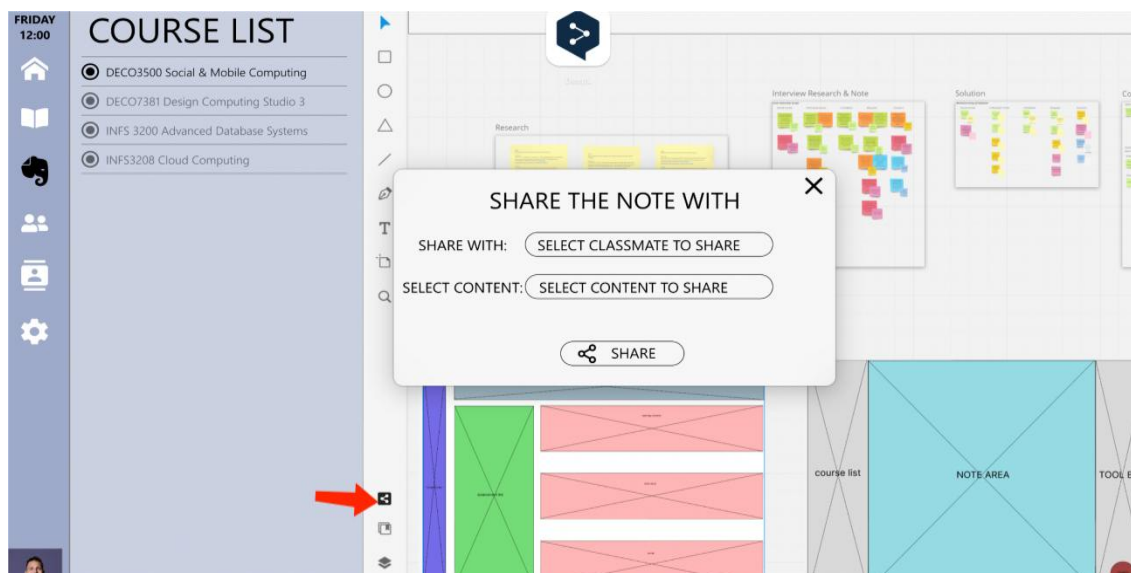


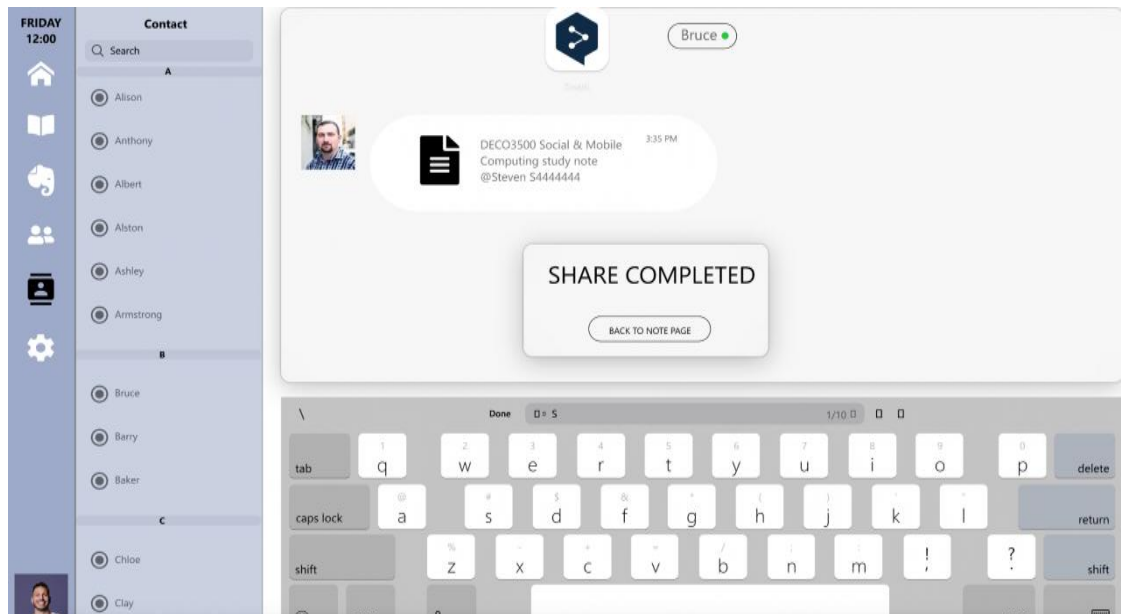
Real-time activity representation -direct

Write notes and share notes function

This function is related to the social concepts is awareness and coordination. Where collaboration also includes single-user or multi-user control.

