2024.11.05 Formal Meeting for Report

Outline:

Before Online Meeting Prepare:

- Plan completeness situation
- User case diagram
- Quesionaires
- Sequence Diagram (Zhihao Cao, Zihan Zhou, Changhao Huang)
- Prototype （Peini She, Zixin Ding, Jinghao Liu）
- Prototype Interface Conception

Q&A:

Undo List

Next Week Work and Important Point

- Envisioned in Timeline:
- Tasks for next week

Plan

- **Time:** 2024.11.1 14:00 – 16:00 (Maxinum Time)
- **Location:** 3F – Group Study Room 10 (Library)
- **Links:** Online meeting links––Teams

- **Chairperson:** Zhihao Cao
- **Secretary:** Changhao Huang
- **Information Integrator:** Zixin Ding
- **Attendance:** Qian Zhang (Supervisor), Zhihao Cao, Changhao Huang, Peini She, Zixin Ding, Zihan Zhou, Jinghao Liu
- **Apologies of Absentee:** None

Outline:

1. last week work report (user case, activity diagram and questionaires) ---- check by supervisor
    a. use case diagram
    b. activity diagram
    c. questionare
    d. sequence diagram
    e. prototype
2. Q&A
3. details of report (write what? how write(use latex?) ? requirement?)
4. next week work plan

Before Online Meeting Prepare:

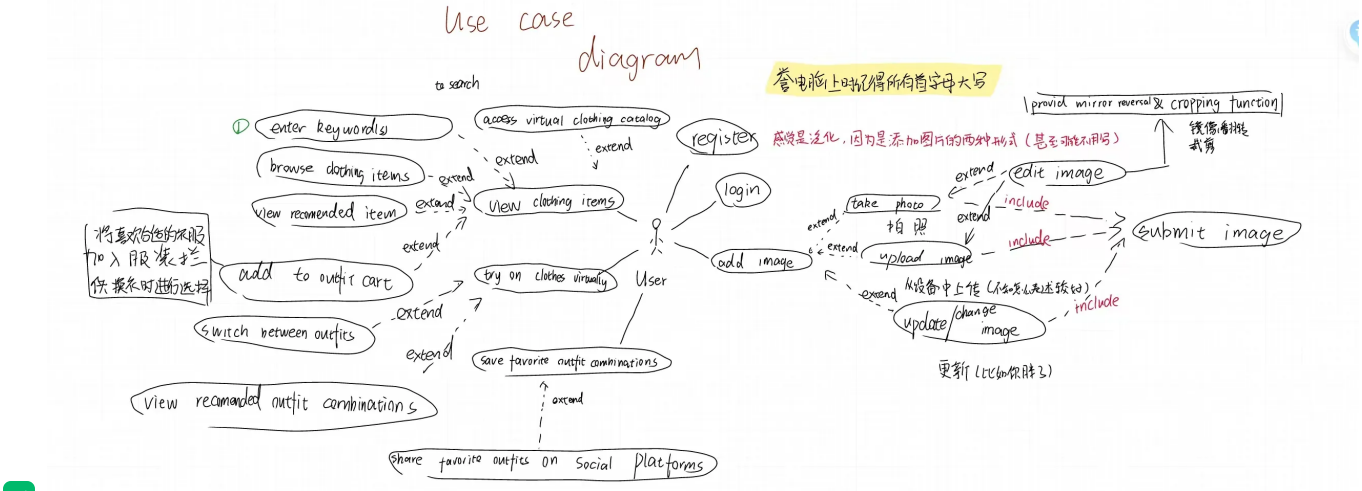
Plan completeness situation

Person(s)	Assignment	DDL	Degree	Status
Zixin Ding, Changhao Huang Zhihao Cao	Finish Use Case Diagram	2024.10.24	urgent	Finish
Zhihao Cao, Zixin Ding, Peini She, Changhao Huang	Activitity Diagram	2024.10.25	urgent	Finish
Zihan Zhou, Jinghao Liu	Questionare	2024.10.25	urgent	Finish

