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CS 402

Homework #2: Final Project Ideas

App Idea #1: Remote Tabletop RPG Application

Summary:

The point of this application is to provide the user with a remote way to play a tabletop RPG right from the phone. This means that the user can download this app and not need any other objects/information to run a tabletop RPG. Character creation, rolling of dice, map creation, etc. is all handled on the host phone. Ideally, other players would be able to connect and view just their own character sheet/map while the host has other data they can manipulate.

Feature List:

Character Sheet Creation -> Allows user to create a character sheet. Has set icons, but allows for addition icons to be uploaded. 3 hours.

Random Dice Generator -> Allows for a use to roll a dice of X number. Allows user to select a user to apply the dice to or just a random dice roll unattributed to a player. 3 hours.

Tactile Map -> Allows a user to create a "map" by select a square from a 16x16 grid map. The map will switch between 3 different colors so the host can create a map. 15 hours.

App Store Examples:

Adventuresmith – Free: Tabletop Monster Generator

Tabletop RPG Grid Maps – Free: Tabletop Map Generator

RPG Generator – Free: Random Tables for NPCs, Towns, Quests

Most of the app store examples seem to focus on certain aspects of tabletop gaming such as Map Generation, Plot Hook Randomizer, Monster Generator. This makes me believe that the app market is set to niche aspects of the Tabletop RPG experience without having an all-encompassing tabletop RPG app.

All of the apps were free, so it seems that the market may be more of a "freemium" play, where my app would be free with a donation spot, in-app purchases, or an "upgraded" more that allows for features, while the base game is free.
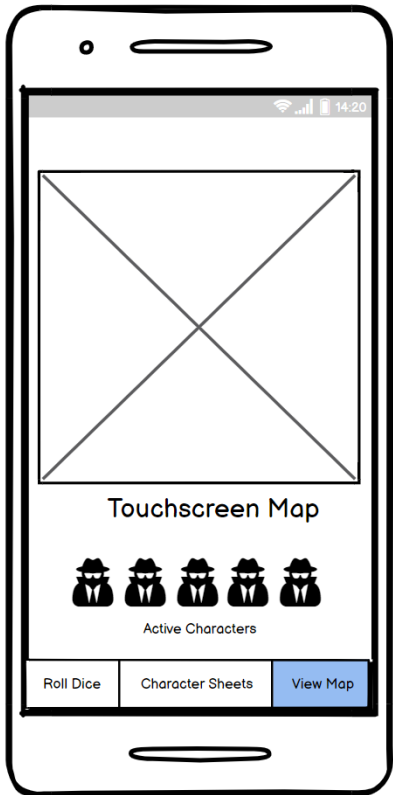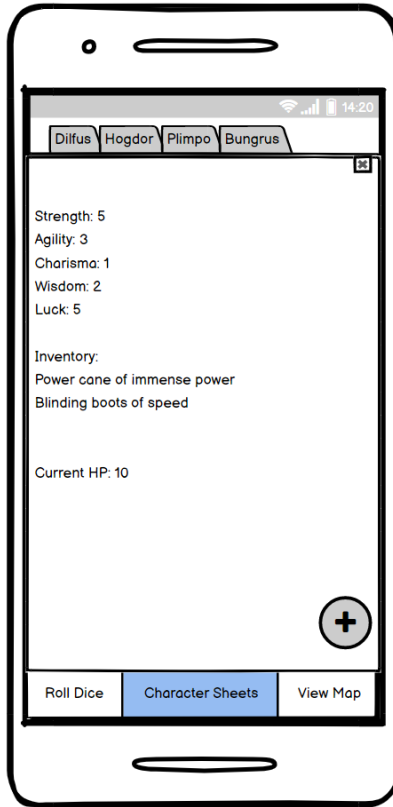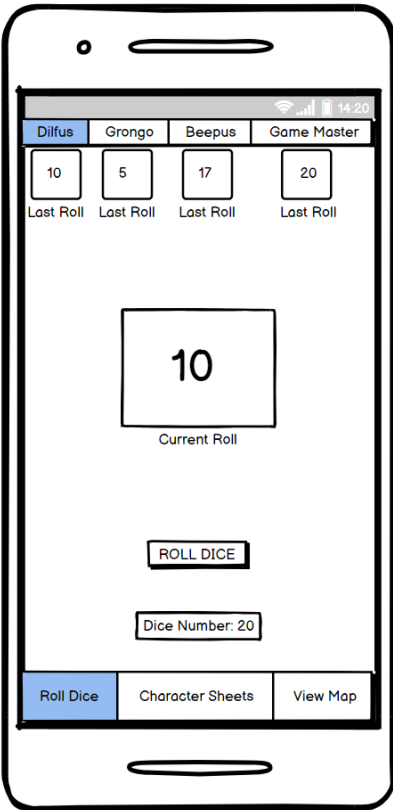
Intended Audience:

All aged users who like playing tabletop RPGs and wanted a remote option so they can play from wherever/whenever. Specifically, probably closer to 13+ users who understand how to host/join a game (similar to jackbox.tv). That being said, app will be user friendly/open for any person who wants to use the app, but target demographic are tabletop RPG users.