This feature focuses on writing study notes for classes, just like " MIRO ", a real-time, multi-person online platform. Users of the online education platform can leave your thoughts in this area at the same time. This real-time interaction reduces the regret of not being able to communicate face-to-face, and also enables the function of sharing ideas in class with classmates in real time. For users who are hesitant to ask tutor questions, this way may help them more intuitively, and this way can improve the user's sense of communication and increase the sense of collaboration with the team. In the construction of this feature, we also support the sharing of users' study notes.

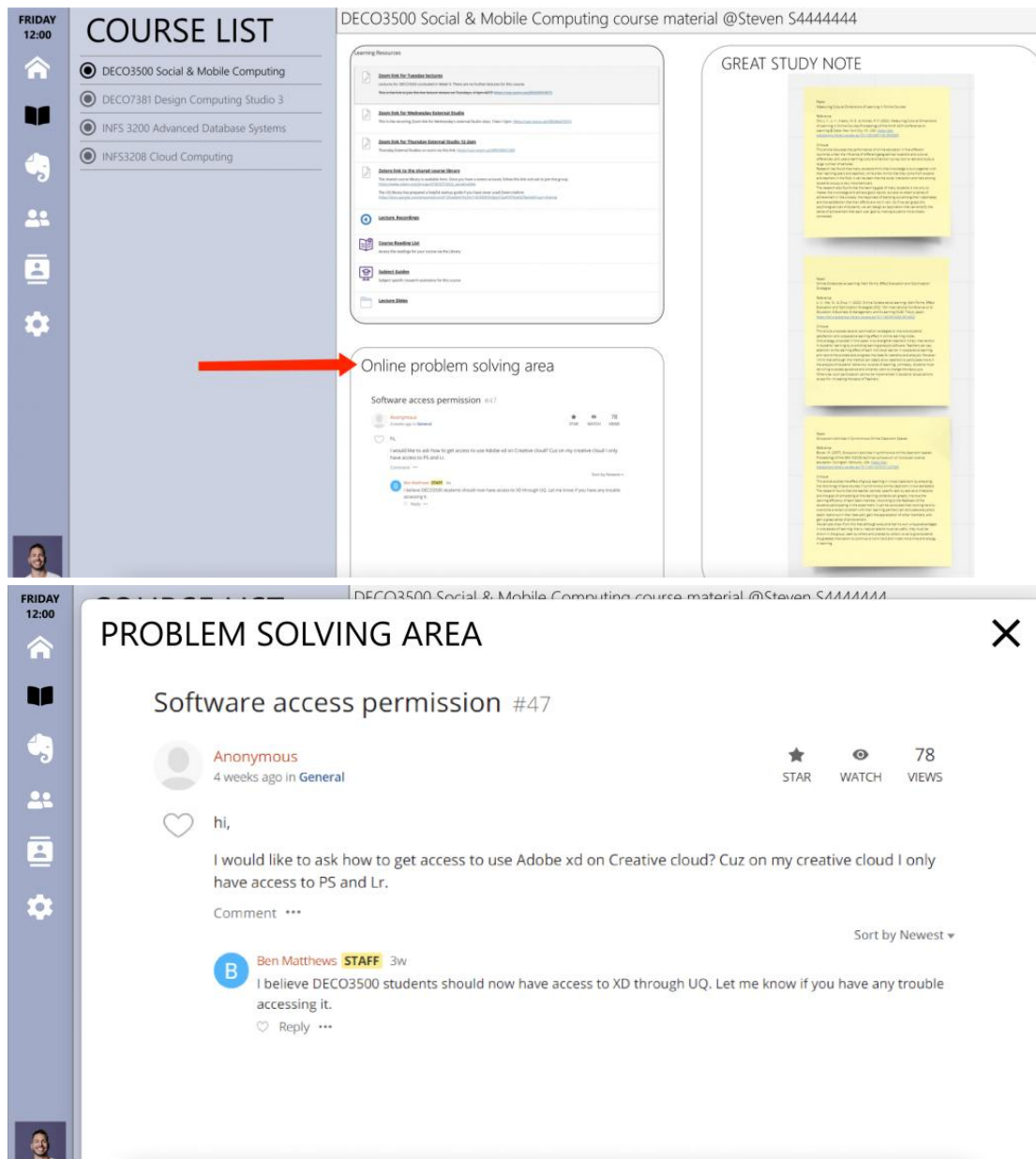




Real-time activity representation -direct

“Ask question” online feature

This feature relates to social concepts of focus, collaboration and communication. The purpose of this feature is to help students solve problems in the most efficient way. The user selects the course to ask a question in the platform and will be taken to a text box panel where the user first selects whether to make the question public in the title bar and selects the general scope of the question. In the text box below you can choose to submit a copy of the image, file, etc. for uploading to the platform. Usually it is not only the tutor of the course who answers the question, but also your classmates can reply to you if they have relevant experience, and by the time the tutor sees the question and the answer, the tutor can help check whether the classmates' answers are true. This is a real-time answer function, because the platform online users can reply to your questions, in the process of users using this function, not only solve the problem, but also increase the ability to collaborate with classmates.



Real-time activity representation (described)

Documentation ongoing features