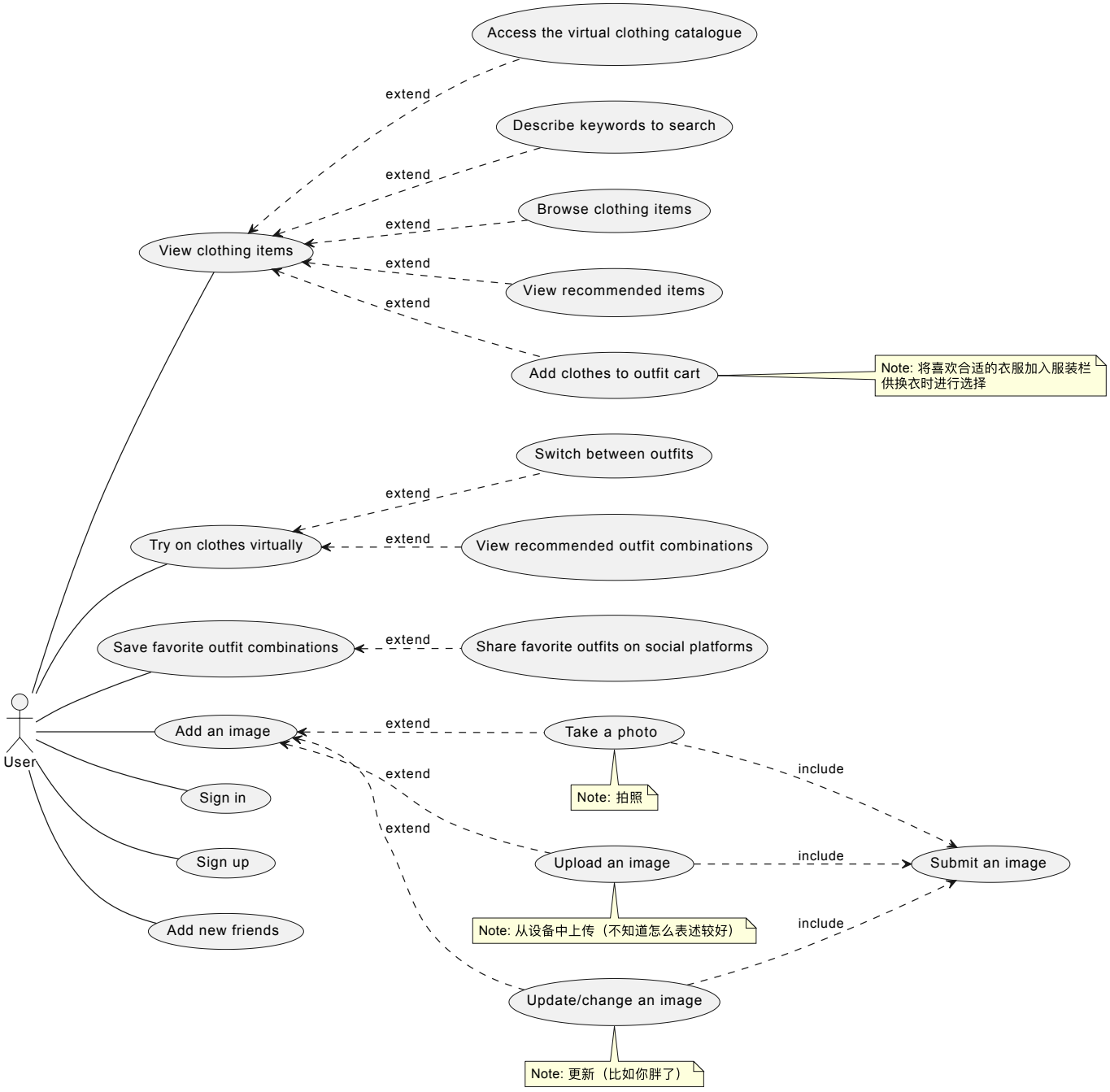
Person(s)	Assignment	DDL	Status	Result

Peini SHE (prototype leader)	Prototype : Try on	2024.11.8	finish	https://www.figma.com/proto/LQUS6de4UhTJhda2CwG3pM/Figma-basics?node-id=601-9&t=tHGS4V6OYOmxbLr3-1
Zixin Ding	Prototype: Browse, View Pages	2024.11.8	finish	https://www.figma.com/design/bHZVrSwxAhunPSjnd82ci0/Browse?node-id=601-9&m=dev&t=AXZZqKzj5gFdV2hW-1
Jinghao Liu	Prototype: Login	2024.11.8	finish	
Zhihao Cao(sequence leader)	Sequence: view clothing items	2024.11.8	finish	
Zihan Zhou	Sequence: add an image save favourite outfit combination	2024.11.8	finish	
Changhao Huang	Sequence: sign in ,sign up	2024.11.8	finish	

User case diagram

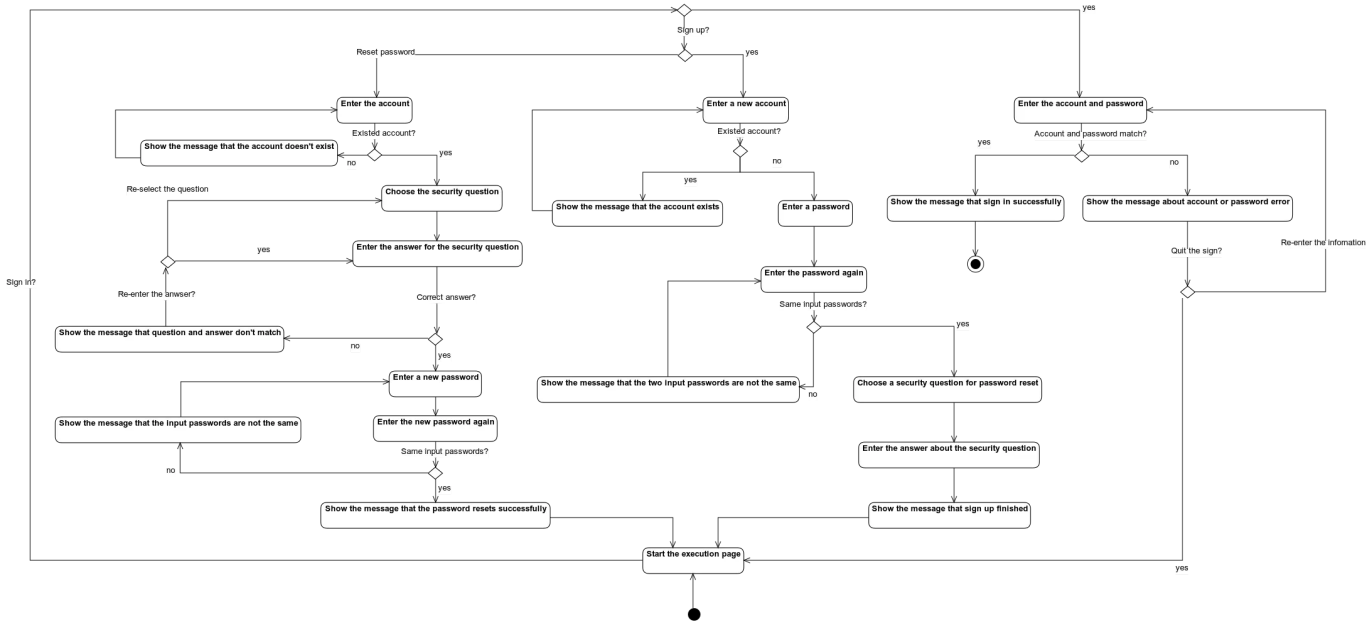


Hand Draw Version 2（by Zixin Ding)

