

Improving the accessibility can not only help disabled people and people with learning/cognitive impairments but also make it easier for all users to interact the interface.

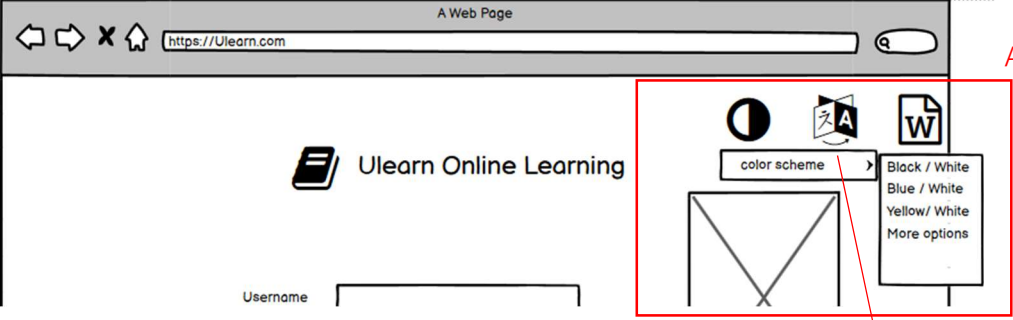
ULearn is a Keyboard-Friendly website based on some techniques, therefore users can use arrow key to select which item they want to use. So visually impaired people can use screen reader function without the use of mouse. It also works for Physically impaired users.

Course page:



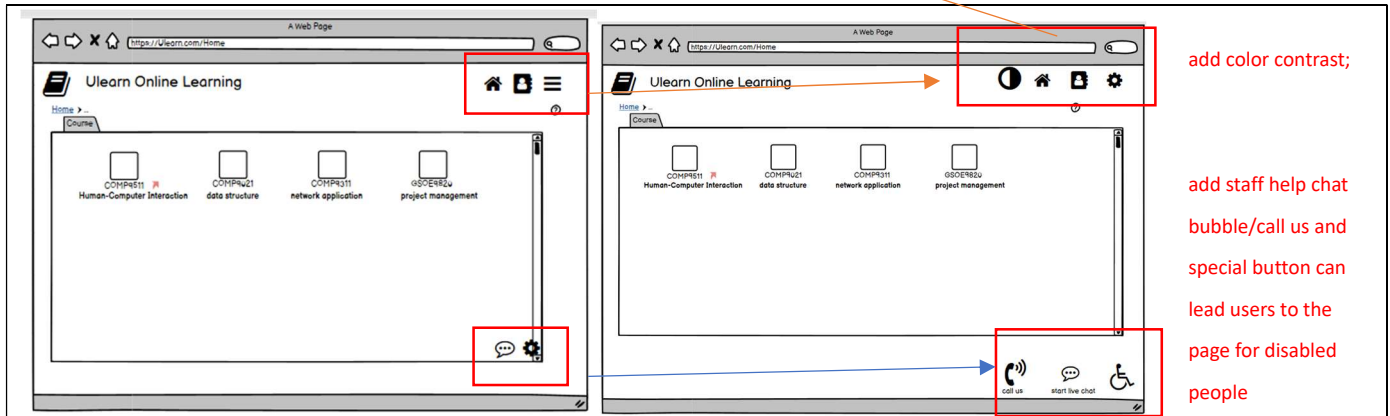
Use different icons(computer monitor/play button/book/ chat bubble) to replace the original same block.

Accessibility need	For people who has visual impaired or Dyslexia.
Description	Icon which is match the system with the real world can also improve visibility.
Task scenario	Go to see the forum page. Go to see the recording page.