This feature of relates to social concepts is concerned as well as more aware of learning to users. The purpose is mainly to remind users of the progress of other users. This feature relates to social phenomena because students are

often afraid of falling behind in their studies and missing the due date of their assignments.

In this page we can see in real time the progress of the completed assignments and whether the user is progressing too fast or too slow compared to other students. The tutor will also give alerts and questions if the user is too slow in completing the assignment. If the student needs help, and what kind of difficulties he or she is encountering. In the documentation ongoing feature we can see the progress of other students, for example James has finished the ASS1 work at 5pm on 10.10.2022, which will also give the user an incentive and a hint to complete the assignment. Users are usually afraid of falling behind in their learning process and missing the submission date of their assignments.

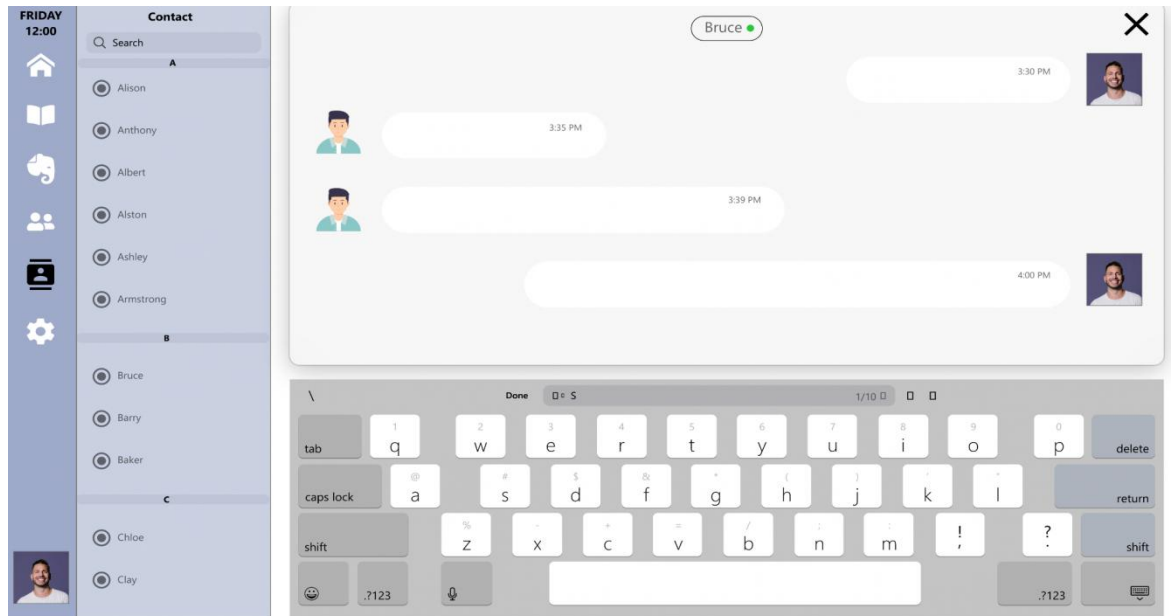
The screenshot displays a student dashboard for 'DECO 4567 Post - team xxxxxxxxxxxx'. The interface includes a sidebar with navigation icons (home, search, chat, profile, settings) and a main content area. The main area is divided into sections for 'ASSESSMENT 1', 'ASSESSMENT 2', 'Practical 1', and 'Practical 2', each showing task progress (e.g., TASK 1: XXXXXXXXXXXX 30%/100%). A 'Tutor suggestion' box on the right provides feedback: 'Progress is slow and needs to be accelerated. The first part of assessment 2 contains errors that need to be corrected. The first part of assessment 2 contains errors that need to be corrected. 2 contains errors that need to be corrected.' Below the assessment sections, a 'DOCUMENTATION ONGOING:' section shows a list of documents with titles like 'LEBRON JAMES @S44444444: complete the background part of assessment 1 @5:00pm 11.20'. A red arrow points to the 'DOCUMENTATION ONGOING:' section. At the bottom, there is a 'LEAVE MESSAGE' button and an 'ADD NEW DOCUMENT' button.