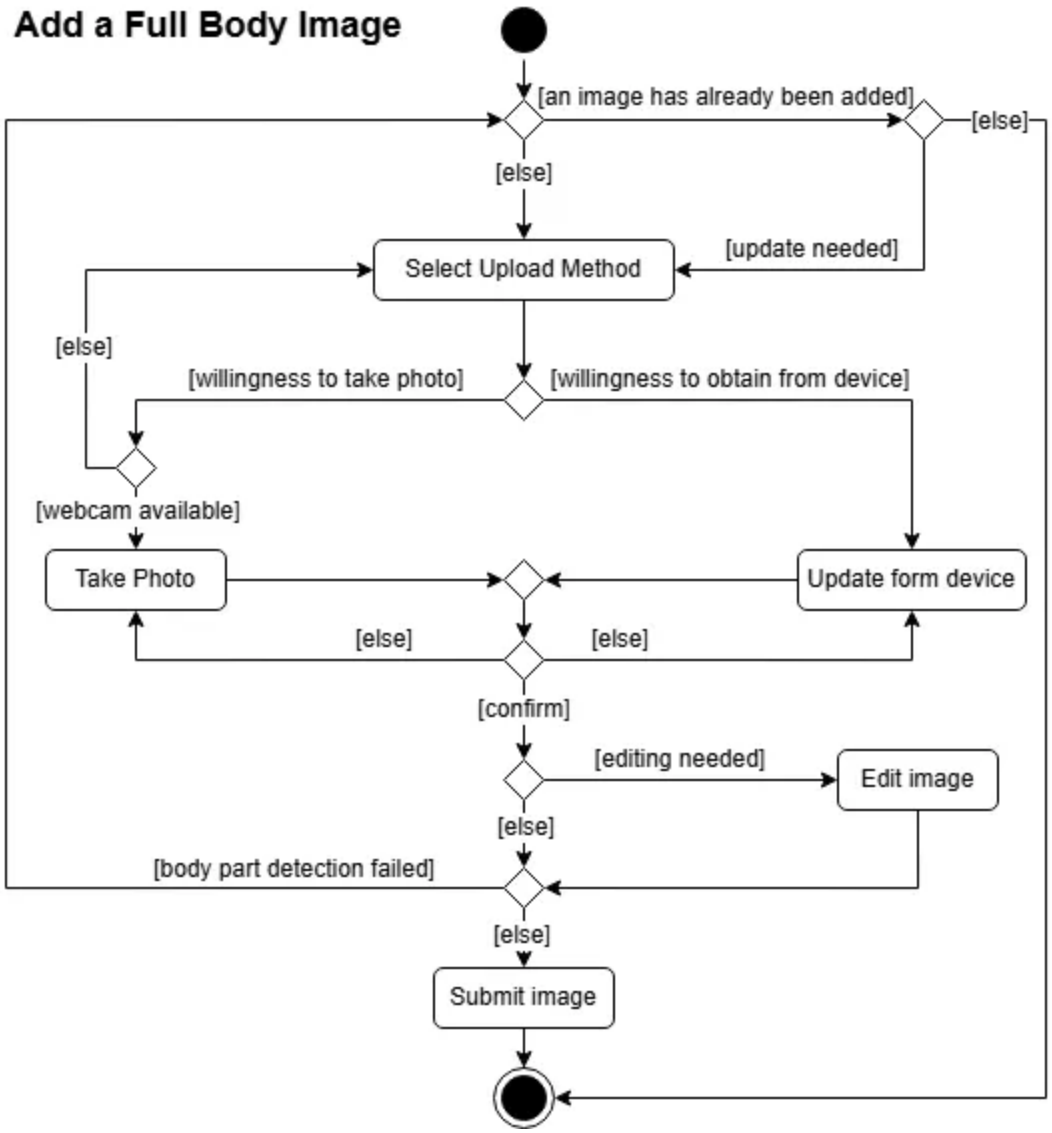


Code Version 1 (by Changhao Huang)

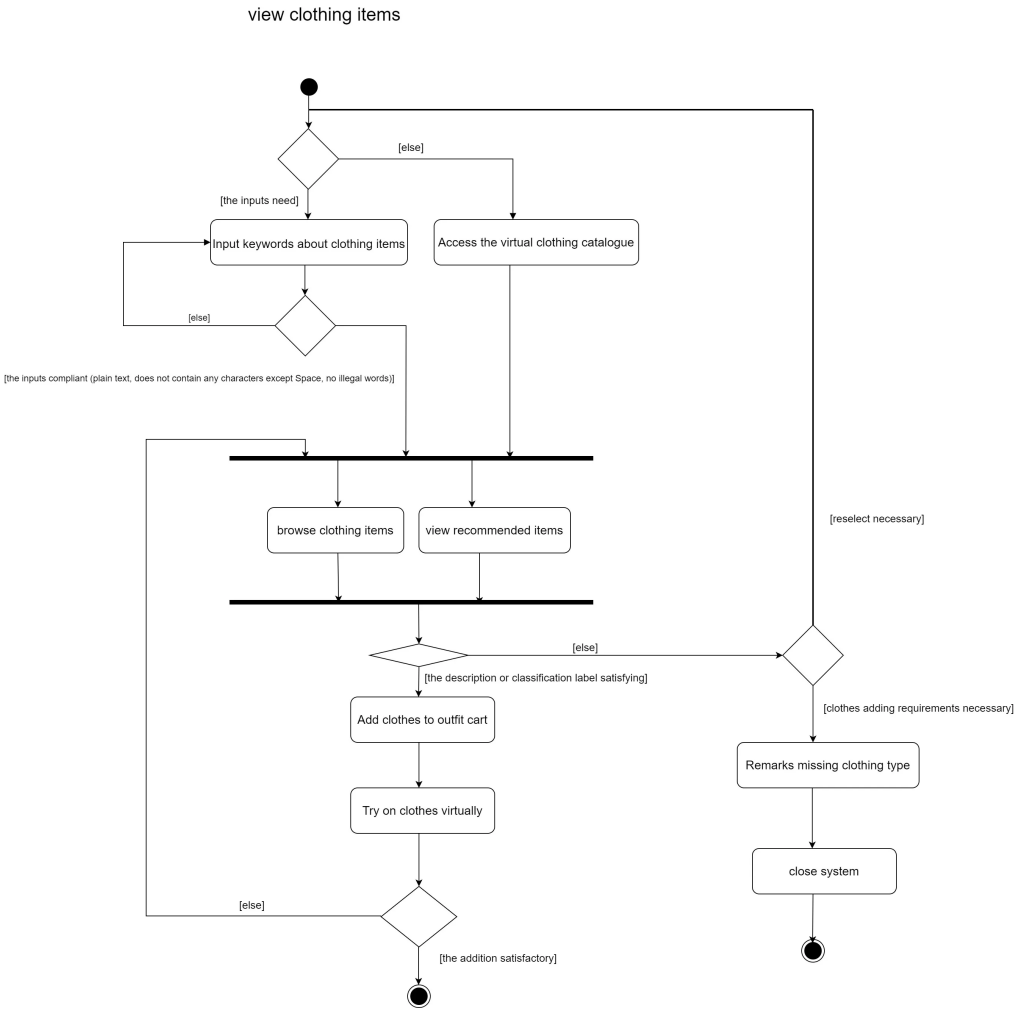
Activity diagram



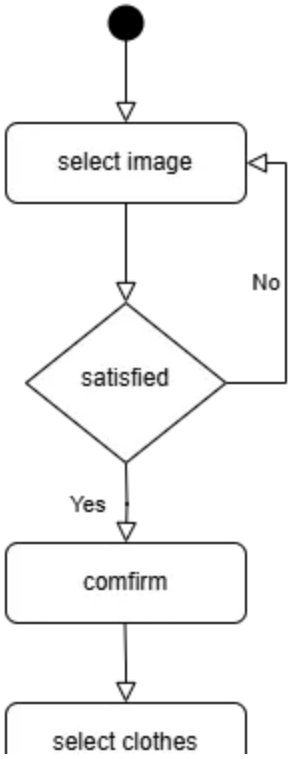
Changhao Huang (sign in/sign up)

