Project 3a Report

HobbyMate

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#g4-huynh-vimalathasan-robertson-zhou

Ken Zhou, Minh Huynh, Anushan Vimalathasan, Connor Robertson
November 8th, 2020

Academic Integrity Statement

We, Ken Zhou, Minh Huynh, Anushan Vimalathasan, Connor Robertson, declare that all of our work is our own and not taken from any other sources.

Part 1: Conceptual Model

Currently during the pandemic, it is difficult for people to learn a new hobby as they will not have access to instructors or equipment. This is the problem that we would like to solve with HobbyMate. The system will have 2 main parts. The first part is one that allows users to learn a hobby. The second part is to allow users to rent or purchase hobby related equipment.

When the user launches the HobbyMate application, they will be prompted to login to the system. From here, they can login using an existing account, or register for a new account. To have a positive transfer effect, the layout of this page will be similar to that of other apps and would allow the user to login using oauth tokens from websites like google, twitter or facebook. We will have a text entry field for username and password, a login button, and a register button. From this page, the user can login to the system, or create an account and then login.

When creating an account the screen will be set up similar to most apps registration screens where they enter a username, password, confirm the password, and put their email address. They will also be prompted to read the ToS and to confirm they have read the ToS. They are allowed to confirm only when all fields are filled and they are allowed to cancel at any time.

Once registered they are able to login. After logging in, the user will be brought to a home page. On this page, the user will be able to go to their current hobbies page or click on a plus sign to add additional hobbies. In the top right hand corner, the user will be able to view their account or personalization settings.

On the current hobbies page they will see a visual list of their current hobbies, the view of this page can be changed in the personalization settings. From that list they may select a specific hobby and go to that specific hobbies main page.

On the specific hobby page they can see more specific information about that hobby such as a writeup describing the hobby in moderate details, a section where they can go to that hobby's forums, and a section where they can view or order the equipment for that hobby.

In the forum section of the specific hobby page, they will be able to filter forum posts by latest, what's popular, etc in a common forum layout. They will be able to search for related posts in a search bar above the forum which will allow them to have easier access to the information they desire. Like most forums each post will have a like dislike ratio which is visible and may be responded to.

In the equipment section of the specific hobby page, hobby equipment specific to that hobby will be shown to the user where they are allowed to rent or buy given equipment. When

ready to checkout they will be taken to a payment page where they may fill in their payment details and checkout. This page will be set up similar to payment pages in other applications to create a positive transfer effect.

From the homepage they can access settings which will allow them to change any account details that they wish to change or to personalise their layout. They may also change their notification settings and other general settings that you see frequently in similar apps. There is also a section that will give them easy access to beginner information on this hobby as well as more information regarding how to get started with this specific hobby. Furthermore, the user is allowed to follow this hobby which then adds it to their current hobbies list, they are able to unfollow a hobby at any time.

In the homepage they can hit the plus sign to add a new hobby. From there it will bring up a list of hobbies sorted by some system popularity, alphabetically etc. You can further filter this hobby list by ensuring you only get hobbies that are specific to the group you filtered by or filtered against, some categories might be relaxing hobbies such as gardening or hobbies that involve exercise such as running.

Part 2: Functionality

The following are our functional requirements for the system:

1. Provide resources and forums to help guide users and improve their performance with hobbies
2. Allow users to explore a variety of hobbies
3. Progress tracking
4. Allow users to rent or purchase hobby equipment

For the first requirement, Hobbymate will allow users to browse resources related to their hobbies. After selecting a hobby they will be brought to a page for that hobby. Each hobby will have a section for resources, and a forum. In the resources section, the hobbies will have instructions on how to learn the hobby from different levels such as beginner, intermediate, and advanced. These instructions may include text how-to articles, video instructions on the hobbies, or a live session with an instructor to help learn. For the forum section, the user will be able to browse user created threads about the hobby from other users, as well as post their own comments or reply to others. This allows users to communicate with other people learning the same hobby, which allows users to help each other learn, and talk about the resources that we have provided.

For the second requirement, HobbyMate will provide the users with a list of hobbies that they can learn using the app. As we will not have instructions for every hobby, users will only be able to select hobbies from the list of hobbies that are available on the app. Users can either

browse through the list of available hobbies, or search for a specific hobby and see if it is available.

For the third requirement, HobbyMate will allow the user to track their progress in the hobby. When the user checks the instructions page for a hobby, they will be able to see the lessons that they have completed. This lets the user know how far into the hobby they have gotten.

For the fourth requirement, HobbyMate will allow users to rent or purchase hobby equipment. When the user selects a page for the hobby, there will be an option to view equipment needed for that particular hobby. From here, users will be able to see all the equipment that they may need for the hobby. If they click on any of the equipment, they will be brought to a page that allows them to see the price for rental or purchase. They may also choose to rent or purchase the equipment here, in which case they will be redirected to the payment page where they can input their payment information as well as their delivery information.