Real-time availability / “presence”

Social online status function: Talk to your friends

The feature relates to social concepts is communication and awareness. In the process of socializing with classmates, users can not only see the course

information of other users, but in the chat interface, they can clearly and explicitly observe whether their friends are online or not, which is a feature that shows the status of users in real time. If a friend is shown as online it is likely that the response time and speed will be faster, if a friend is shown as not online it may mean that the friend will not respond in a short time.

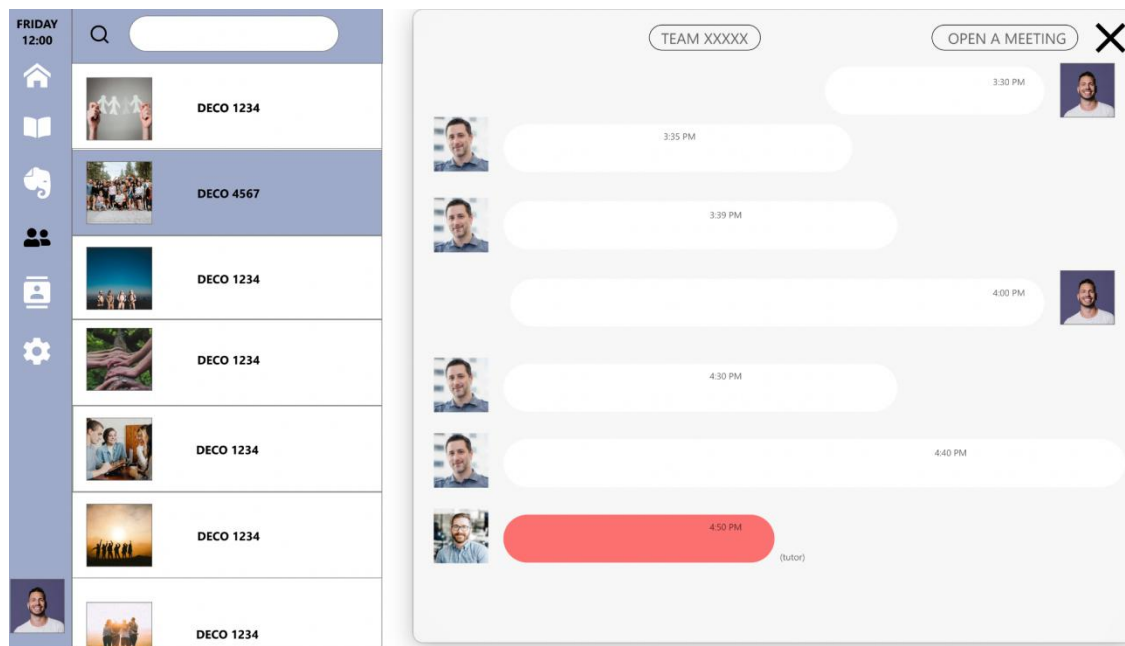


Social online status function: Talk to tutor

This feature of relates to social concepts is more attention, communication awareness and provides more learning awareness to users. The purpose is mainly to remind users to update the learning content, the function Relates to social phenomena is that students are often afraid to miss the teacher's reply and want to communicate with the tutor at the first time the message is received.

