2024.10.7/8 1st/2nd Informal Meeting Minutes For Bidding

- **Name:** Group Discussion about Bidding
- **Time:**
    - 2024.10.7 19:30 – 21:30
    - 2024.10.8 19:30 – 21:30
- **Location**:
    - 3F – Group Study Room 15 (Library)
    - 3F – Group Study Room 14 (Library)
- **Chairperson:** Zhihao Cao, Zixin Ding
- **Secretary:** Zixin Ding
- **Attendee:** All Person

Outline:

①10.7

1. 互相认识Get to know each other
2. 确定三个投标意向并排序Determine the three bid intentions and rank them
3. 了解每个人的技能，项目idea，项目匹配度等（与2并行）Know everyone's skills, project idea, project fit, etc. (parallel with 2)
4. 确定提交内容Determine what to submit

5. 分配工作并设置ddl （个人认为得在明天弄完，然后晚上或周三早上一起check修改整合，然后周三下午3点前提交）Assign work and set up ddl (personally think it should be done tomorrow, then check and integrate the changes together in the evening or Wednesday morning, and submit it by 3pm on Wednesday)

②10.8

- check 互相负责部分的bidding是否有需要修改的地方check whether there is any need to modify the bidding that is responsible for each other

- 是否有额外idea Any additional ideas

- 整合格式并封包 Integrate formats and wrap them

- 确定提交时间 Determine commit time

1. About Bidding:

- 每个意向一个zip文件，命名<TeamID>.<PreferenceNumber>.<ProjectID>.zip. 例如：Team.2024.07.1.P11.zip.pptx

- 包含（不限于）：

  - **A letter** outlining why the team is is a good candidate for completing the project

  - **CV/ resum´es**: Details of relevant experience or expertise.

  - Some proposed **ideas** related to the project

  - An **estimated timeline** or **schedule** for how the team would complete the project on time

Content ①

- **目前投标意向（8选3）：**

- （两票）[P2024-02] Recommendation System for Online Shopping 网上购物推荐系统

- ~~（两票）[P2024-04] Motion Capture System Based on Multi-Sensor Fusion and Artificial Intelligence 基于多传感器融合和人工智能的运动捕捉系统~~

- [3]（三票）[P2024-08] AI-Powered Digital Signage for Targeted and Personalized Advertisement 用于定向和个性化广告的人工智能数字标牌

  - 可能相对好完成，且范例多

- （三票）[P2024-11] Swarm Intelligent Doctor: Medical Auxiliary Diagnosis 群体智能医生:医疗辅助诊断

- ~~（两票）[P2024-12] An Explainable Recommender System 一个可解释的推荐系统~~
- **[2]**（三票）[P2024-14] Body Language Detection-Based Emotionally Controlled Music Player 基于肢体语言检测的情感控制音乐播放器
  - 纯兴趣，介绍短所以可能很多规范指标可以自己决定 （虽然我感觉这种更不好做）
- **[1]**（六票）**[P2024-16]** Online Virtual Dressing Room with Advanced Try-On and Clothing Retrieval Features 在线虚拟更衣室与先进的试衣和服装检索功能
  - 指导老师好，发挥空间大，指标详细，有表明部分辅助工具
- （一票）[P2024-19] Logic Diagram Generation Software 逻辑图生成软件
- 统一模板，各自制作CV

Unify template, make their own CV

- 任务分配（ddl: 10.8开会前）:
- Zhihao Cao for P15
- Zixin Ding, Peini She, Changhao Huang: Bidding for P14
- Jinghao Liu, Zihan Zhou for P08

Content ②

- 互相check bidding中是否有不恰当需要改进的地方
  - WPS开共享共同编辑敲定
- 统一模板和用词，检查内容并压缩
  - By Zixin Ding
- 在GitHub查找类似项目
  - https://github.com/MetalStrikerXLR/Virtual-Fitting-Room
  - https://github.com/Winphillips/Gesture-Controlled-Audio-Software
  - https://capstone-csce.uark.edu/fall-2022-spring-2023/team-13-19-fa22/team-19-gesture-controlled-audio-software/
- 创建Github和Gitlab的组
  - By Zhihao Cao
- 提交 2024.10.8 21:55

下次meeting前任务

- 全员学一下深度学习（链接在Other部分）
- 可以了解一下项目相关

Other

1. git 教程：
   a. https://liaoxuefeng.com/books/git/branch/create/index.html
2. P16相关项目参考
   a. https://github.com/MetalStrikerXLR/Virtual-Fitting-Room
   b. https://github.com/Winphillips/Gesture-Controlled-Audio-Software
   c. https://capstone-csce.uark.edu/fall-2022-spring-2023/team-13-19-fa22/team-19-gesture-controlled-audio-software/
3. 深度学习资料
   a. https://zh-v2.d2l.ai/

GENERIC BID PROPOSAL

Project Name	[P2024-16] Online Virtual Dressing Room with Advanced Try-On and Clothing Retrieval Features		
Est. Start Date	October 7, 2024	Est. Finish Date	April 22, 2025
Team Leader	Zhihao Cao	Group Name	Team2024.07
Email	scyzc10@nottingham.edu.cn	Contact	19123753540
team member			

Outline (Project purpose)	The purpose of this project is to make use of machine learning, computer vision (target tracking and detection) and image processing technology to meet the needs of customers to realize accurate changing online (virtual) through the camera and other related basic equipment, and then search the clothes related to the needs of keywords so as to better serve the diversified and convenient and accurate changing needs of customers. The aim is to be able to change clothes in an immersive way even in the changing room of a physical store		

Project understanding and analysis

For this project, our team's understanding is to use image processing technology to effectively separate people from the background, and then use machine learning and computer vision to accurately extract and analyze people's faces and limbs, and distinguish faces, limbs and torsos (this requires effective and accurate extraction of relevant features from a large number of people's full-body photos through machine learning technology). Then the torso clothes are

replaced by the clothes of the sample through image processing to achieve the effect of changing clothes. Finally, through computer vision and image processing to improve the changing room background and related sample clothing keyword classification, and to give customers keyword guidance, in order to meet the requirements of the virtual changing room project.