Hello, everyone I am Xiaoyu dong. welcome to our presentation. I and my lovely group member Jinyue, xuesong, yilin designed a online learning management ULearn .

I will do an introduction about ULearn and our design procedure.

In the first tutorial of Week 2, as a group, we create our first PDS after brainstorm ideas. At that time, we hope we can create a powerful system having all functions. But according to the limited time and resources, we decided to focus on live-stream and recording functions for student in university. So, we discard some unnecessary function.

User-centered design (UCD) is an iterative design process, we focus on the users and their needs in each phase of the design process.

​We individually develop initial context scenarios describing potential users of ULearn.​

Then we shared vision in the meeting and refine the context scenarios and personas.

Then we generate the functional and non-functional requirements of the target audience.​

We also revised our questionares many times to let it focus more questions about features related to the live stream and recording.(e.g. playback speed; note-taking; video quality )​, therefore we can design ULearn based on users’ needs and feedback in each phase of the design process.

we interview 40 people(37 international students and 3 local students) in accordance with the instruction of ethics and privacy principles. ​

The result shows that ​, comparing to live streaming, 62.5% are more accustomed to watch the recording, and the reason they watch recording is to review and make up for the lessons they missed.

Students prefer to set the voice speed more than 1.0 to save time. But when there are some unfamiliar knowledge points, they prefer to slow down the speed.

92.3% of users want a subtitle function, and 72.5% want to set multiple languages in the subtitle.

87.2% want to add the note-taking function, and 85% think timestamp in video function is helpful for their study and review.

​87.5% of the students feel Q&A forum is important.​

Everyone like the customized colors scheme fucntion.

60% of users prefer the 1080p video quality.

According to the interview data, we refine our a)PDS, a)Context Scenarios and c) Functional and non-functional Requirements again. This reveals the iterative User-centered design in our design work again.

we conclude that note-taking function, customized speed setting function, multi-languages subtitle function, and customized color scheme function should be added in ULearn.

Based on the above work, we developed the low fidelity paper prototype using Balsamiq.

Then we conduct 10 usability tests using our prototype. We prepared and consolidated an issues table.

After discussion, we review the overall issues table and assign priorities to the issues. And redesign our prototype. iterative User-centered design work through our design procedure.