The tutor's online status is not only visible when talking to the tutor, but when the tutor responds to a question, the chat box turns a striking red color to remind the user of the importance of the message. tutors are usually very busy at work, so the striking color difference is used to alert the user because students are often afraid of missing the tutor's answer time. It can take a long

time to wait for the tutor's next reply.



Social recommendations

Recommended study notes function

Tutor can encourage students to complete good quality study notes by selecting the best ones from the publicly available study notes for display. Also the most shared public notes will be displayed in this area first, and viewers can see the number of users who have liked the note and how many users have shared it, and the number of downloads of the note will also be displayed in the interface.

assignment in total, which may be due to a lack of mastery of the knowledge. Users should consider spending more time reviewing previous learning points, such as watching other people's study notes to check if there are any confusing points.

Connecting/maintaining connections

“Following” (one way; a bit like lurking or stalking)

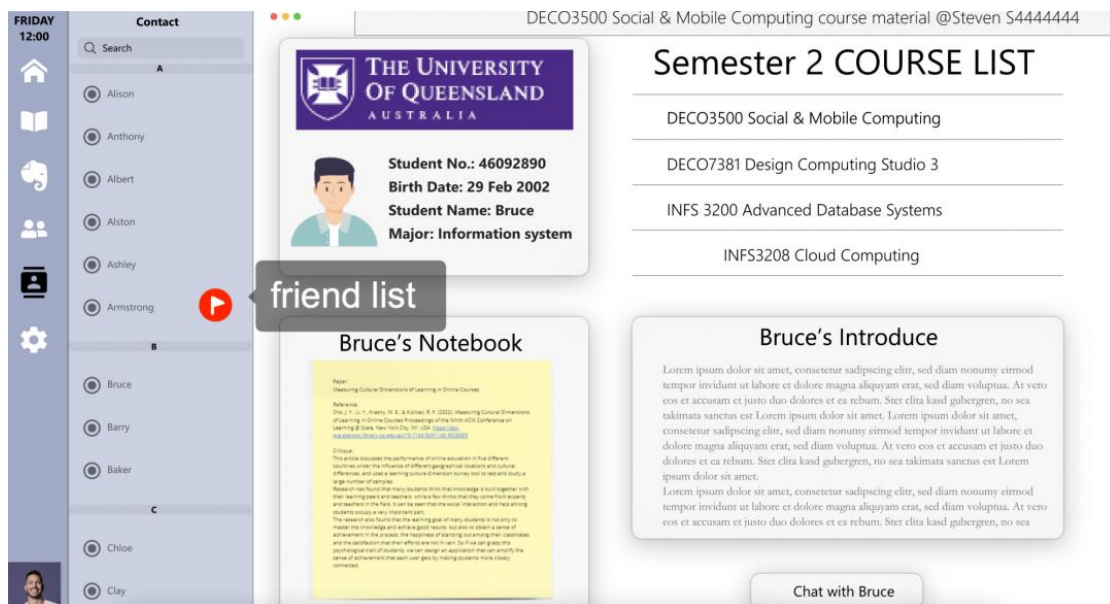
It is possible to unilaterally follow and like other users in the site, and to unilaterally follow/favorite study notes shared by other users only. Following unilaterally does not allow for a private chat function, nor does it allow for sharing activities and favorite notes.

“Friending” (mutual; requires two-way consent)

The site allows you to establish a stable friendship relationship, when users make both sides follow or agree each other to become friends, users can share favorite notes, invite friends to meet, private chat function and send voice function through the site, and also see the online status of friends.

Friend lists

In this site, when both parties agree to the other user becoming a friend, the user can find that friend in friend lists.