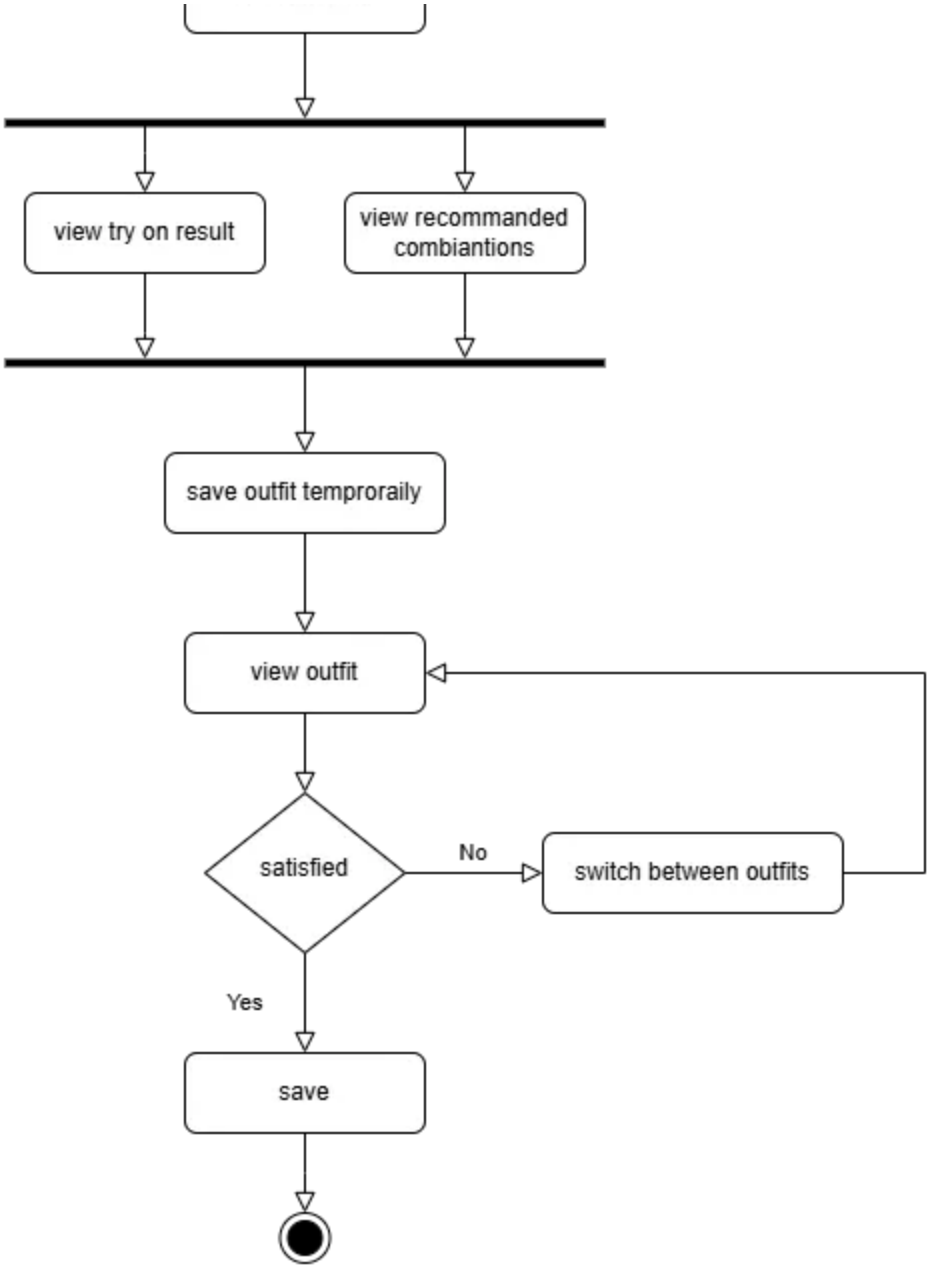


Zixin Ding (add an image)



Zhihao Cao (view clothing items)



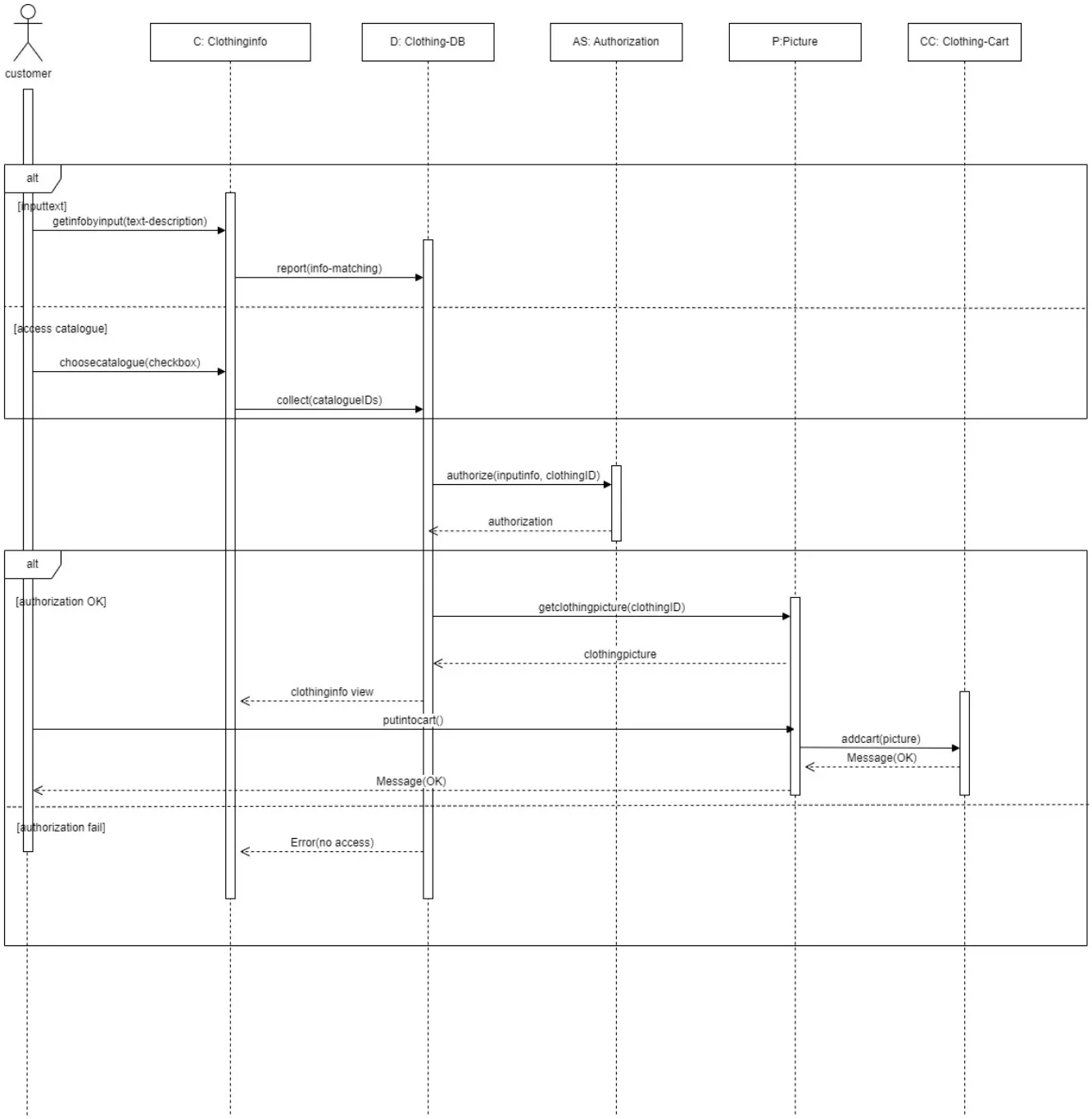


Peini She (Try on and Save)