Part 3: Scenarios

 Story Scenario 1: Joe Mama wants to know if learning guitar is worth his time. He logs into his HobbyMate account and searches the app using the search bar function for guitar. He selects the appropriate button which leads him into the page dedicated to learning how to play guitar. He navigates to the beginners tutorial section of the app and reads the introduction to playing guitar. He decides that he will give it a try and moves to the equipment section of the app. The app informs him that he will need a guitar and recommend a guitar pick as well and shows him the prices of what is available for purchase which can be sorted. He doesn't want to invest too much into a hobby he's not sure if he'll enjoy so he decides to filter the equipment by rent availability. He settles for a good quality guitar and pick set for rent and checks out. During the checkout, he was given an option between one day shipping or regular free 5-7 business day shipping. He decides to go for regular shipping because he isn't too concerned over waiting for it to arrive and he wants to save money. After waiting 4 business days, the guitar arrives in its stated condition in a well packaged box. Joe then navigates back to the guitar tutorial section of the app to start learning how to play the guitar.

Story Scenario 2: Joe Mama wants to learn how to crochet but doesn't know how to get the proper technique down. He decides to check the crochet section of the HobbyMate app and go through the free lessons. The free lessons give them tips and guides towards learning the techniques of crocheting. He starts getting the hang of crocheting but frequently makes noticeable mistakes. He goes onto the crocheting forum of the app and looks for beginner tips that experts will usually share. He finds useful tips that improve their crocheting ability but feel

that their hand positioning is still incorrect. He notices that there are experts online that are available to consult with currently but require a premium subscription. He pays for a premium subscription and requests a consultation with an expert. The expert accepts and sets up a time where they are available to help. The time comes and they meet up to figure out where issues are occurring. Both Joe and the expert turn on their webcam and the expert watches Joe crochet while pointing out issues with posture or technique and provides tips on improvement.

Part 4: Interaction Design

0. Click "Learn new hobby" to add new hobby to the learning list
1. Search the app's hobby catalog for interesting hobby
2. Click on the chosen hobby to view details
   2.1. Read the description of the hobby in info page
   2.2. Check the requirements for the hobby using the app checklist
3. Get tools/equipments needed using the app progress tracking page
   3.1. Check if you already have tools and equipments needed using app checklist
   3.2. Purchase tools/equipments by browsing the list of provider from the app
   3.3. Rent tools/equipments from trusted and professional provider recommended by the

app
4. Learn and Practice using the Progress Tracking feature, user will be able to see the goal and progress everyday in the dashboard
   4.1 Set up a personal goal to achieve by setting it up in the goal bar
   4.2. Search for instructions/tutorials for specific hobbies using the app searching engine
   4.3. Follow the instructions/tutorials provided by the app
   4.4. Ask for help from other people on the app forum

Plan 0: Do 1 - 2 - 3 - 4 in that order, repeat 4 as needed.
Plan 2: Do 2.1 and 2.2 in any order, if the hobby is not interesting or unable to meet the requirements then go back step 1.
Plan 3: Need to do 3.1 first, 3.2 and 3.3 are optional. Do 3.2 and 3.3 in any order if lacking equipment/tools.
Plan 4: Do 4.1 - 4.2 - 4.3 in that order. 4.4 is optional if additional help is needed when doing 4.3. Repeat 4.2, 4.3, and 4.4 until the goal is achieved and repeat 4.1 if further learning is needed.

Part 5: Interface Design

Login screen

HobbyMate

username

password

Forgot password?

Dont have an account?

Login

Registration screen

HobbyMate

| username |

| password |

| Confirm Password |

| E-mail |

☐ READ OUR TOS pls

[Cancel]   [Confirm]

