

E X H I B I T I O N

CPT 208

sharing

21 ics Zongheng Liu

21 ics Hanlin Zheng

21 ics Haoran Qin

21 ics Qibing Gu

21 ics Yuchen Gu

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Best wishes

01

L O R E M I P S U M

Member Introduction

Briefly introduce the group members.



P
A
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21 ics Zongheng Liu

坐标陕西西安
两段surf
博世实习-软件工程师



 WashU McKelvey Engineering

January 08, 2025

Zongheng Liu
Unit 6, Building D3
Xi'an, Shaanxi 7100...

China

Dear Zongheng Liu,

Congratulations! It is a pleasure to inform you that you have been admitted to the Master of Information Systems Management program starting Fall 2025. Admission to this degree program is not transferable to other departments and/or degree programs.

The deadline to respond to this offer of admission is May 1, 2025. To accept the offer of admission please use the response link in the application portal. This offer of admission will expire if you do not provide an explicit response. After accepting the offer, you may request a deferral for up to one year from the aforementioned start semester.

Once again, congratulations. We hope you will decide to accept our offer, and look forward to welcoming you to Washington University in St. Louis later this year.

Sincerely,



Aaron Bobick
Dean and James M. McKelvey Professor

Zongheng Liu [Accept](#)
[Download PDF](#)



21 ics Hanlin Zheng

坐标福建福州
大二半奖
上市公司算法岗
上市公司大模型测试职务
两段surf
一篇ei
一篇iccv顶会在投



21 ics Haoran Qin

博世实习-AI算法
蔚来实习-数据分析
两段surf
两篇论文在投



IMPERIAL

UCL

06 November 2024

21/01/2025

Conditional Offer

Congratulations! We are delighted to inform you that your application has been successful and that we would like to make you an offer.

THE UNIVERSITY OF EDINBURGH

MANCHESTER

12 December 2024

Programme of Study: Master of Science

Mode of Study: Full-Time

Length of Course: 12 Months

Congratulations!

University of BRISTOL

Offer to study at the University of Bristol beginning in the academic year 25/26.

Meeting the following requirements:

An Upper Second Class (2:1) overall. And meet the English Language requirements outlined in Profile C or conditions by 31/07/2025. You can respond to your offer in your applicant portal.

21 ics Qibing Gu

坐标浙江杭州
大二全奖
大三全奖 均分82
三段AI surf
一段软件开发实习

Congratulations on Winning the 2023-24 XJTLU Academic Scholarship

academicservices <academicservices@xjtlu.edu.cn>

收件人: Qibin.Gu21

Dear QIBIN GU [REDACTED]

This is to inform you that you have been awarded with University Academic Excellence Award based on your academic performance in 2023-24 Academic Year. The list of scholarship winners and the threshold information have been released on the e-Bridge Bulletin. And the final list of scholarship winners will also be published on the XJTLU official website at the beginning of the new semester. Congratulations on your achievements!

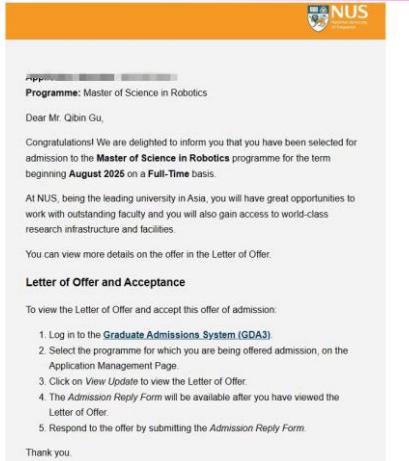
The scholarship will be offset against the tuition fee of the next academic year (2024-25). For detailed information about XJTLU scholarships, please refer to the [Policy on Awarding Academic Scholarships](#) which can be retrieved from the Policies and Regulations page of e-Bridge.

If you have any questions, please feel free to contact us at academicservices@xjtlu.edu.cn for help.

The list of scholarship winners and the threshold information have now been released on the e-Bridge Bulletin and will also be published on the XJTLU official website in Week 0 of the new semester.

The scholarship will be offset against the tuition fee of 2023-24 academic year. For detailed information about XJTLU scholarships, please refer to the [Policy on Awarding Academic Scholarships](#) which can be found on the Policies and Regulations page of e-Bridge.

回复 转发



IMPERIAL

ADMISSIONS
Imperial College London
Level 4, Battersea Building
South Kensington
London SW7 2AZ

Tel: +44 (0)20 7589 5111
Email: admissions.enquiries@imperial.ac.uk
www.imperial.ac.uk/

17/01/2025

Dear Qibin Gu,

Congratulations! We are delighted to inform you that your application to Imperial College London has been successful and that we would like to make you an offer to study with us.

We hope that you're as excited about joining us as we are at the prospect of welcoming you. Imperial is a global top ten university with a world-class reputation in science, engineering, business and medicine, so we're thrilled at the prospect of you joining our vibrant community.