Price:

Free. I want this to be open for all users and don't want to hinder the experience for those who want to use/learn about tabletop RPGs. As discussed above, a V2 of the app may have a "upgraded" plan that costs something like $2.99 or so for extra features.

Wireframes On Next Page

Screen 1 — Roll Dice

Dilfus	Grongo	Beepus	Game Master

10	5	17	20
Last Roll	Last Roll	Last Roll	Last Roll

10

Current Roll

ROLL DICE

Dice Number: 20

Roll Dice	Character Sheets	View Map

Screen 2 — Character Sheets

Dilfus	Hogdor	Plimpo	Bungrus

Strength: 5
Agility: 3
Charisma: 1
Wisdom: 2
Luck: 5

Inventory:
Power cane of immense power
Blinding boots of speed

Current HP: 10

+

Roll Dice	Character Sheets	View Map

Screen 3 — View Map

Touchscreen Map

Active Characters

Roll Dice	Character Sheets	View Map

App Idea #2: Fitness Tracker

Summary:

The point for this app is to track fitness/nutrition for a user. Ideally, users would be able to track steps/have a

Feature List:

Interval Timer -> Allows a user to set an activity/rest interval timer. 2 hours

Stopwatch -> Allows a user to start a stopwatch. 1 hour

Body Progress section -> Takes picture and stores body progress pictures. 3 hours.

Pedometer -> Track steps for user. Estimate: 3 hours.

Database -> Hold information from user such as weight tracking. Estimate: 2 hours. May add more tables over time, but initial connection is going to be a majority of the time.

App Store Examples:

There are PLENTY of apps for this. Big names include:

- MyFitnessPal – Free: has calorie tracking, food categorization, activity tracking, syncs to fitbits and the like
- Samsung Health – Free: has calorie tracking, food categorization, activity tracking syncs to fitbits and the like

There are so many examples of intelligently engineered apps that this idea is already losing favor in my mind. The amount of free apps that do a lot of what I plan on doing is a little disheartening. Apps like Samsung Health and such do not have a body progress flow chart or an interval tracker, but the benefit of those two features would not be enough to negate using an app like MyFitnessPal.
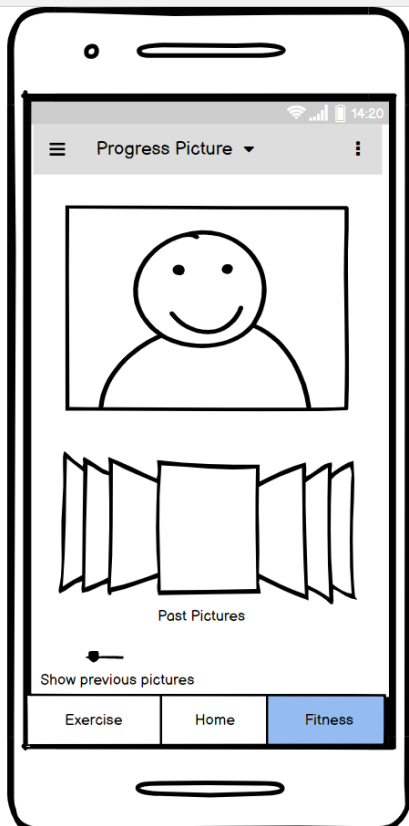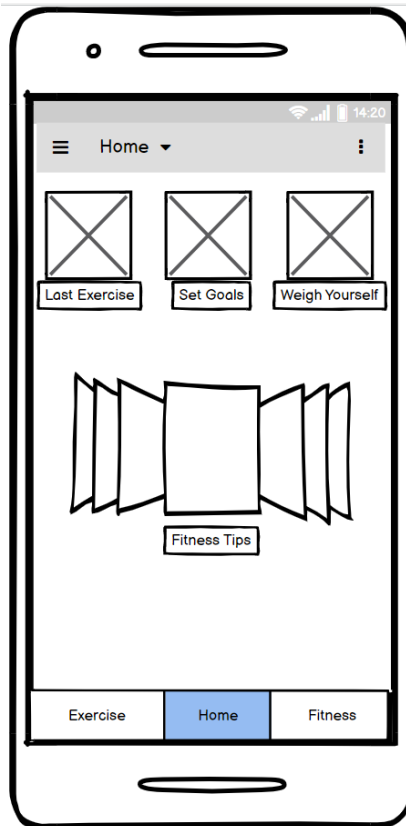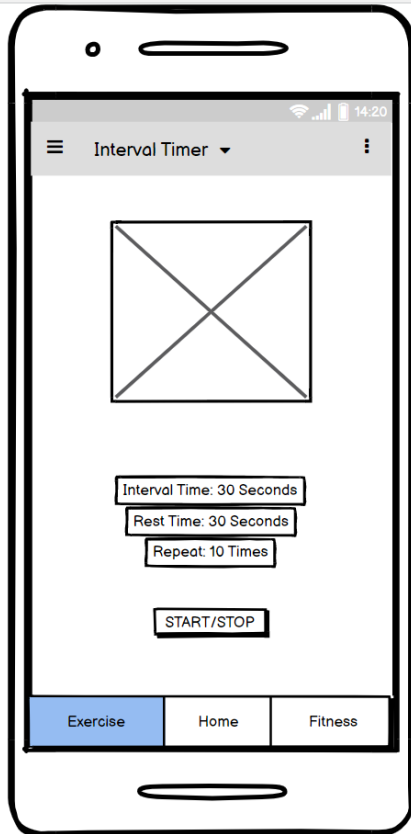
Intended Audience:

Ideally this will be used for fitness market for all ages/people. Unlike other apps, this is just for personal use and isn't attempting to make you lose weight. The goal is track weight/exercise/nutrition.

Price:

Free, but with a specific spot for donating.

Wireframes On Next Page

Screen 1 — Interval Timer

Interval Timer ▾

Interval Time: 30 Seconds
Rest Time: 30 Seconds
Repeat: 10 Times

START/STOP

| Exercise | Home | Fitness |

Screen 2 — Home

Home ▾

Last Exercise | Set Goals | Weigh Yourself

Fitness Tips

| Exercise | Home | Fitness |

Screen 3 — Progress Picture

Progress Picture ▾

Past Pictures

Show previous pictures

| Exercise | Home | Fitness |

App Idea #3: "Common Ground" App

Summary:

This application is for 2+ people who aren't sure what they want to watch. Each user will join a "room" and select between genre's, movies, etc. to limit what options they are in the mood for. After each user selects what they are in the mood for, the program will pull movies (or in later updates, music/food/nearby restaurants). Users will then Like/Dislike options that pop up on their screen (similar to Tinder/other dating apps). If all users match (or another threshold is hit that is created by the host of the room), then that option will be "matched" for users to see what they agreed with.

Feature List:

API Calls to IMDB -> Used to pull movies from a certain genre (time estimate is probably going to be inaccurate because I haven't done this before, but I'm guessing getting my APIs working as I want will take 10 hours).

"Game Room" -> Used so all users can join a specific room with friends so they can all participate. (Again, not sure how to format this yet, so this may take some time. Estimating 10 hours as well).

Like/Unlike list -> Users will have a list of movies (for example) that they will pick from. Assuming APIs are working correctly, this I assume will take a couple hours to perfect.

App Store Examples:

All app store examples I found were in relation to one user and not multiple users, so I think I may have a bit of a unique idea on my hands here. Apps that are for a single user have a list of pre-programmed "top" movies, while I think that being able to load movies from a IMDB top movies of X genre may be really helpful.

If I was not a student and had some experience in machine learning, this would be a great

experience in adding some machine learning to see popular picks per genre by all users of the app.

Intended Audience:

Intended audience for this app is for couples, groups that aren't sure what they are in the mood for. This allows for an anonymous selection of movies that people would want to watch that pulls from IMDB lists based on a genre that all users agree on. This app will be intended for anyone who isn't sure what to watch.

Price:

Free. Again, donations will be accepted, but this will be a free app (potentially with ads).

Wireframes On Next Page

Screen 1

Movies ▾
Music
Food

Would you want to <watch> this?

Rom Horror SCI-FI

👎 👍

RESET PREFERENCES

| Set Preferences | Find Movie | Partner Match |

Screen 2

Make Your Selections ▾
Matches

Sci-Fi

The Matrix

(NETFLIX)

Here are selections that everyone agreed on (so far!)

👎 👍

RESET PREFERENCES

| Set Preferences | Find Movie | Partner Match |

Screen 3

Start Room ▾
Join Room

180-938
Room Code

WJDM
Room Password

Start Room

| Set Preferences | Find Movie | Partner Match |