Home screen
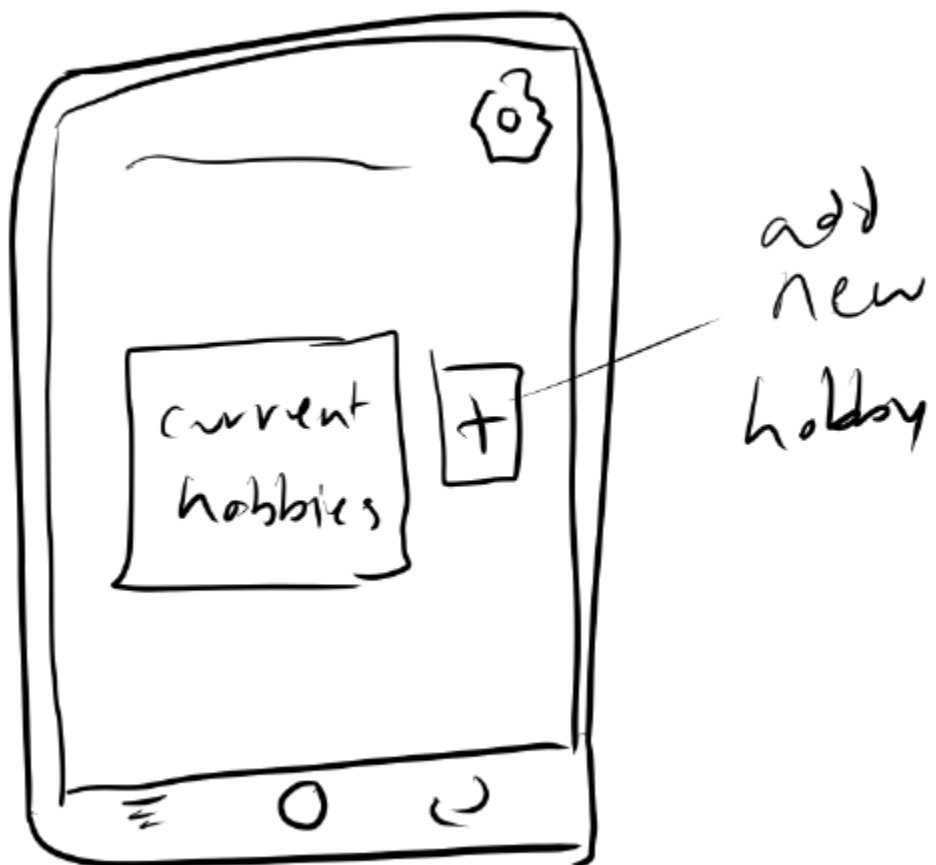
Current Hobbies
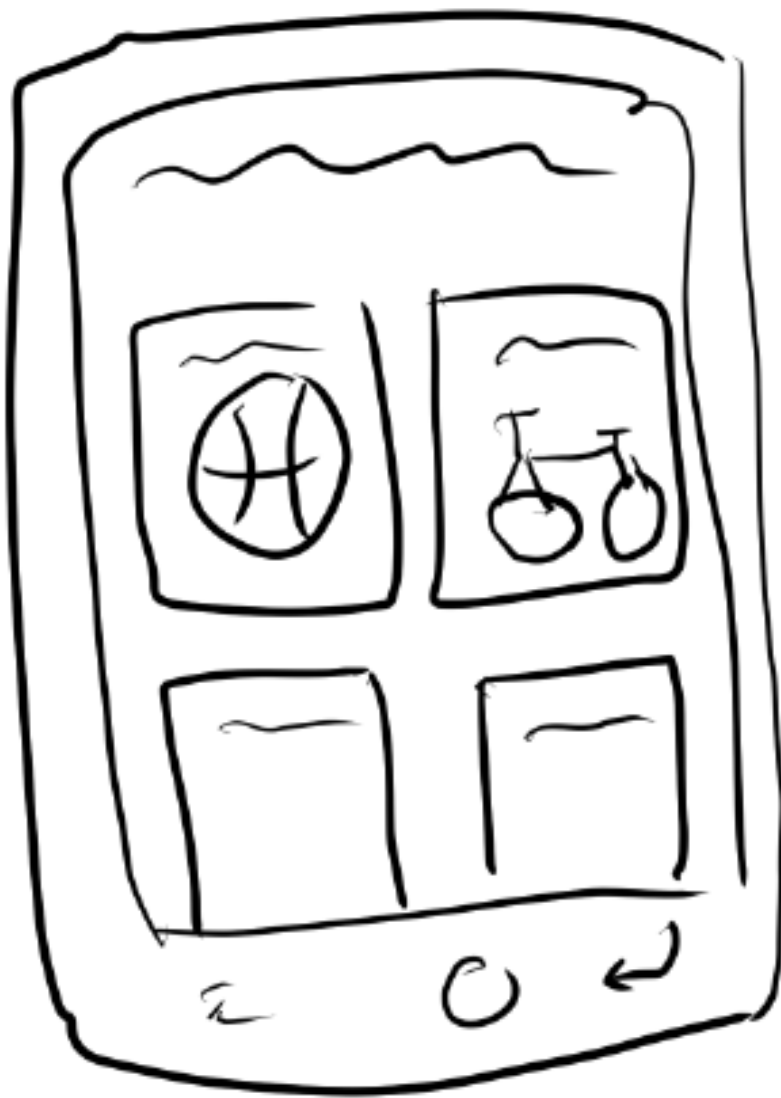
Settings