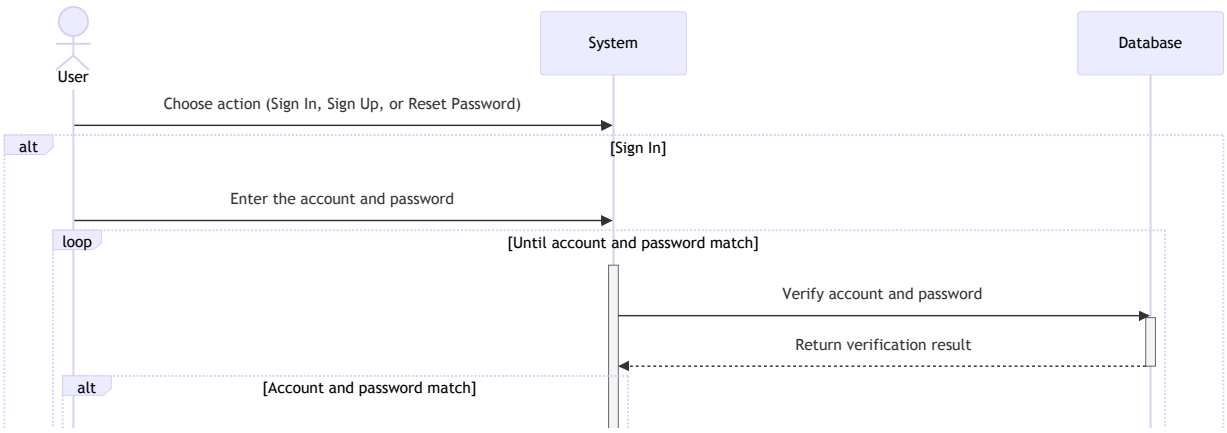
Quesionaires

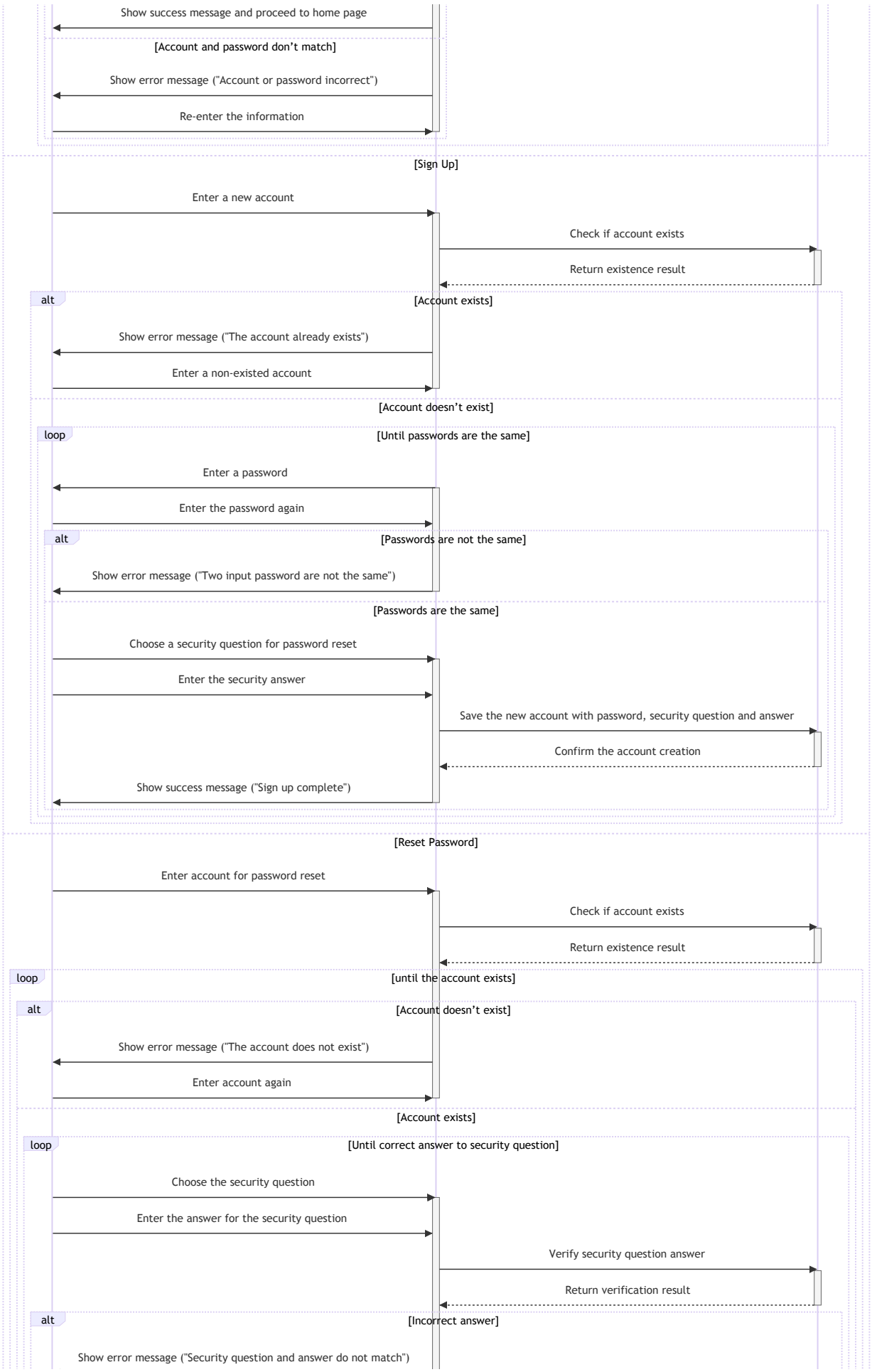
- Original version, may change

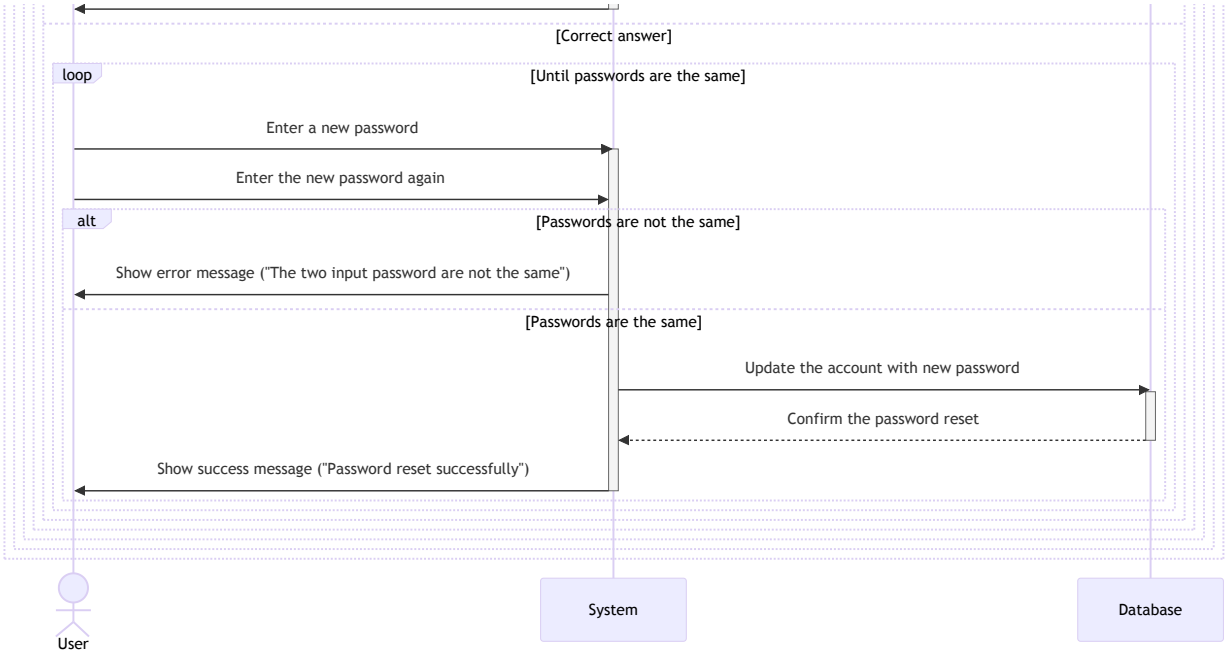
Sequence Diagram
(Zhihao Cao, Zihan Zhou, Changhao Huang)



Zhihao Cao (view clothing items)




Show success message and proceed to home page
[Account and password don't match]
Show error message ("Account or password incorrect")
Re-enter the information
[Sign Up]
Enter a new account
Check if account exists
Return existence result
alt
[Account exists]
Show error message ("The account already exists")
Enter a non-existed account
[Account doesn't exist]
loop
[Until passwords are the same]
Enter a password
Enter the password again
alt
[Passwords are not the same]
Show error message ("Two input password are not the same")
[Passwords are the same]