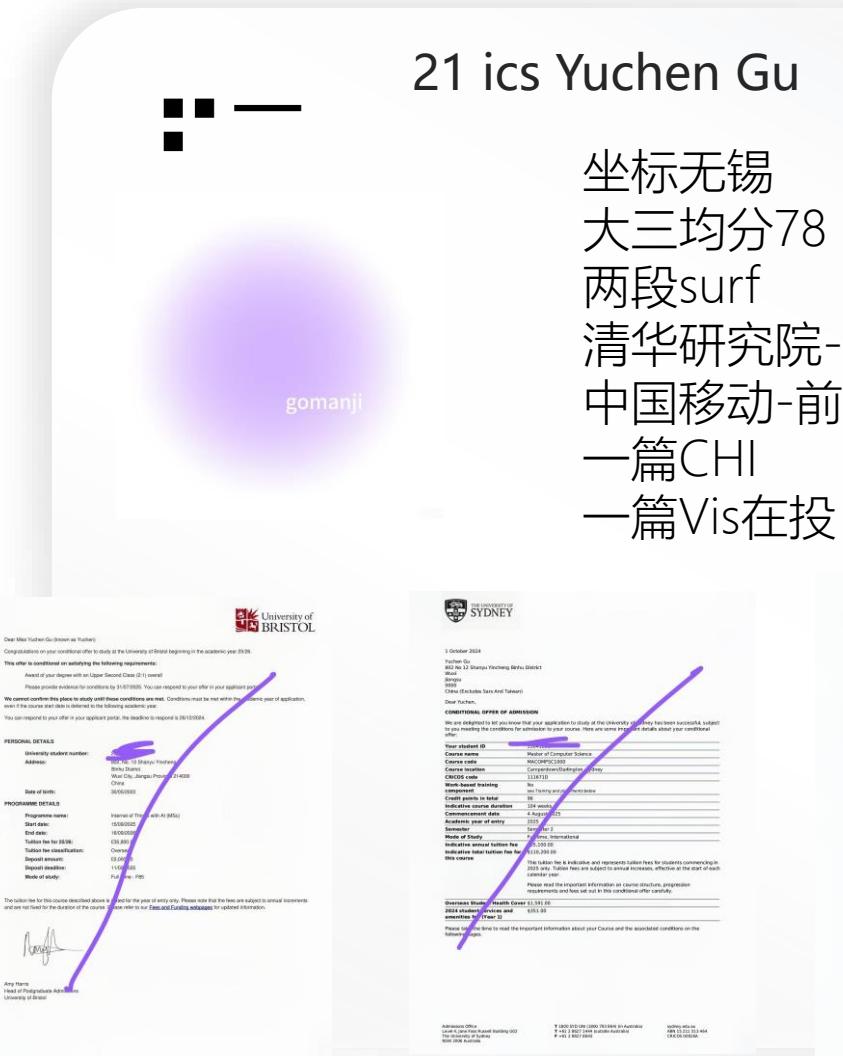
Your offer is conditional, so you will still need to meet the requirements we outline below before you can take up your place.



Dear Mr. Gu,
Full name (as stated on application): Qibin Gu

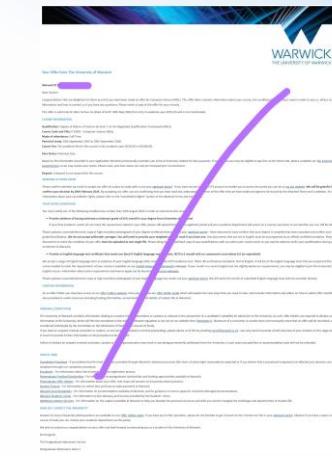
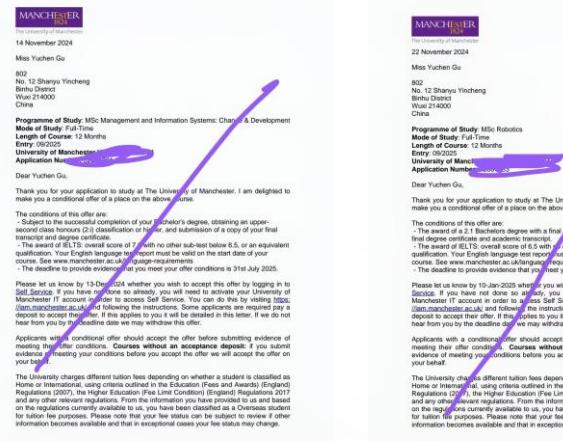
Method of Study: Full-time
Start Date: 22 September 2025
Anticipated End Date: 21 September 2026

CONDITIONAL OFFER
Your application for admission to UCL has been considered and I am pleased to be able to make you an offer of entry to the above programme(s).



21 ics Yuchen Gu

坐标无锡
大三均分78
两段surf
清华研究院-产品
中国移动-前端
一篇CHI
一篇Vis在投



02

L O R E M I P S U M

Experience Sharing

Briefly introduce our experience of CPT208



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One

Choosing good teammates and assigning tasks within the group is very important. Choose positive, reliable, and friendly teammates. Division of labor within the group should leverage the strengths of each member.

选好队友和组内分配工作是很重要的
选择积极，靠谱，友善的队友
组内分工要发挥每个成员优势

Two

Actively come to lecture!

CPT208 is a very interesting course with a high attendance rate. Every lecture and seminar must come to the site for group assignments. Every week, actively discuss and revise with the TA, and the team leader actively convenes meetings with team members.

Lecture 要来积极上课!

(cpt208是很有意思的一门课，出勤率很高)
每节Lecture和Seminar都要来现场小组作业每周主动和TA讨论，修改，组长积极召集组员开会

Three

What we did was not the most perfect, there are still many improvements and added features such as Vr , Ar in the future, You will do better than us!

我们做的不是最完美的，之后还有很多改进和添加的功能例如Vr, Ar，你们会比我们做的更好！



Group division of labor

Member: Zonghengliu (pre, ppt, meeting)

Member: HanlinZheng (Questionnaire, data visualization)

Member: Haoran Qin (Interview, Prototype)

Member: Qibing Gu (Video, Prototype)

Leader: YuchenGu

(Persona, Prototype, Mirror, Poster, ppt)