Hobby specific page

follow the hobby button

GET STARTED
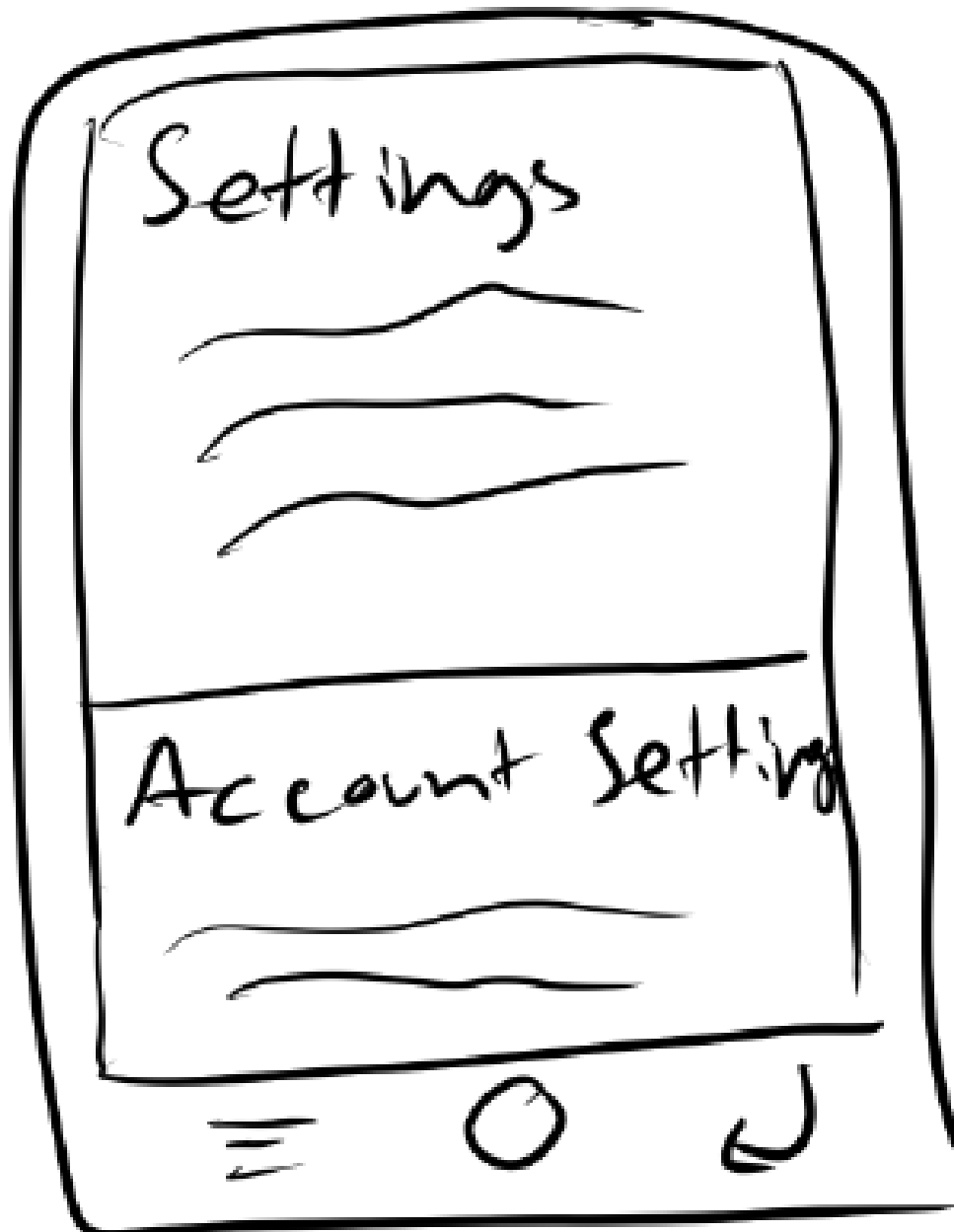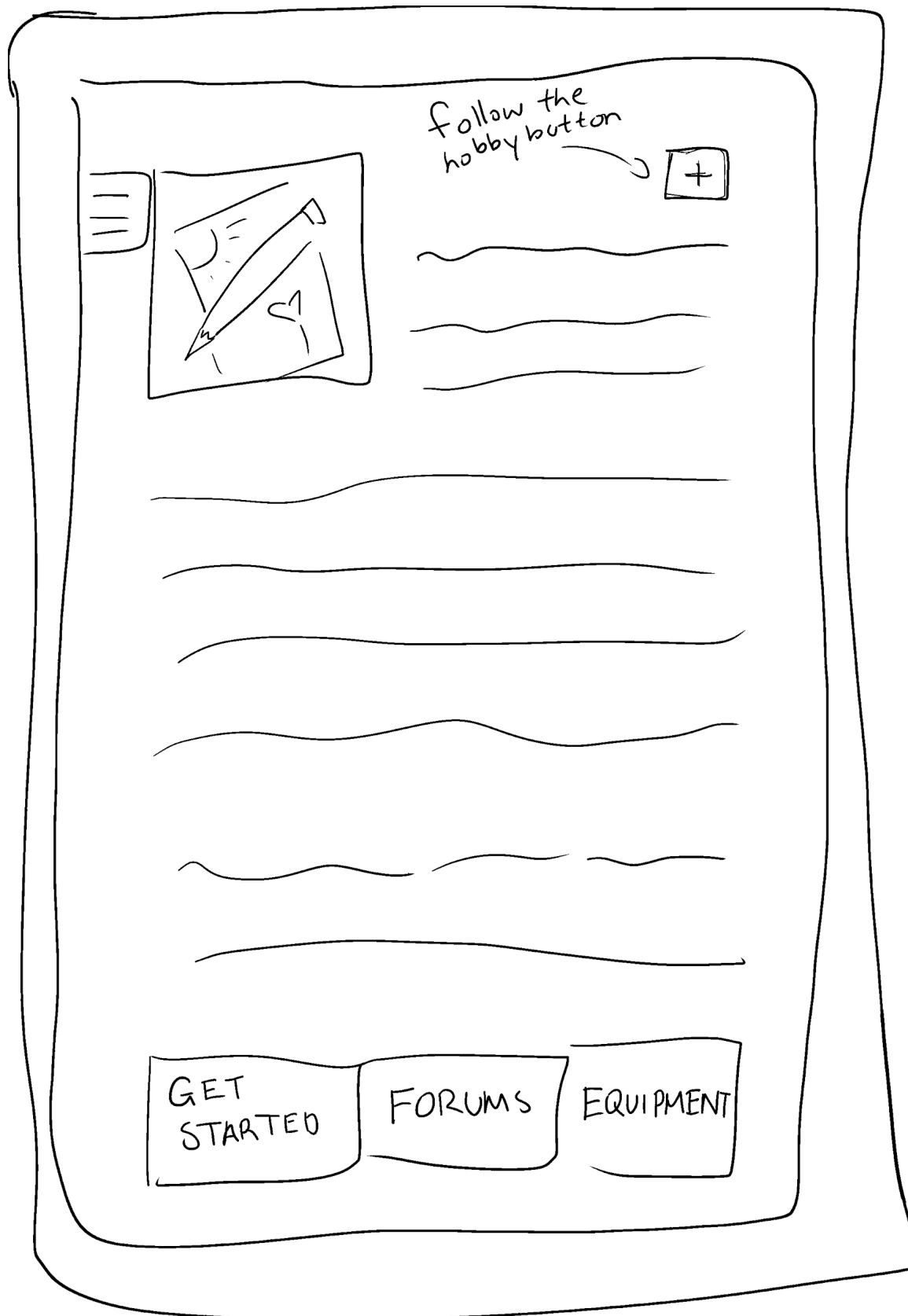
FORUMS