Choose a security question for password reset
Enter the security answer
Save the new account with password, security question and answer
Confirm the account creation
Show success message ("Sign up complete")
[Reset Password]
Enter account for password reset
Check if account exists
Return existence result
loop
[until the account exists]
alt
[Account doesn't exist]
Show error message ("The account does not exist")
Enter account again
[Account exists]
loop
[Until correct answer to security question]
Choose the security question
Enter the answer for the security question
Verify security question answer
Return verification result
alt
[Incorrect answer]
Show error message ("Security question and answer do not match")

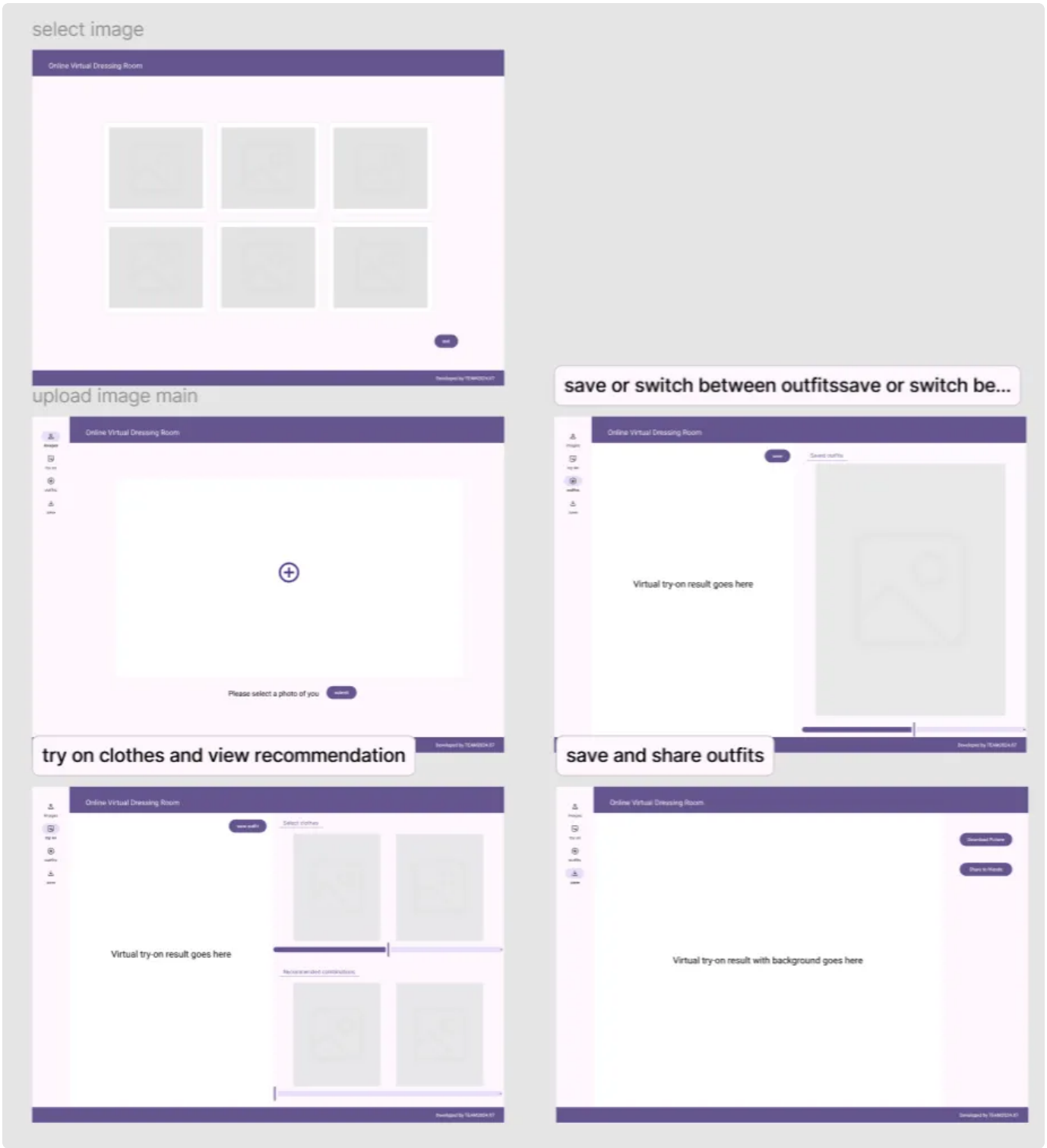


Changhao Huang (Sign in, Sign up and Password reset)

Prototype （Peini She, Zixin Ding, Jinghao Liu)