Each group member should participate in each stage~

03

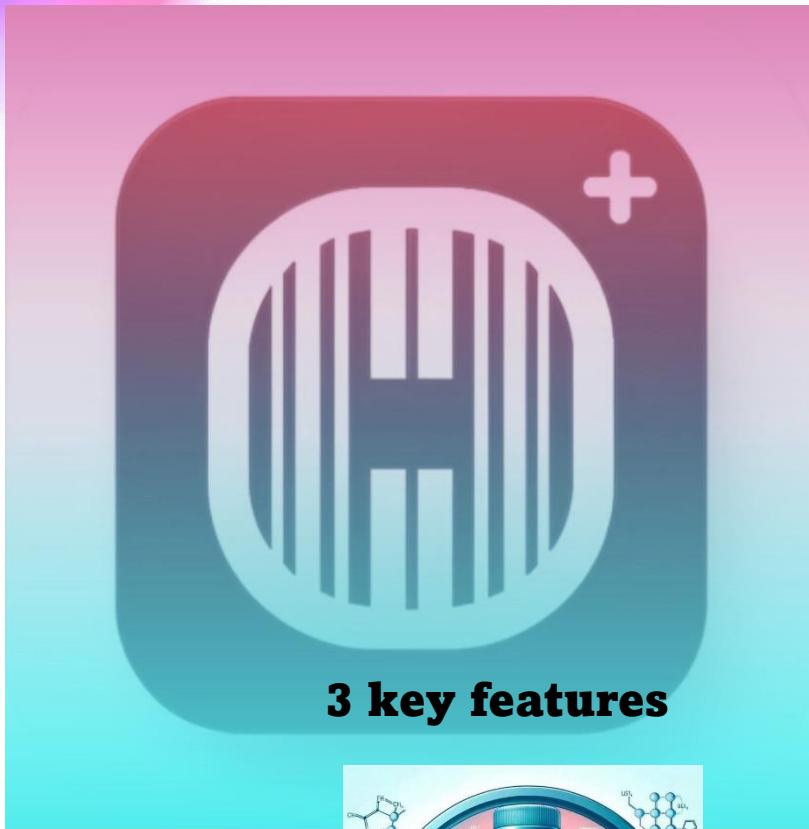
L O R E M I P S U M

Project Sharing

Briefly introduce the CPT208 Group
Project of our team



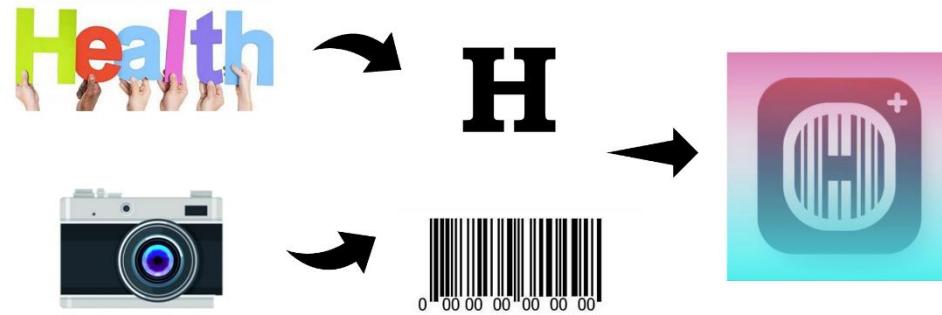
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Analysis of ingredient list

Background introduction and the topic

Healthy related APP---Health plus !!!!



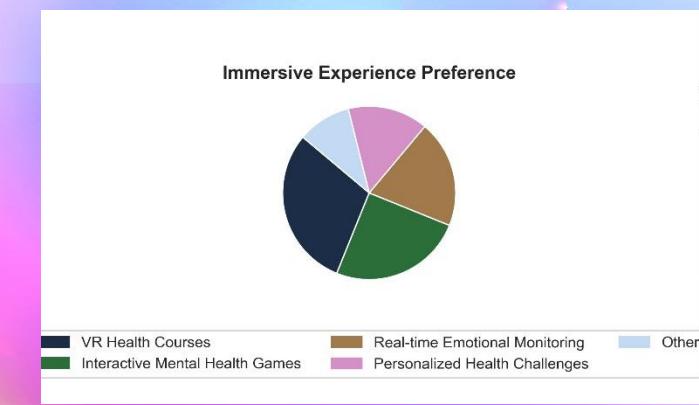
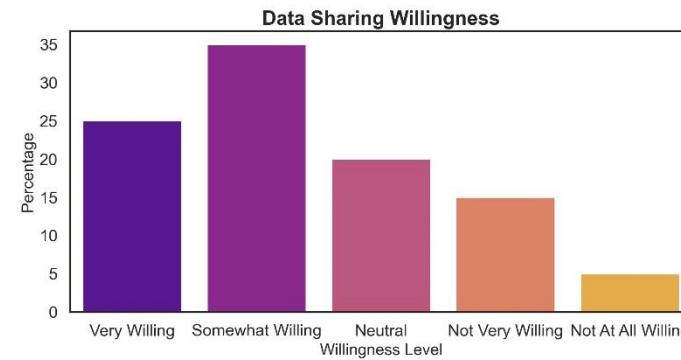
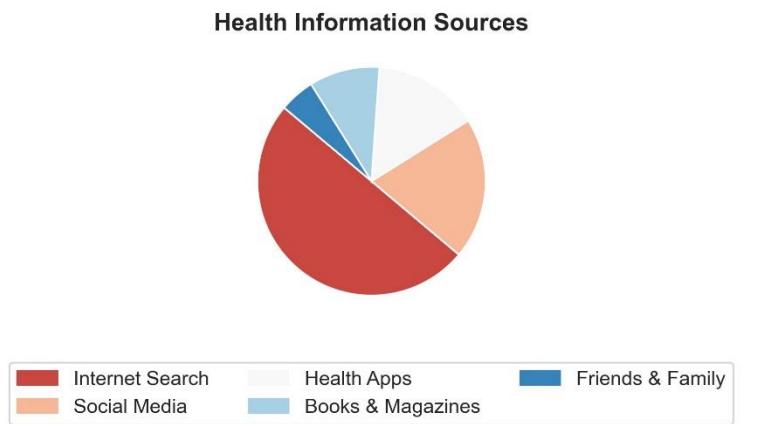
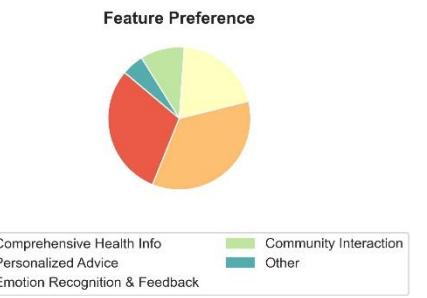
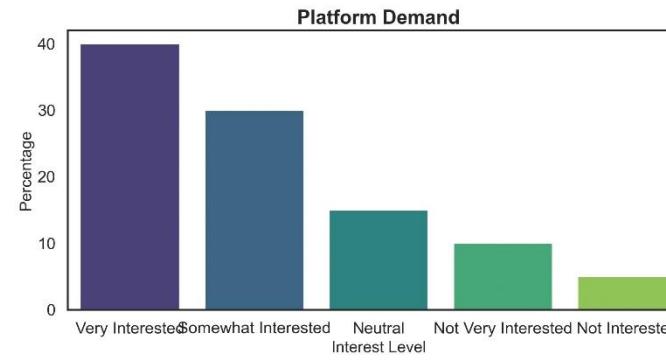
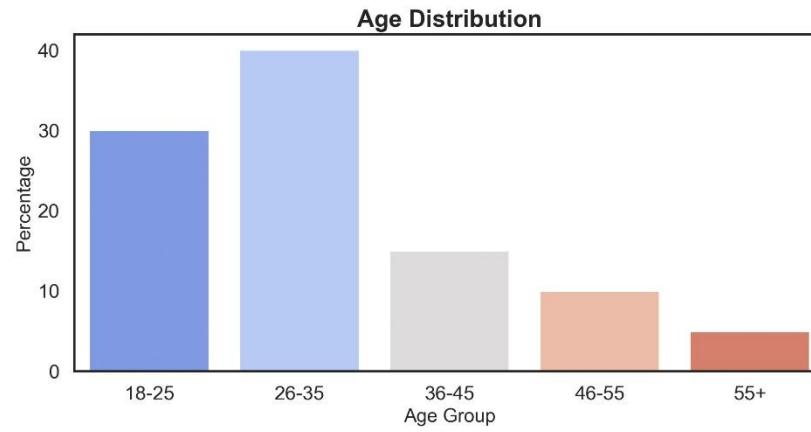
Feedback on diet and daily necessities