EQUIPMENT

Hobby list screen

Forums

Best | Hot | New | Top

⇧ 100k   ⇩ 2

⇧ 42.0k   ⇩ 69
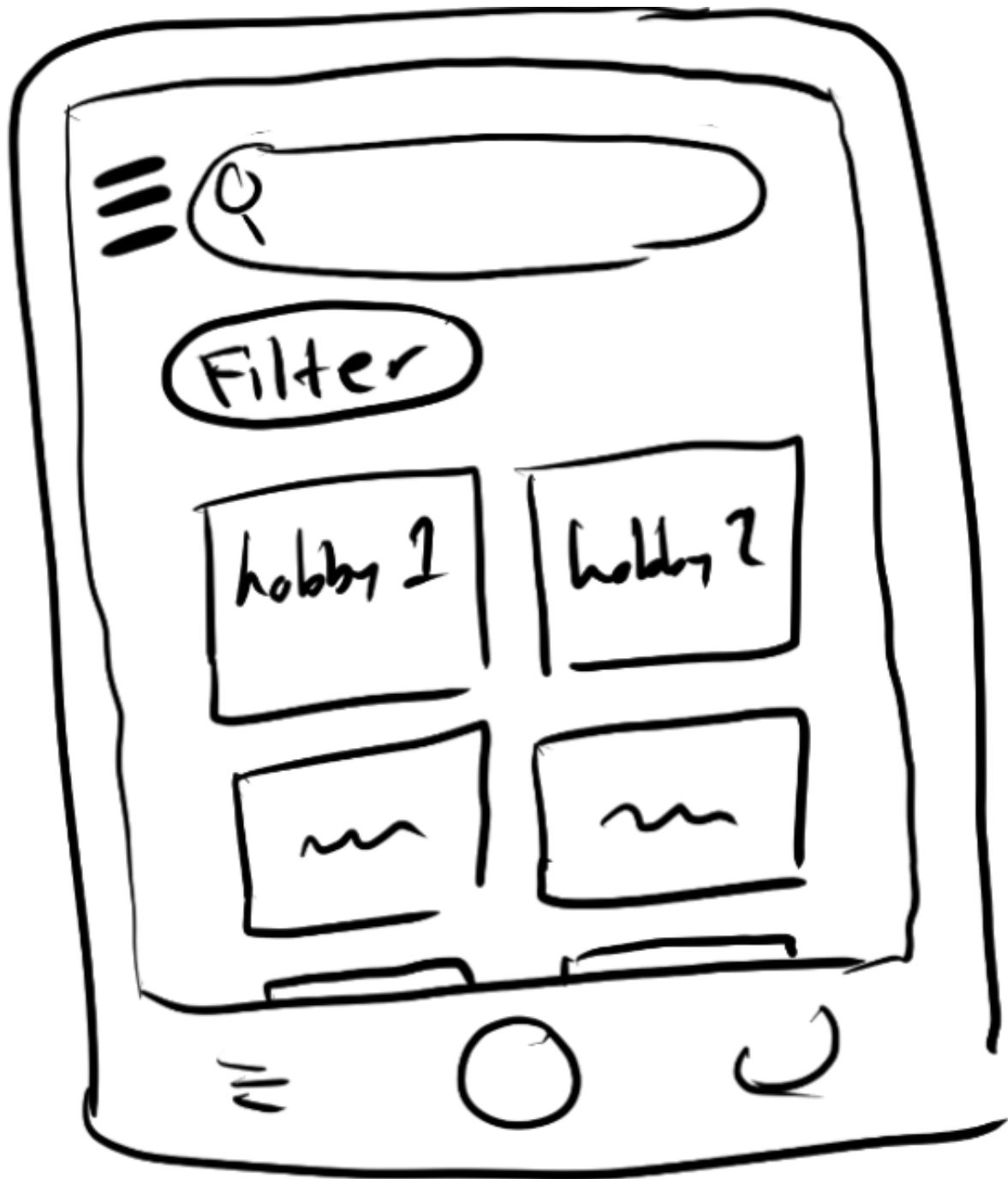