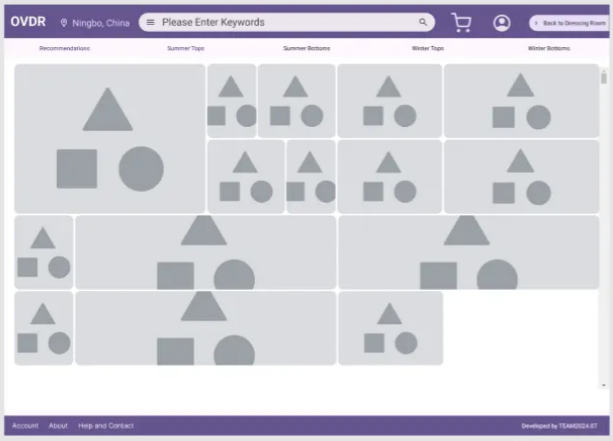
https://www.figma.com/proto/LQUS6de4UhTJhda2CwG3pM/Online-Virtual-Dressing-Room?node-id=759-266&t=pQxtEI2GGP8lacOi-1

- **Try on Page （Unfinished version with interaction)**

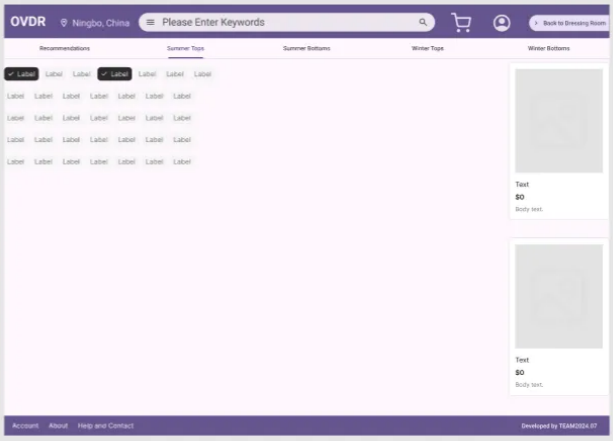


- Browser （Unfinished version, accessories are harder to find, list the current IDEA in the interface conception and continue to realize it at a later stage）

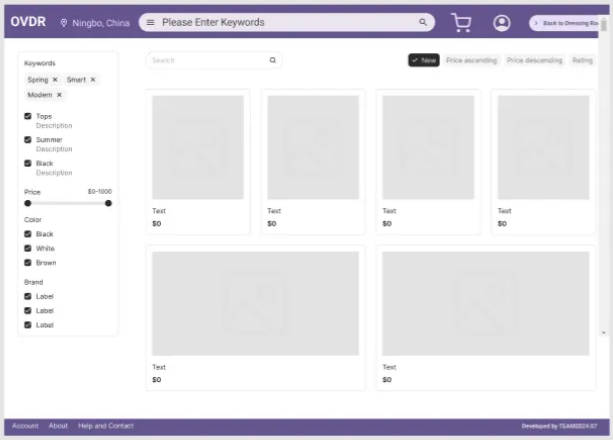
main searching page



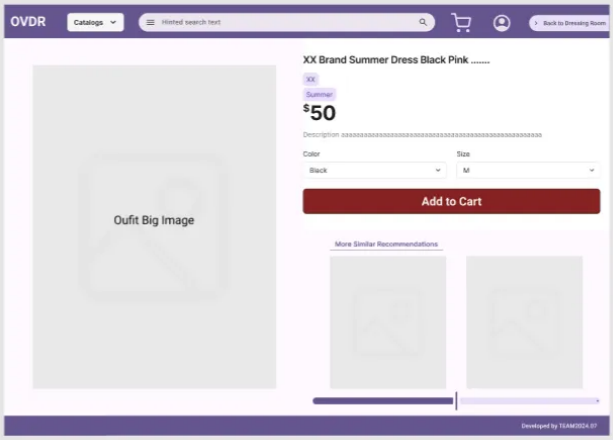
searching summer tops page



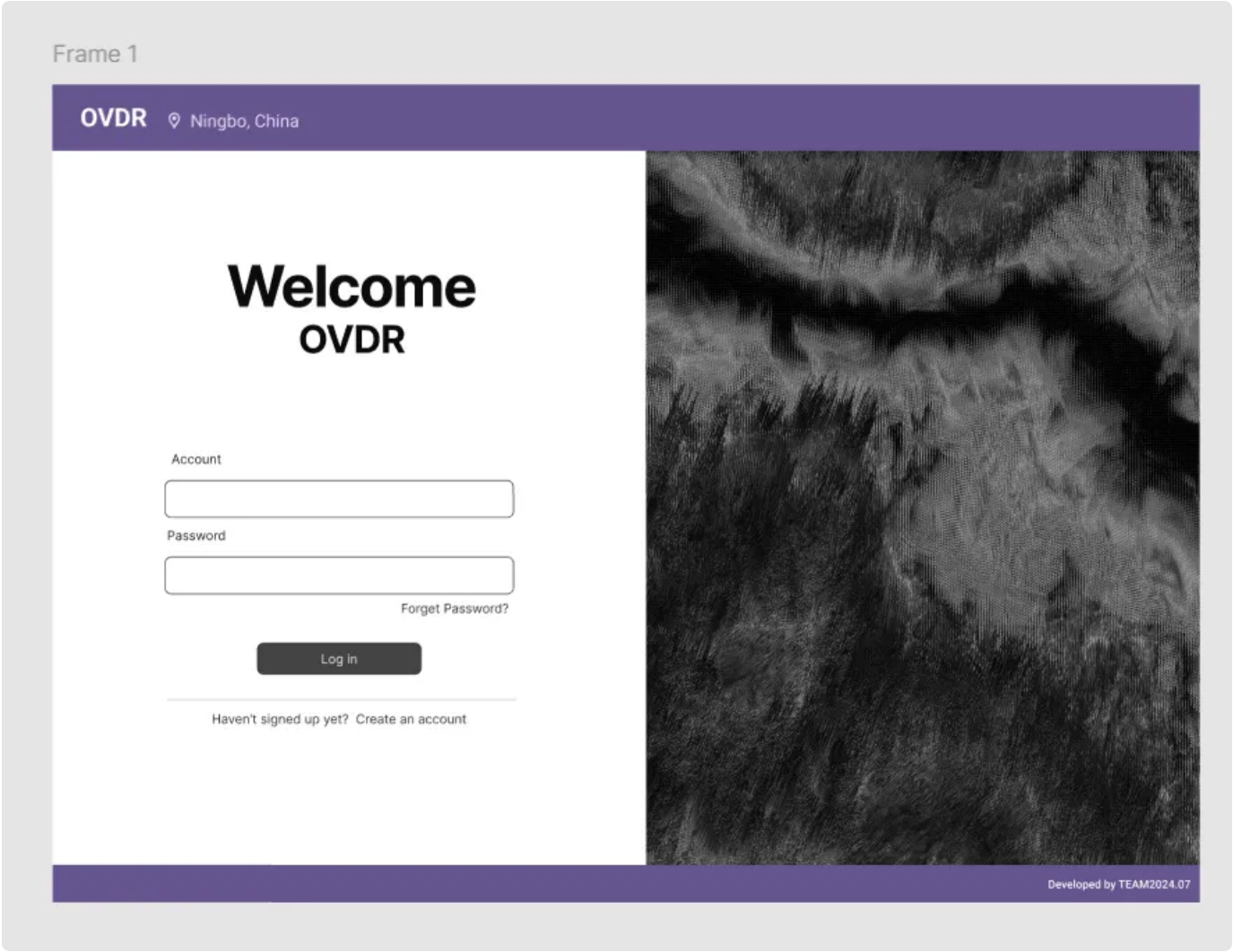
browsing outfits



view outfit



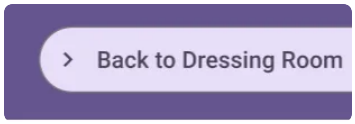
- Login （Unfinished version）



Prototype Interface Conception

1. **Enables seamless navigation between different outfits, searching and trying on clothes**

- Add a page switching tab in the upper right corner (or upper left corner) of the interface to realize the switch between the fitting room and the search interface.