Friend groups

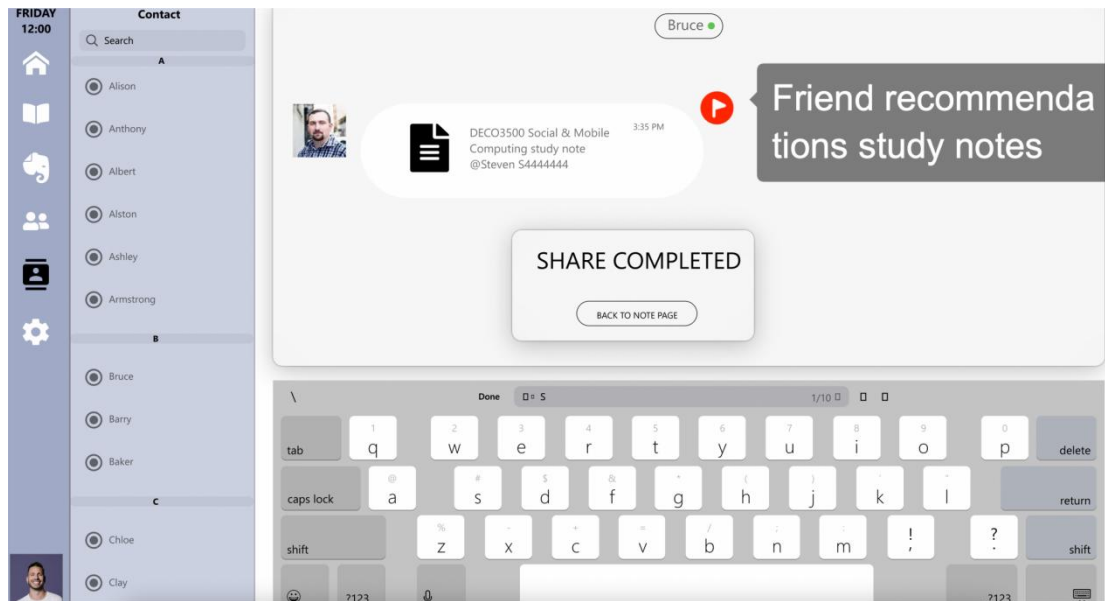
In this site, you can pull your friends into a group chat when both parties agree to be friends.

Course group

Even if they are not friends, but they are taking the same course in the same semester, they can access the course group to share and ask other users questions. Adding other users as friends is supported in the course group.

Friend recommendations

Priority to see the progress of completed assignments shared by your friends, provided that they have shared their progress status publicly. Friends can share favorite notes and invite friends to MEETING.



Historical activity traces

In the live classroom notes sharing platform, users have the option to make their notes public. Other users can see the notes and comment on them, but they cannot change the user's notes. Other users can modify the source file of a note if they have granted permission to do so.

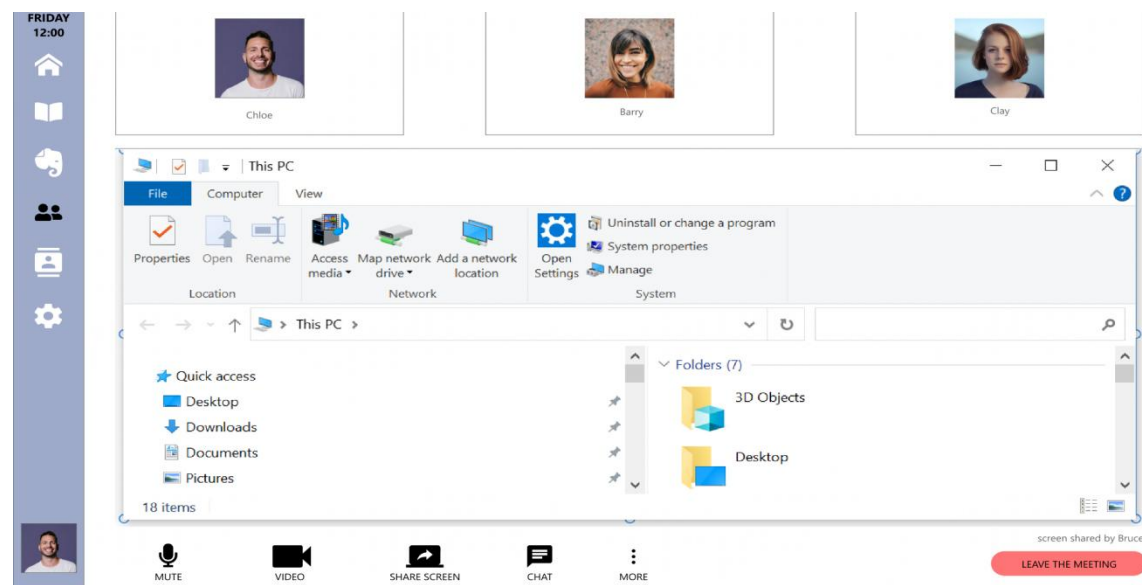
See-What-I-see

Meeting function

The purpose of this function is to help users communicate with tutors in a timely manner and get answers from tutors as quickly as possible.