Assistant with health knowledge

User requirements collection

Questionnaire



Elva Baxter



Like Hockey and Frisbee Major in Communication Studies
Enjoy social activities Pay attention to beauty makeup

Goals:

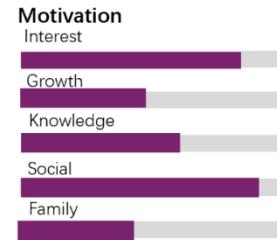
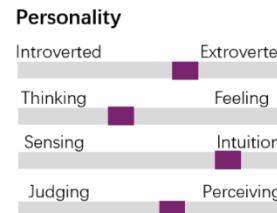
- convenient to check whether food or daily necessities are healthy when buying makeup things and other daily necessities
- Record the calories and health status of food intake after exercise

Challenge:

- The course is too heavy and there is no time to supervise dietary health
- Most cosmetics purchases are made by identifying brands for online shopping

"Sports and happy every day~"

Age: 22
Work: Student
Location: Suzhou China
Character: outgoing, extrovert



Brent Martinson



Code Maniac Doctorate in Communication Engineering
A bit overweight Food allergies and respiratory diseases

Goals:

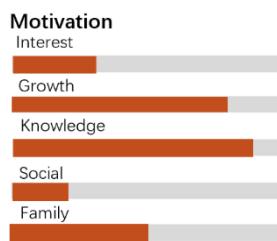
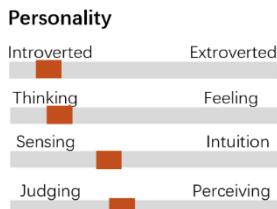
- Detecting food fat, calories, etc., and controlling diet
- Check for potential seafood allergies in food
- Check daily necessities for potential respiratory allergies

Challenge:

- The work is too heavy and there is no time to supervise dietary health
- Most of the time eat in the cafeteria

I want to live longer!

Age: 36
Work: Programmer and Manager
Location: Suzhou China
Character: smart, introverted



User requirements collection

Interview - Persona



Most of the users are young people, young people are more interested in new things[1], and it is easier to become popular among them



Most of the target users get relevant information on the Internet, there is no professional way



Our project has a lot of demand, people want professional software to track their daily diet and food health



Users crave multiple forms of interaction [2]

User requirements analysis and inspiration

- **Validity**



Our design allows users to understand and learn how to use Health+ in a simple and direct way, and we will minimize the complexity of user operations.

- **Efficiency**



By proficiently using our software, users will have a better understanding of Health+ and its related knowledge, which can help them effectively living in a healthy life.