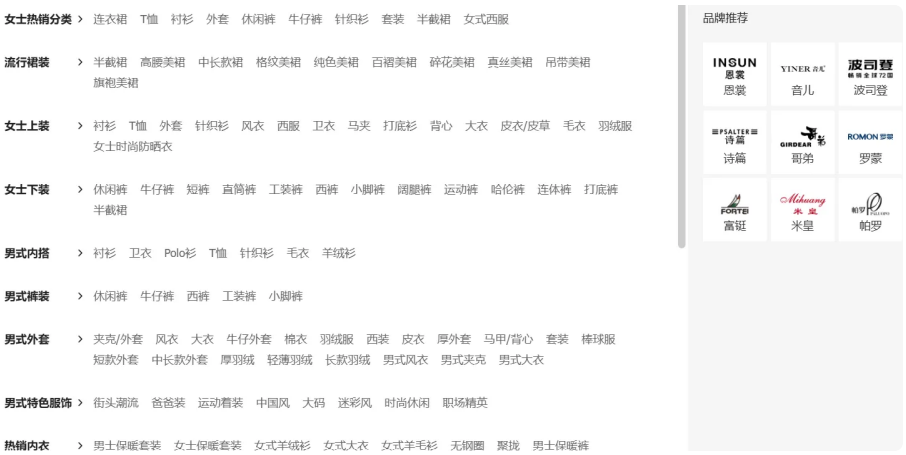
- (To be implemented) Add basic catalog categories to the Outfit Cart in the clothing section of the fitting room to differentiate between basic categories such as tops, bottoms, dresses dressing, etc.

2. **(Ding) Keyword (or Label) layout concept for the search interface.**

    a. **Simple version (single item choice)**

i. Classification of goods into horizontal and vertical rows and columns, with rows headed “Women's tops, women's bottoms, skirts, men's tops,” etc., listed as a rule, such as women's tops are divided into shirts, T-shirts, etc.

ii. The item recommendation can be put on the right side (the picture below is for reference)



iii. Hopefully it's something like clicking on the Catalog button and then a drop down bar appears

iv. After clicking on a specific item, you will be taken to the interface for picking detailed labels (the image below is for reference, more than one can be selected)

Q&A:

1. What does a webcam look like? Is it a code to call the local camera hardware?

I.e. normal webcam, usb-cam is easy to call.

2. How to connect to the school server and in what way?

The database is built locally to improve the interactive experience and display effect.

3. Do we need a role actor like seller or administrator to add new clothes to the database?

Should add an administrator to handle the database

4. “the application will deliver an enhanced online shopping experience.” Do we provide labels such as prices or purchase links in the fitting room?

No purchase related functionality is required.

5. Do we need to use Javascript for the interactive part?

6. what datasets and libraries are needed to complete this project (recommendations)

7. what are the requirements for our website (including minutes) and how do we give them to teachers?

Undo List

1. 自我决定是否添加未登录浏览
2. try-on生成图片最快耗时需要10-15s，UI需要考虑处理时间
3. API一次只能替换一件衣服，需要考虑全套换装的流程
4. 可直接调用观看已生成的他人的结果（公共人物图片）
   需规定上传的照片以及拍摄照片符合基本要求（如正确的物种、合理的姿势，以减少选择的范围）
5. 针对功能期望的open question改为multiple choice，提供关键词细化，与设计用途相关
6. 如果提供相关网站，希望何种呈现（功能性），如图片呈现形式等
7. ★★补全**Functional Requirement**（软件设计的流程！）★★
8. Interaction需与Use Case结合实现
9. label需要由图片数据集分类生成
10. 历史浏览信息、历史搭配信息（均需反映在use case Diagram中）

1. Self-determination of whether to add unregistered views
2. The fastest time needed for try-on to generate images is 10-15s, UI needs to consider the processing time.
3. API can only replace one piece of clothing at a time, need to consider the flow of the full set of dress-ups
4. You can directly call to view the results of other people's generated images (public character

images). Need to stipulate that the uploaded photos as well as the taken photos meet the basic requirements (e.g., correct species, reasonable poses to reduce the range of choices)

5. Change the open question for functional expectations to multiple choice, providing keyword refinement relevant to the purpose of the design
6. If a relevant website is provided, what kind of presentation (functionality) is expected, such as the form of image presentation, etc.
7. ★★★ Completion of Functional Requirement (process of software design!) ★★★
8. Interaction needs to be realized in conjunction with Use Case.
9. Label needs to be generated from the image data set.
10. History of browsing information, history of matching information (all need to be reflected in the use case Diagram)

Next Week Work and Important Point

Envisioned in Timeline:

Revise and refine the preliminaries (UML, Prototype, etc.)
Start questionnaire information collection
Find project-related software, websites, datasets
Update website, website maintenance

Tasks for next week

1. search for related recommendation algorithms (research, environment, trial, understand the underlying algorithms)
2. find public datasets & image dataset crawler
3. captioning (clothing especially, may need training)
4. databases associated with features (account info, keywords, images, history)

Plan

Task	Person(s)	Status	DDL	Degree	Note

functional/non–functional requirement	ALL	ing	11.6	ur… fir…	
revise user case diagram	Zixin Ding	finish	11.6	ur…	Administrator part may need to further improve
revise activty diagram	Zhihao Cao, Zixin Ding, Peini She, Changhao Huang		11.6	ur…	
revise sequence diagram	Zhihao Cao(leader), Changhao Huang, Zihan Zhou		11.7	ur…	
revise questionaire	Zihan Zhou(leader) Jinghao Liu(deputy leader) all		11.8	ur…	
revise prototype	Peini SHE (leader) Zixin Ding Jinghao Liu		11.8	ur…	
ask for the website requirement	Zhihao Cao	finish	11.5		

website maintain	Zhihao Cao(leader) Zixin Ding (deputy leader)	ing	11.13		(complete web version1.0) long–term
Real time updates files	Zixin Ding	ing			
questionair data collection	Zihan Zhou(leader)		11.13		
data sets, API and package collection	Zhihao Cao(leader) Jinghao Liu		11.13		
keep learning	all		11.13		