account sex?

Store Page

- Display current number of coins at top
- Library Expansion
- Decorations/furniture
- Rename tag (for username)
- (M) Animal outfits

Profile Page

- Display user's current level
- Top three achievements (or whichever three they want to display to the world)
- Total Study time (and a link for study history)

Settings Page

- Turn Music On/Off
- Turn Sound Effects On/Off
- About Stumi
- Help/Support
- Notifications

- Account Information (should display username, email, Time Zone, etc.)

Currency Exchange Rates

Level	Coins (per min)	Books (per min)	
1	X	Elementary:	A
		Middle:	B
		High:	C
		College:	D

Should we change how many coins a user earns per minute?
Products to boost coin production? (could be unlocked at set levels)

Priority List:

1. Timer
2. Settings
    a. User created subjects through @AppStorage
3. Achievements
4. Library
5. Friends
    a. Do we want to give the option to view the library of the user's friends?
6. Search
7. Store

Remaining Questions:
1. How do we want to store data? Locally or Online?

Locally		Online Database	
Pros	**Cons**	**Pros**	**Cons**
- Easier to access	- Unbacked up data		

    a. Majority locally will be easier to access