In the social interface, you can talk with the tutor and click open the meeting in the upper right corner of the conversation to jump to the meeting interface. In this interface, you can choose to invite your friends to join the meeting. In this

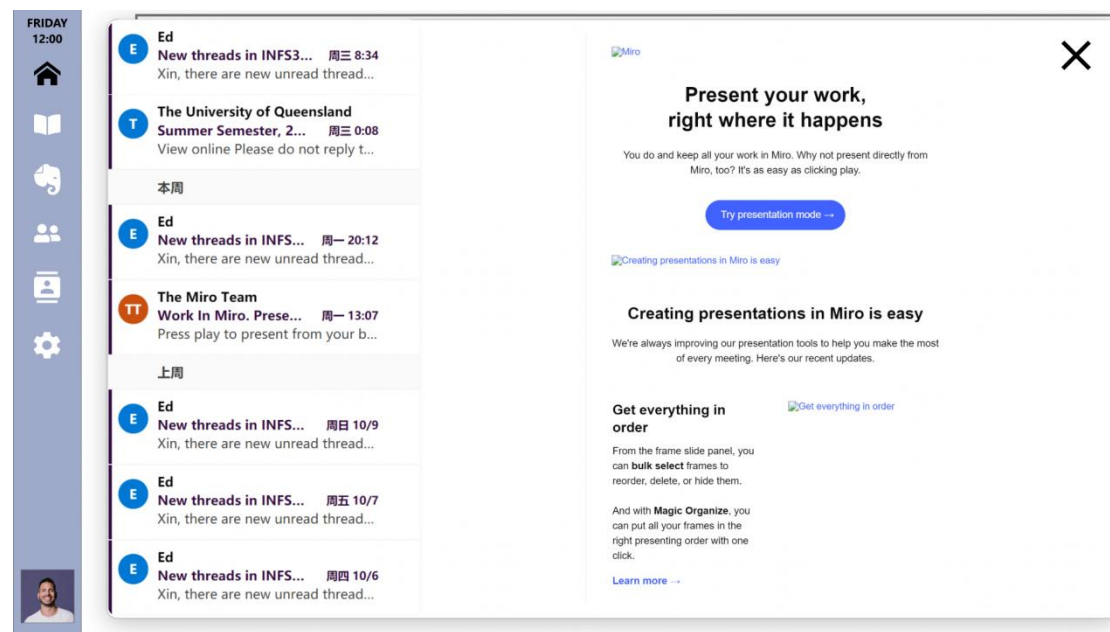
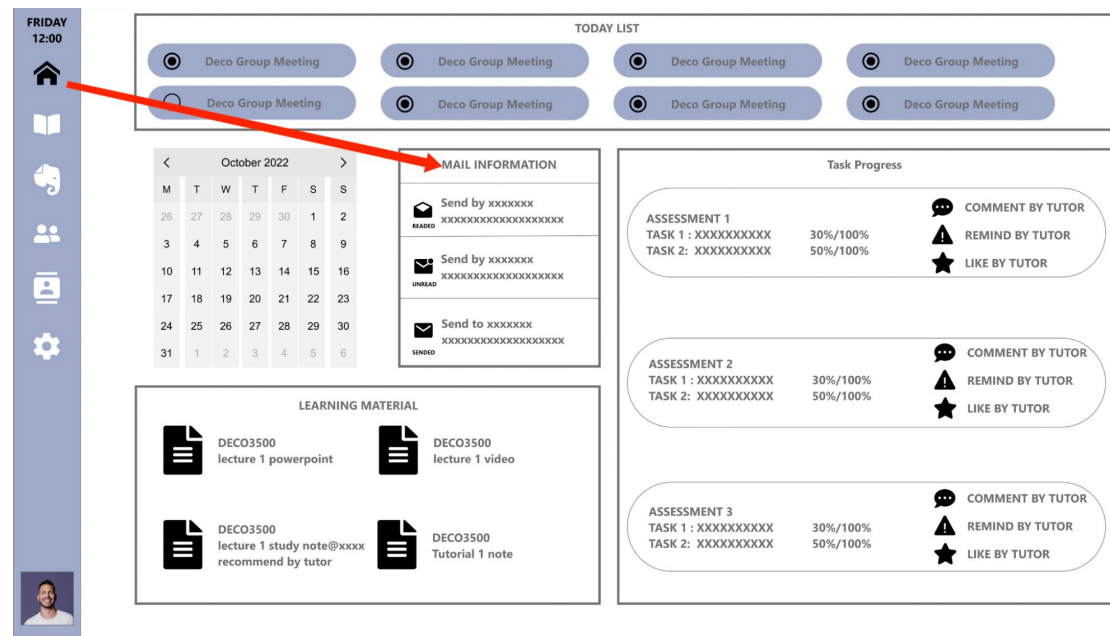
meeting, you can share your screen, open the camera, open the microphone and leave a message. Students can make clear presentations in this interface. This feature allows the tutor to see the student's current learning progress more visually and the student can ask questions in real time. Such a feature can avoid missing the answer time with the tutor.