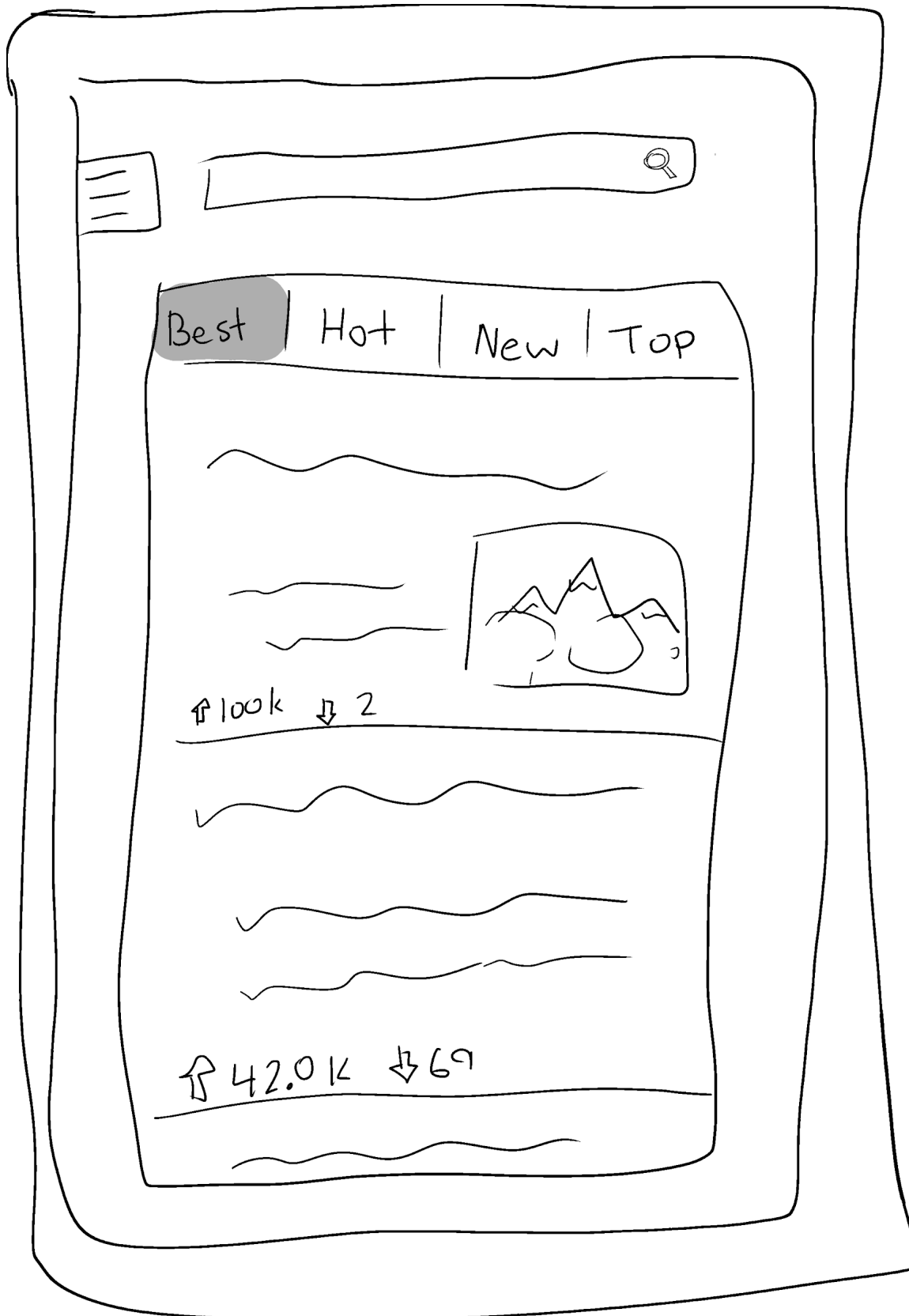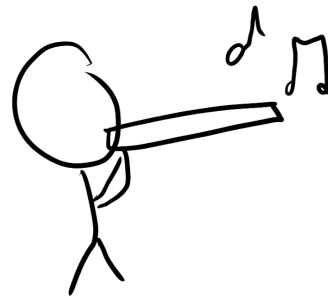
Equipment
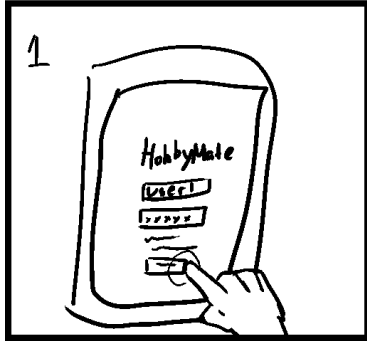
Purchase screen
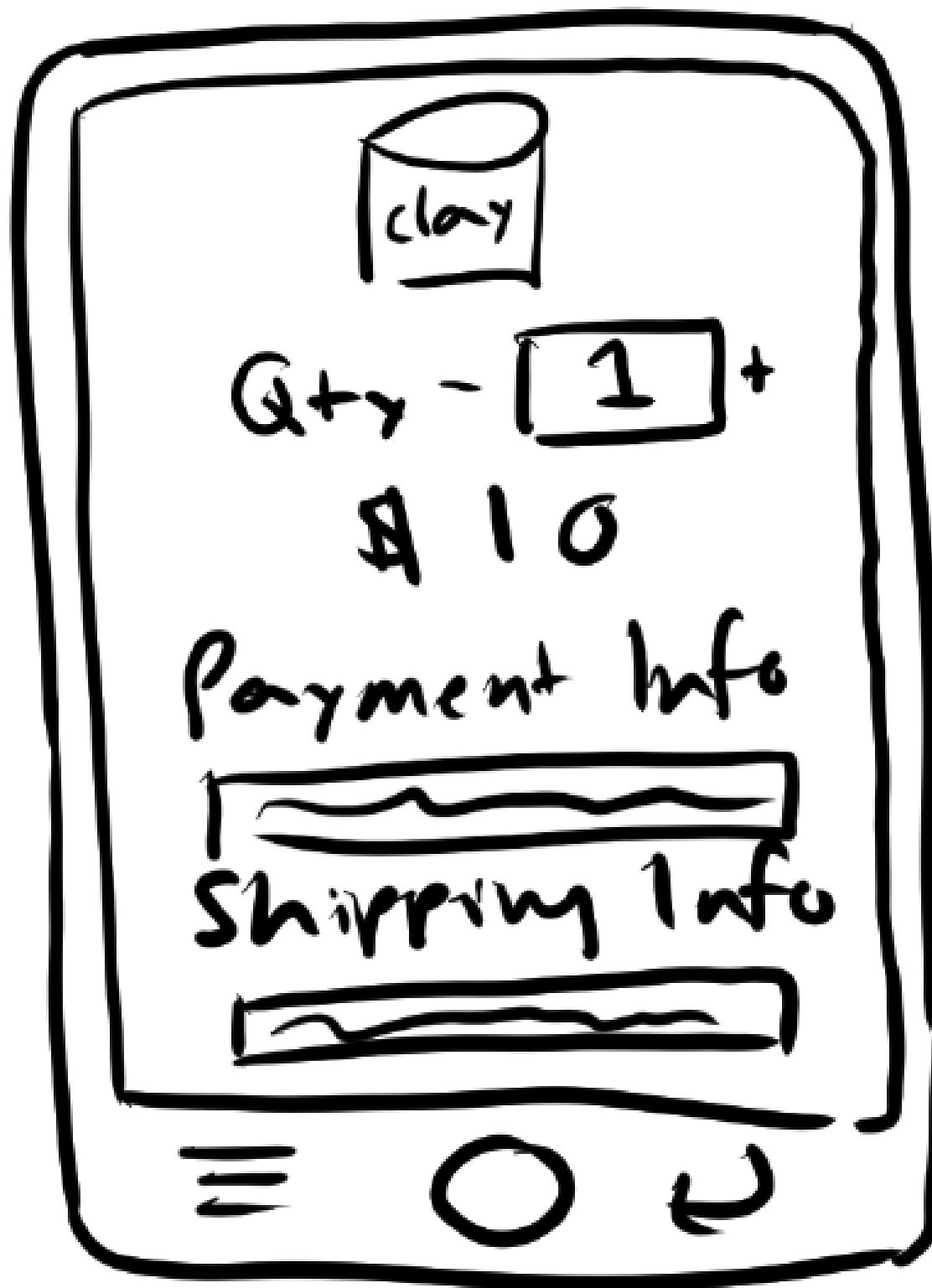
Learning how to play flute
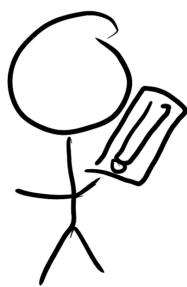
research
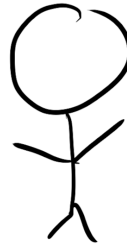
rental flute