- **Public Utility**



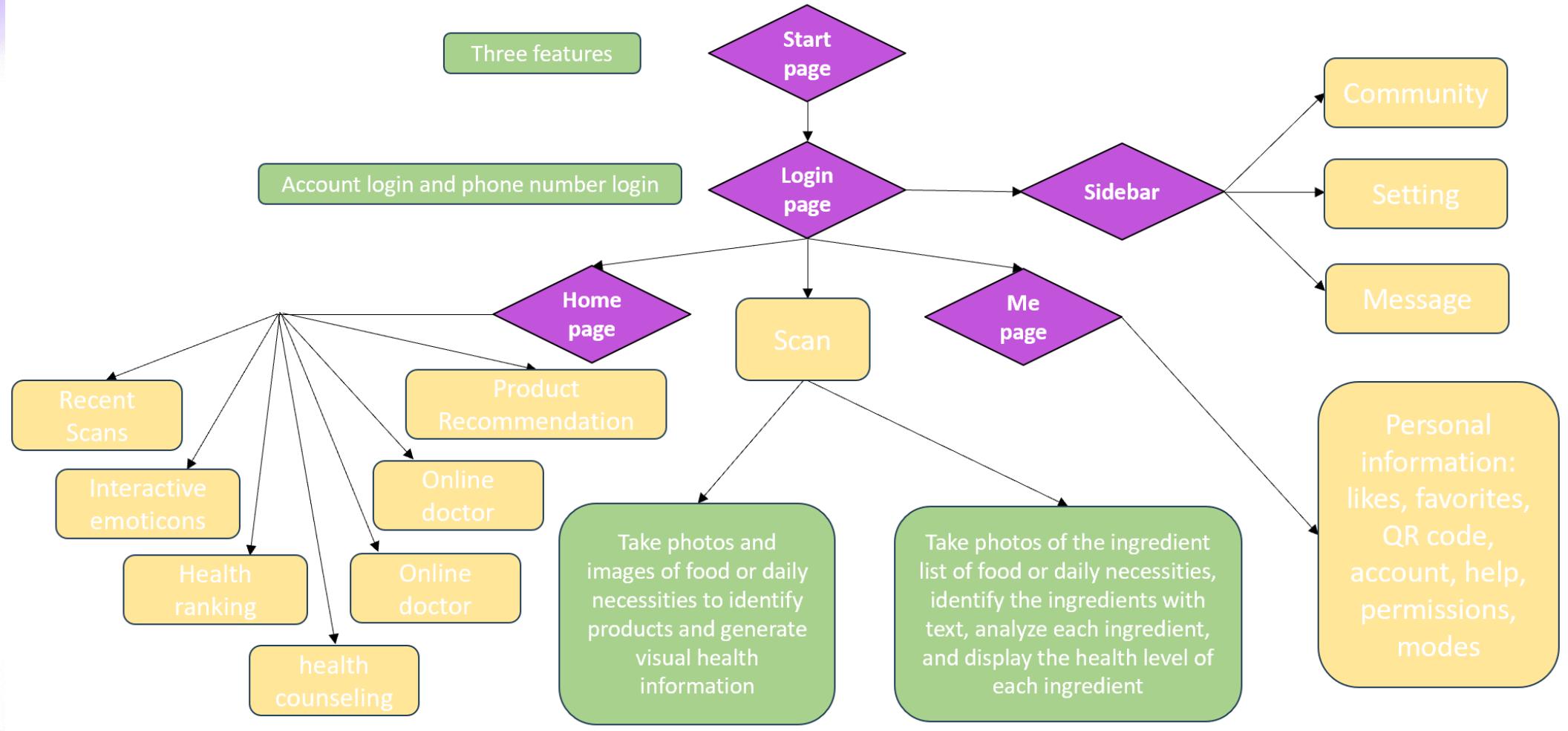
Users can set their own diet and daily necessities health plan through this Health+, and monitor the health and hygiene level of their diet and daily necessities. The software will regularly remind users based on their schedule to assist them with testing.

- **Learnability**



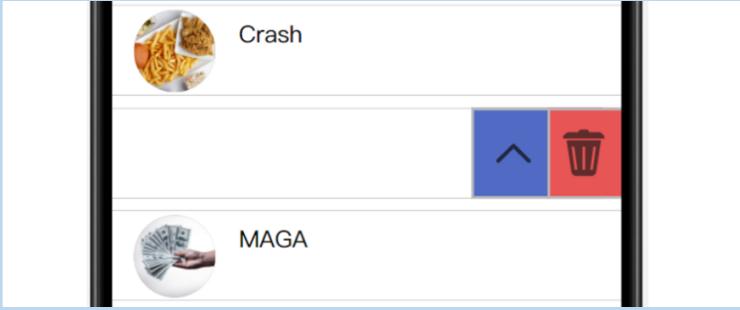
This software will provide various prompts and tutorial demonstrations to help users quickly understand the basic functions of the software when using it for the first time. The software will be designed based on the most commonly used templates in modern times to ensure that users can still use the core features of the software even if they forget the tutorials.

Project aims and objectives



Project aims and objectives
— — Functional flowchart

Use case 1



This page does not have interactive gestures and requires users to click multiple times.

When creating the interface, we need to consider using interactive gestures to help users improve operational efficiency. We can add some interactive gestures in some list form scenarios to reduce the operating cost of high-frequency functions.

Key issues
of the existing work

Use case 2



The colors of the original image icons are similar but not obvious.



Through comparison, our design can clearly emphasize the key points in the design, which will leave a deeper impression on users and also have a certain degree of fun.

Key issues
of the existing work

Use case 3



In this example, the buttons are very small and crowded.

In our design, the button distribution is reasonable, the layout is beautiful, and it is relatively large, so the possibility of users accidentally touching it is low.

Key issues
of the existing work

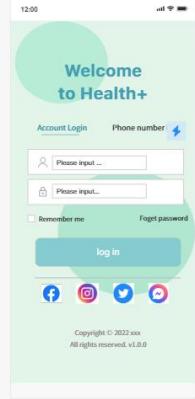
start over



start over 4



log in (acco...



log in (phon...



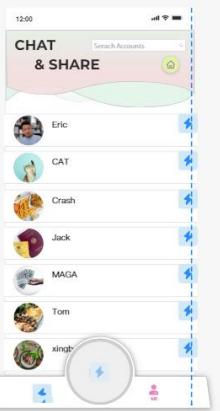
take photo



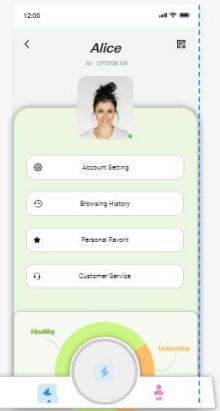
home page



chat page



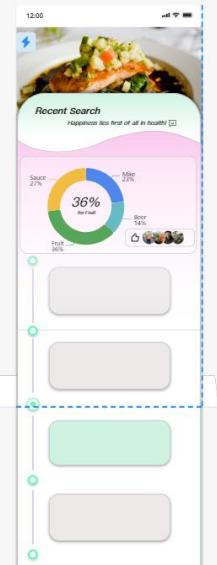
Me



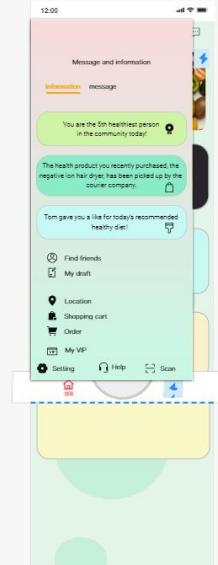
nutrition sta...



Recent Sear...