Find e-mail function in the main interface

This feature relates to social concepts is more attention to the user and provides more awareness of learning to the user. The purpose is to remind users of new e-mails and to avoid missing important learning materials. The main operation is to find the mail information section in the main interface and click on the mail and the corresponding area to jump to the e-mail interface. Checking emails is a necessary learning step for online education users, who often forget to reply to emails and do not see important learning emails in time. Therefore, the webpage provides the function of browsing to check emails, which will disguise the user to prompt them to browse the contents of their

mailbox. The icons of emails are also similar to real-world envelopes, reducing the possibility of users getting lost in the main interface. This feature is effective in reducing the need for users to jump around in multiple software and websites.



Find the Learning material function in the main interface

This feature relates to social concepts and provides users with more attention

and awareness of the learning material. The purpose of this feature is to remind users that the learning material has been updated and to avoid missing important learning material. The main interface serves as a reminder to the user, and the main operation is to click on the document icon in the learning material section of the main web interface, then the interface will jump to the corresponding course material. The interface in this section may contain PowerPoint, recorded video and text information. The document icons used in this section are based on real-world documents, which may help users to make quicker choices.

The image displays a web application interface with a sidebar on the left and a main content area. The sidebar includes a header with 'FRIDAY 12:00' and a series of icons: a home icon, a book icon, a speech bubble icon, a group of people icon, a document icon, and a gear icon. At the bottom of the sidebar is a user profile picture.

The main content area is divided into several sections:

- TODAY LIST:** A row of eight buttons, each labeled 'Deco Group Meeting'. The first button has a radio button selected.
- Calendar:** A calendar for October 2022. The days of the week are M, T, W, T, F, S, S. The dates 26 through 31 are listed.
- MAIL INFORMATION:** A section with three email entries. Each entry has an icon (envelope with a checkmark for 'READ', envelope with an exclamation mark for 'UNREAD', and envelope with a checkmark for 'SENT') and text: 'Send by xxxxxxxx', 'Send to xxxxxxxx', and 'xxxxxx'.
- Task Progress:** A section with three assessment entries. Each entry has a title (ASSESSMENT 1, ASSESSMENT 2, ASSESSMENT 3), two tasks (TASK 1, TASK 2), and progress bars (30%/100%, 50%/100%). Each entry also has three icons: a speech bubble (COMMENT BY TUTOR), a triangle (REMIN BY TUTOR), and a star (LIKE BY TUTOR).
- LEARNING MATERIAL:** A section with four document icons. Each icon is labeled with 'DECO3500' and a description: 'lecture 1 powerpoint', 'lecture 1 video', 'lecture 1 study note@xxxx recommend by tutor', and 'Tutorial 1 note'. A red arrow points to this section from the left sidebar.

Below the main content area is a detailed view of a lecture slide. The slide has a dark background with the title 'Social & Mobile Computing' and the subtitle 'DECO3500 Ben Matthews'. The slide is titled 'Week 1 Lecture slides - introduction, history of interaction' and has a close button (X) in the top right corner.