 <p>Add three function:</p> <ol style="list-style-type: none"> 1. change color scheme 2. change language 3. font type/size/color setting <p>Tooltip information of "color scheme"/" language"/ "font" pops up after the icon is selected.</p>	
Accessibility need	<p>color contrast; font color/size : For people who has color blindness, visual impaired or dyslexia.</p> <p>Language change: For users who are not familiar with English, and feel they have dyslexia on it. E.g. Some Chinese people feel they have dyslexia on English word, because English words are different from Chinese character's shape(Chinese character has same feature of a draw, but English words are made of letters).</p> <p>Font: Adjust to some font type more friendly to people with dyslexia. e.g. Free Dyslexia Font, Arial, etc. Can also adjust font size and font color.</p>
Description	<p>The original color scheme is black/white, which enables the color contrast largest. Users can adjust to any color contrast they want by the color contrast and font color function.</p> <p>When users click on each setting, there is a Drop-down menu or on/off switch about different detail setting.</p> <p>Users can change these three settings at any time they want, so these four function will be added in all pages(but may embedded in different menus).</p>
Task scenario	<ol style="list-style-type: none"> 1. Change the color scheme from the original setting to yellow/white. 2. Change language from English to Chinese 3. Change font color to red

Remove hamburger menu,

put setting icon in the right top corner

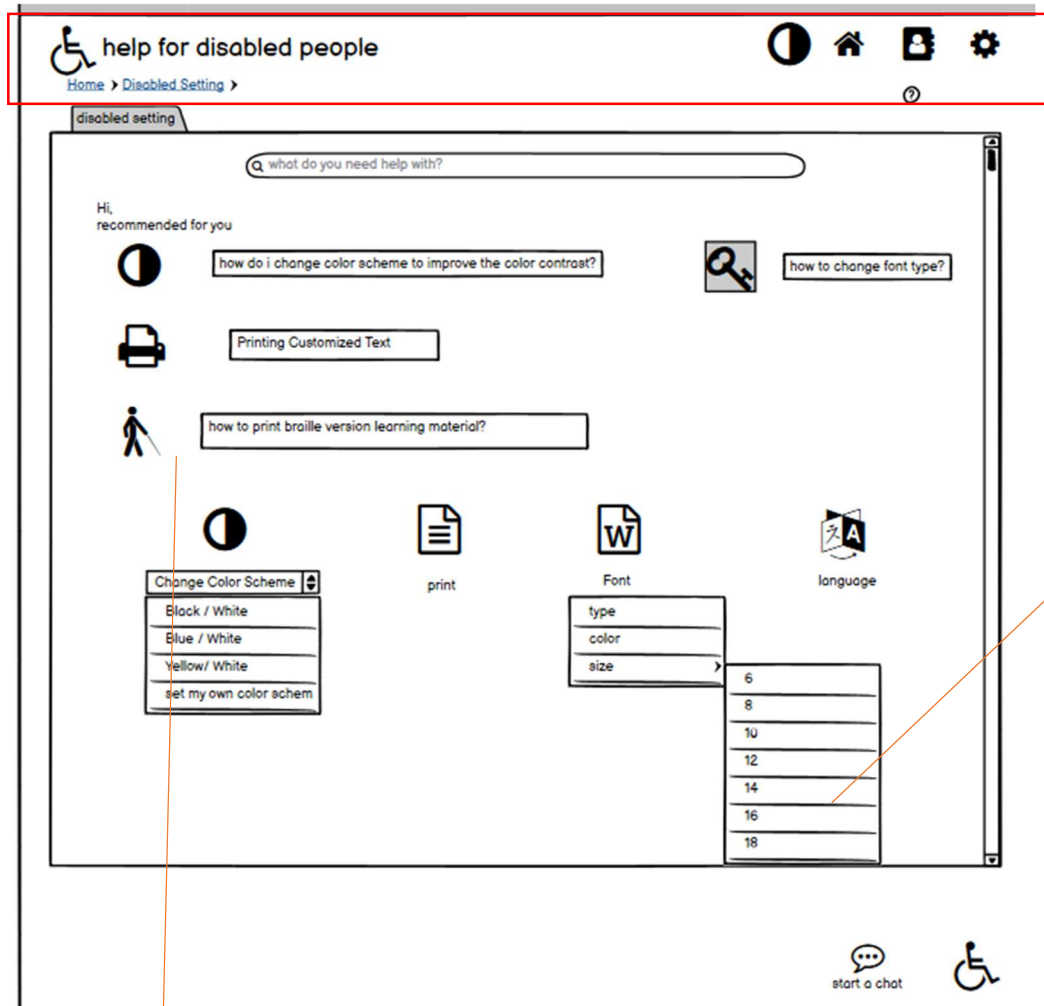


add color contrast;

add staff help chat
bubble/call us and
special button can
lead users to the
page for disabled
people