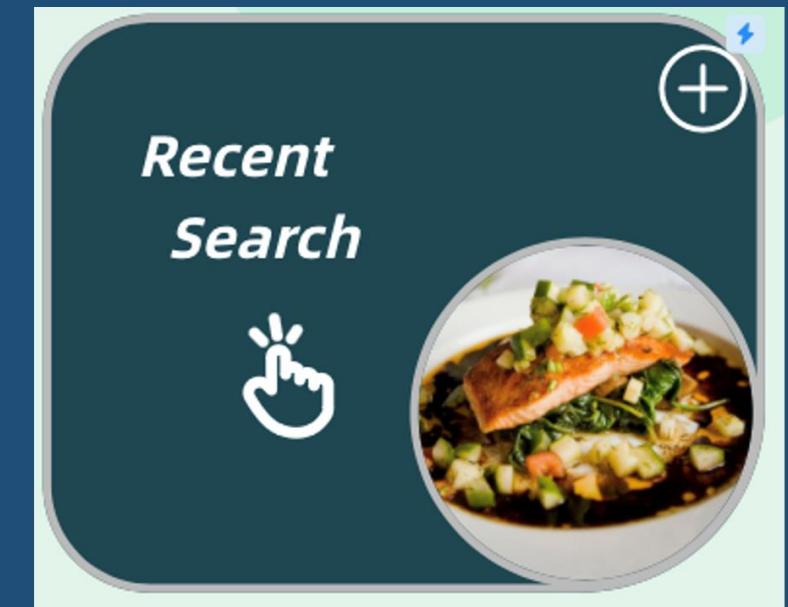
sidebar



Recent
Search

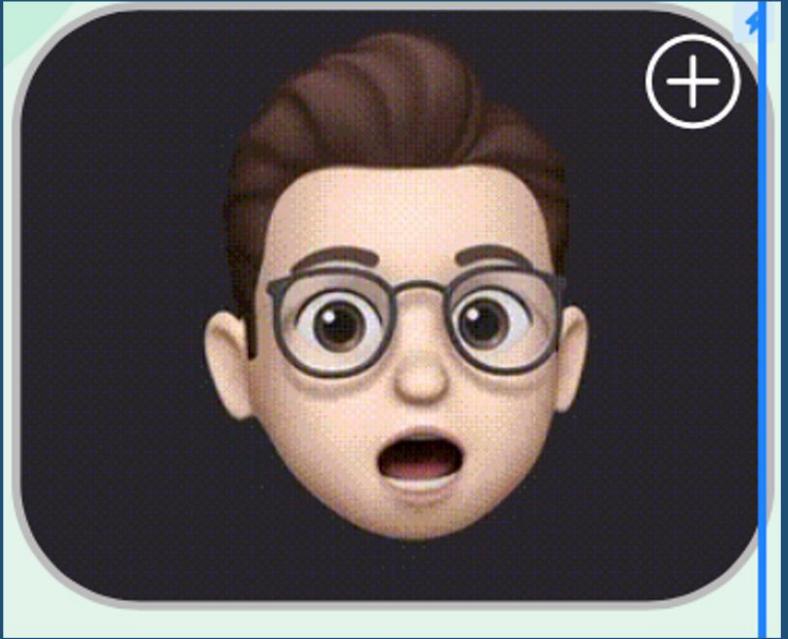


Prototype by MoDao



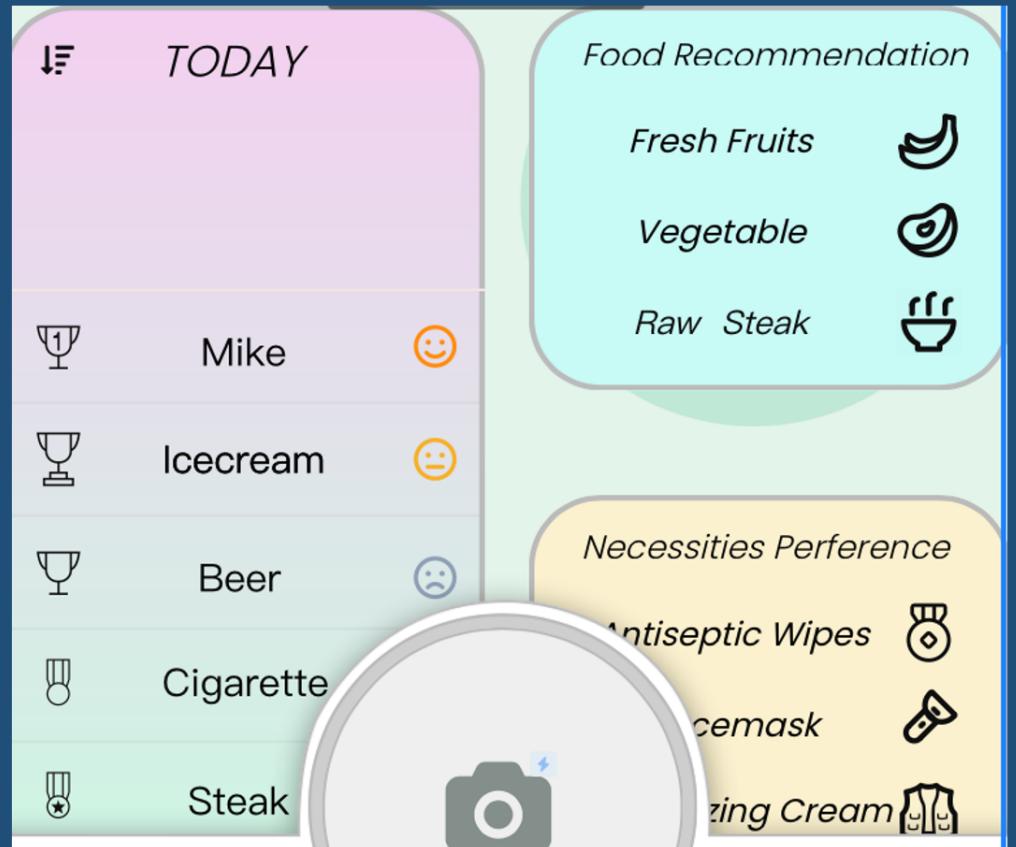
The most recently searched items are represented by dynamic cartoon characters, because there is a high chance that the user is currently using the item they just searched for, and there is a high chance that they will revisit the searched item