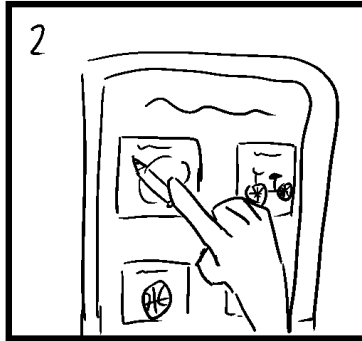watch lesson

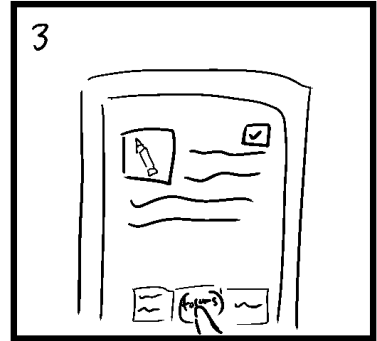Post Office

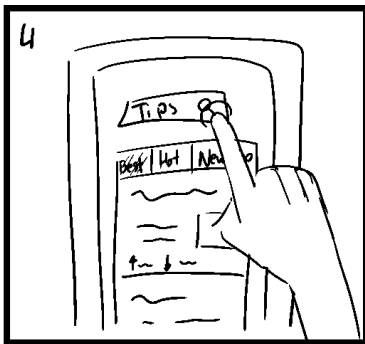flute
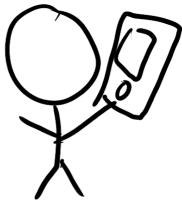
Using the forums

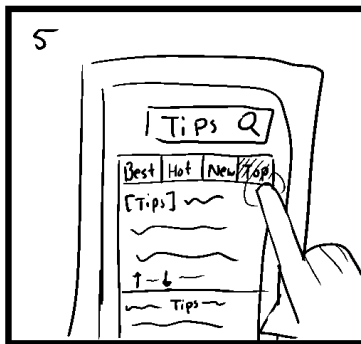
1 — login to the Hobbymate App

2 — Find the hobby you want to find the forums for

3 — Press the forums button

4 — Use the search bar to search for key words

5 — choose a sort filter

6 — Choose a post and read it

Appendices

Contribution Report

✔: Took part in

	Ken Zhou	Minh Huynh	Anushan Vimalathasan	Connor Robertson
Conceptual Design	✔	✔	✔	✔
Functionality	✔	✔	✔	✔
Scenarios	✔	✔	✔	✔
Interaction Design	✔	✔	✔	✔
Interface Design	✔	✔	✔	✔
Interaction Design	✔	✔	✔	✔