Accessibility need	<p>color contrast: For people who has color blindless, visual impaired or dyslexia.</p> <p>Call us/ start chat box: incase the disabled users unable to find where they can change relevant setting, so they can get the help from staff immediately.</p>
Description	<p>As color contras and contact function must be provided to users at anytime, so these functions will be permanent according to principle of efficient .</p> <p>Call us/Chat box and special page for disabled people can make users Satisfying. Make it more convenient for them to get help from professional staff.</p> <p>The special button for disabled people will lead users to the webpage of all setting directly.</p> <p>Move most icon/button at the right up corner, easier for users to find where they are. These function can layout will be permanent in every page, including the forum.</p>
Task scenario	<ol style="list-style-type: none"> 1. Chat with staff of ULearn. 2. Call staff 3. Go to page for disabled people directly.

Add a special page of service for people with disability



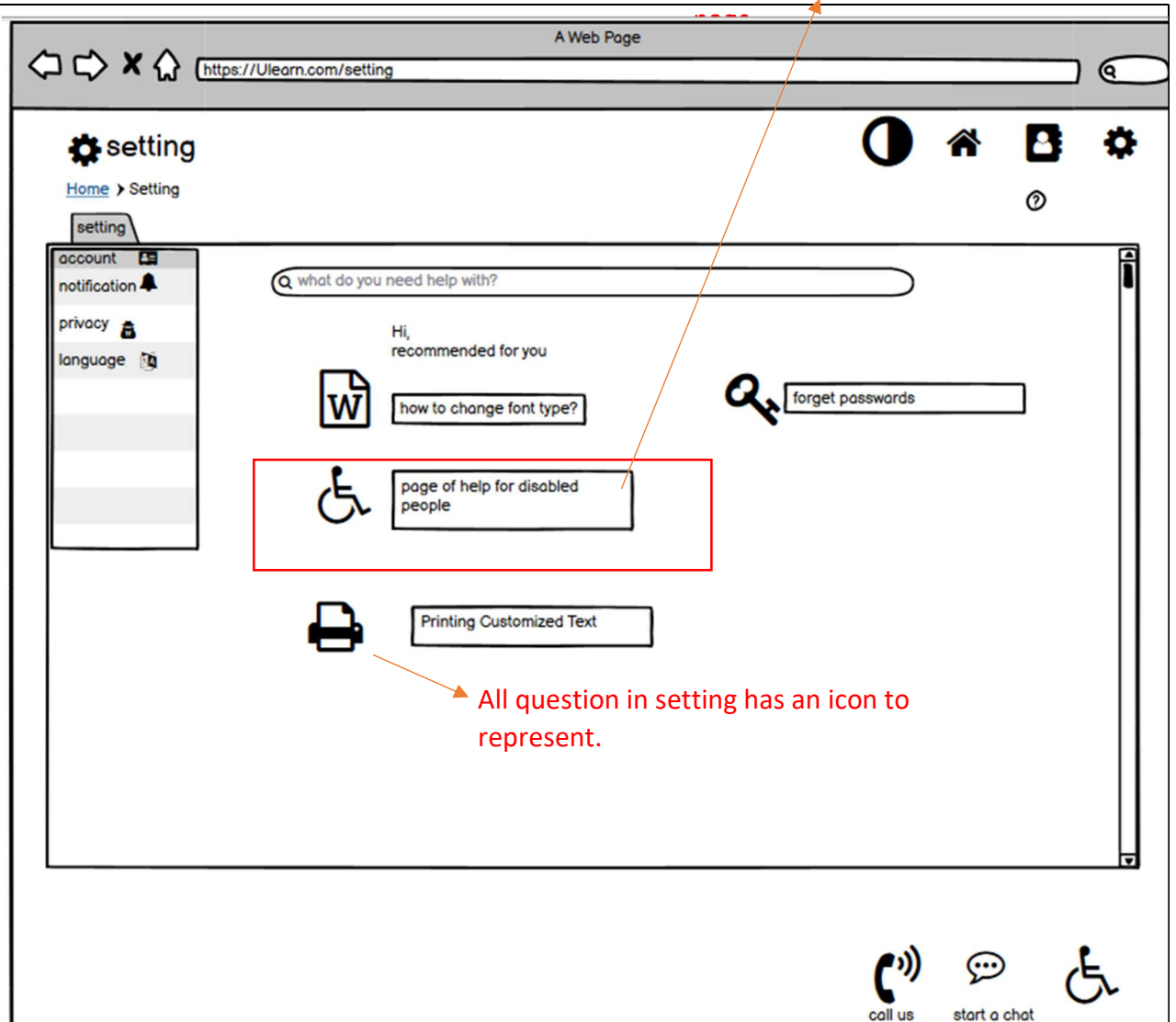
All the drop-down list boxes are popped up when the icon is selected.