Effective and novel design solutions



This is a dynamic cartoon character with different expressions, and users can design their own cartoon characters or use the default image. The characters change their expressions based on what they eat and what they use every day. For example, when a patient with high blood pressure consumes too much salt every day, the cartoon becomes an angry expression

Effective and novel design solutions



On the far left is the use of daily necessities and the intake of related things

The green boxes represent daily diet recommendations, which are based on what's already been consumed or what's missing. For example, if a person has too much of a substance, the system will recommend a diet that is good for absorbing that substance

Effective and novel design solutions

CPT208 - 2324 - S2 - Human - Centric Computing (E8)

Health+

Tips: Welcome to our CPT208 portfolio-

This is our experience of self-learning and planning for a semester-



Frame 3

Frame 4

Mirror - Show progress and ideas !

Assistant for Hygiene and Health Analysis of Diet and Daily Necessities: Health +

Abstract

The attention to health and hygiene issues is increasing, and there are hidden health and safety hazards that are difficult to detect in diet and daily necessities. Through our group's investigation and exploration, we found that there is a lack of software in the market that helps users analyze and identify the health status of food and daily necessities. Therefore, this project aims to create a comprehensive and portable daily health and hygiene analysis system.

Health+ through design, prototype, and evaluation.

Requirements

- User Functional Requirements:**
 - 1. Health Analysis: Provide comprehensive analysis of user's diet and daily necessities, including nutritional value, potential risks, and recommended alternatives.
 - 2. Hygiene Advice: Offer advice on proper storage, use, and cleaning methods based on user input.
 - 3. Nutritional Recommendations: Provide personalized recommendations for nutritional balance, considering dietary records and preferences.
 - 4. Health Information Updates: Provide users with latest health and hygiene information to support healthy lifestyles.
 - 5. Health Data Acquisition: Obtain relevant health information such as physical and mental health details based on user recognition.
 - 6. Automatic Analysis: Automatically analyze and identify food and daily necessities, offering detailed health analysis and recommendations.
 - 7. Database Updates: Regularly update the health information database to ensure users have access to the latest data and suggestions.
 - 10. Intelligent Recommendation: Recommend suitable food and daily necessities based on user preferences and health needs, including purchase suggestions and alternative product recommendations.

User Persona:

- Evel Baxter:** The first character we have created, she is a college student who only loves sport, but also focuses on fitness and nutritious meals such as salads and smoothies. She is a fan of products and cosmetics. As one of the typical targets, she strongly needs a platform to analyze the health status of common food and daily calorie consumption, indicators during exercises, and obtain health recommendations.
- Brent Marlinson:** The second character we have created, he is an obese middle-aged man with high blood pressure, often sitting, and no time for exercise. He suffers from respiratory problems, has a very overweight and is allergic to seafood such as tuna. He needs Health+ platform to analyze his health status in food, and to monitor his healthy eating habits, motivate and encourage him to exercise.

Information card:

Name: Jacob
Work : Retired teacher
Age : 67
Location: Suzhou

Hobbies: 70%
Entertainment: 24%
Feelings: 40%
Perceiving: 50%
Judging: 90%

As a patient with special diseases, such as diabetes or hypertension, I want to see the ingredients that severely affect my disease, so that I can avoid using things greatly affect my health.

As a user sometimes can not remember things well, I want to have a place for me to quickly check what I have searched before.

He has a young attitude towards life, is eager to socialize, and can accept most technologies. At the same time, I am a social entrepreneur for social networking, marketing on the Internet, and I am willing to share some of my experiences on the use of software. During the use of Health+, he will actively share his daily diet and share it with the community. Therefore, the software needs to set up a platform for users to share.

Results

The Final Prototype: Our group's prototype design basically covers all user functional requirements. We have been constantly improving and iteratively iterating and improving. In addition, our prototype design maintains simplicity and clarity, avoiding excessive complex and redundant design elements, while maintaining consistency, improving user experience, reducing user confusion, and learning costs.

The first line shows the Start Over and Login pages. The second line shows the interactive and functional pages.

The Final Prototype: The final prototype is displayed here. Scan QR code in the lower right corner for more information.

The final prototype is consistent with the real user interface. We expect further upgrades.

The above picture is the result of our questionnaire which shows the user's perception and satisfaction before. Most users express easy of use to our software, and their satisfaction is generally high. Moreover, participants think that the most useful function is scanning the ingredients list of products for analysis. The right part is the key data values among the analysis.

The interview part we invited 20 people who are mainly colleagues. And we divide them into 4 groups to do the interview. After the interview and evaluation, we conduct detailed interviews with the experiences and found that the majority of users were satisfied with the design and layout of the prototype, especially the younger users. However, they also raised concerns about the language of the software, with some users unable to fully understand the full functionality of the software, and suggested that multi-language switching should be added.

Discussion and Conclusion

The main contribution of this design is to assist a User for Hygiene and Health Analysis of Diet and Daily Necessities: Health+. Through data collection and analysis of requirement, design, implementation, and evaluation, we have obtained a deep understanding of user requirements, understood and implemented the basic prototype methods and technologies of interactive design, critically evaluated interactive systems, and recognized the issues involved in designing computer systems with a people-oriented approach, including understanding relevant legal, social, ethical, and professional issues.

Yuchen Gu 2142038
Hanlin Zheng 2145799
Siyuan Wang 2145132
Haoran Qin 2143434
Zongheng Liu 2144695

Methodology

Our interaction design follows the Interaction Design Lifecycle Model [1] with four basic activities (discovering requirements, designing alternative solutions, prototyping, and evaluation) iteratively carried out.

- To describe the requirements, each of our team members created an atomic requirement shell and a user story. Through such a practice in tutorial, our group clarified the specific requirements space and provided a description of the system content to be developed to guide the project including functional, unfunctional, data, environment, and user requirements.

In terms of data gathering for requirement, our team conducted a survey questionnaire and interviewed a range of people. To bring requirements to life, our team create persona, as well as scenario.

- When designing the system, we used the functional flowchart to ensure that the final solution effectively meets user needs and project objectives.

In this part, I will combine the functional flowchart to introduce our current Health+ prototype implemented in Modac with the physical design according to functional classification.

- In this part, I will combine the functional flowchart to introduce our current Health+ prototype implemented in Modac with the physical design according to functional classification.

In order to evaluate [3] the Health+ system, our group has developed four evaluation methods: online questionnaire, offline interview, requirement mock test and asking experts.

- The questionnaire combined closed-ended form and open-ended form and was disseminated by e-mail and friend circle.

Due to the inability to delve deeper and further explore the issues in the online questionnaire, we invited 20 individuals who completed the online questionnaire to conduct offline interviews.

- In the requirement mock test, 12 interviewees are selected to conduct on-site requirement testing in the school's supermarket.

Two experts have been invited to participate in the evaluation of our Health+ system.

- In order to better meet the current market expectations and requirements, I also conducted two rounds of interviews based on Keep, a fitness software, to explore its advantages and disadvantages.

The first round of walkthrough is case introduction and observation, the second walkthrough is heuristic evaluation [4].

Evaluation methods		
Method	Closed-ended	Open-ended
Questionnaire	Only one question code is /	/
Interview	3 hours of visual observation	/
Requirement Mock Test	Penal all have been interviewed before shopping	1. Heuristic evaluation
Ask experts	Office	2. Heuristic review prototype

Data Collection

We collect 194 questionnaires and 20 interview results to do the data collection, then analyzed and evaluated the results. From the conclusions, we made several iterative designs and improvements based on them. When we do the evaluation part we also add requirement test, which lead the participants to the market to evaluate the user's perception of the scenes of software. Moreover, we ask some of the experts for the advice and feedback data of our project.

	Total no. of ratings	Overall satisfaction rating
Mean	3.8729	1.7631
Variance	2.4104	3.6641
Standard deviation	1.5538	1.9142

During the evaluation and data collection, we mentioned that the software's intuitive point-and-click interface need to be improved. In the requirement mock test, nearly all of the participants affirm the necessity of our products and the demand in the market, experts also said that our software have good idea and design. However, the user interface is not very user friendly. The representative mentioned that we need to take into account the accuracy of scanning results because there are some soft and flexible packaging. It is suggested that we add the function of directly searching products to increase the inclusiveness of functions. The switching of languages is a necessary function which is mentioned several times in the interview, because most of people prior to read Chinese to know more about our software design.



Poster



Discussion and Conclusion

The main contribution of this design is to assist a User for Hygiene and Health Analysis of Diet and Daily Necessities: Health+. Through data collection and analysis of requirement, design, implementation, and evaluation, we have obtained a deep understanding of user requirements, understood and implemented the basic prototype methods and technologies of interactive design, critically evaluated interactive systems, and recognized the issues involved in designing computer systems with a people-oriented approach, including understanding relevant legal, social, ethical, and professional issues.

Reference

- [1] C. Li and S. Ku, "Interaction Design for Smart Healthcare System Considering Older Adults' Health and Wellbeing," *Journal of Design Research*, vol. 12, pp. 151-153, doi: 10.1080/14604580.2020.20203622.
- [2] J. F. Gued and N. Ammarat, "Resilience in design: The role of user personas to enhance co-working spaces design," *Journal of Design Research*, vol. 12, pp. 154-156, doi: 10.1080/14604580.2021.609422.
- [3] Samodek, Y., Inanir, H. P., Koerntje, S. & Manta, A., 2023. IoT-based Application Evaluation of Usability, Functionality, and Efficiency. *International Conference on Recent Trends in Computing, Bandung, Indonesia*, 2023, pp. 1-6, doi: 10.1017/9781009212023.013.01310.
- [4] N. Wijesinghe, P. W. C. Peiris & E. Ishmene, "Usability evaluation of Electronic Health Record System," *Journal of Information and Digital Technologies (JIDT), Roboway, Pakistan*, 2018, pp. 205-210, doi: 10.18053/2619-7578/2018/10/205-210.



04

L O R E M I P S U M

Blessing

Best wishes

P
A
R
T
I
W
O

TEXT HERE

Lorem ipsum dolor sit amet, consectetuer adipiscing elit.

Dear juniors,

Last year, we were sitting where you are now. You are standing at a new starting point, and the future ahead is full of infinite possibilities. CPT208 is a course full of challenges and creativity. During this learning journey, it's not just about accumulating knowledge, but also about cultivating independent thinking. Enjoy every moment of exploration and breakthrough. The moments of confusion that keep you up at night, and the sudden flashes of insight that follow, will become more valuable than any grade you receive.

In group work, there's no need to aim for the perfect partner, but you should definitely find a truly compatible teammate. Every member should bring out their strengths and advantages, treat each other sincerely, and respect every voice and contribution. When disagreements arise, don't avoid or overlook them. Instead, approach the situation with a calm and peaceful mindset, engage in active communication, and work together to find the best solution.

Wishing you success, may your efforts lead to great achievements!

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亲爱的学弟学妹们，

去年的我们也像你们一样坐下下面，你们现在站在新的起点上，未来的路充满了无限可能。CPT208是一门充满挑战和创造力的课程，在学习的旅程中，不仅要追求知识的积累，更要培养独立思考的能力，享受每一次探索与突破的过程。那些困惑时的辗转反侧，顿悟时的灵光乍现，都会成为比分数更珍贵的馈赠。

在小组合作中，不必刻意追求完美搭档，但一定要找到真正契合的伙伴。每位成员都应发挥各自的特长与优势，彼此真诚待人，尊重每一个声音与贡献。在遇到分歧时，不应回避或忽略问题，而应以冷静、平和的心态，积极沟通、共同探讨，最终找到解决问题的最佳路径。

祝 功不唐捐，玉汝于成！

E X H I B I T I O N



Thank You