All question has an icon, easier to understand for low visual or dyslexic people

*In this picture, all list are dropped down just for show

Accessibility need	<p>Some functions has been discussed in other table.</p> <p>Print function : For people who has physical disabled/visually/ hearing impaired.</p>
Description	<p>Make disabled users satisfying according to principle of Help & documentation, relevant help are more accessible to them .</p> <p>There is a search bar that users can quickly search what they need.</p> <p>Recommendation for some questions that people with disabilities may concern (recognize rather than recall).</p> <p>When the icon is selected, there will be drop down menu to choose the setting</p> <p>When click the icon of print in this webpage, there will be a documentation introducing how to download webpage and learning material/ chat history between student and teachers in larger scale or bigger color contrast; how to print braille version learning material. For people who inconvenient to use computer, they can also print it to read.</p> <p>Users who have dyslexia in English can change system language to their mother tongue.</p>
Task scenario	<ol style="list-style-type: none"> 1. Change the font size as 8 . 2. Change font color to be red.

a quick link to the page of disabled people in setting



All question in setting has an icon to represent.

Accessibility need	Make all kind of disabled people find their page more efficiently.
Description	Add a setting page, a quick link in it and unique icon for each question can make the content more accessible to disabled users.
Task scenario	In the setting page find the link to the page of help for disabled people.

Learning material download page:

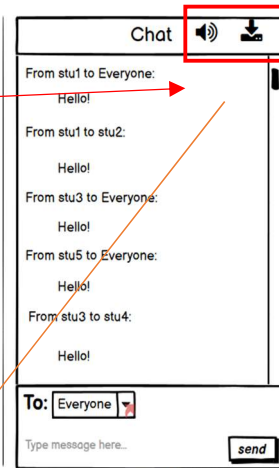
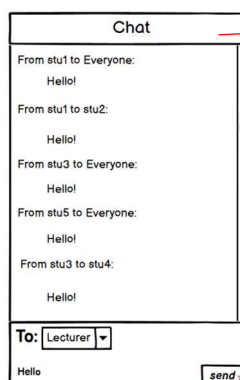


When download the learning material, there is a braille version to download and print.

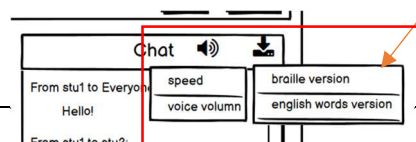


Accessibility need	For visually impaired people.
Description	Users can download the braille version material, then print it with special printer and read it with hand.
Task scenario	Download the braille version of learning material of Lecture 1.

Chat box in Live stream and recording page:



Add a chat reader and download option

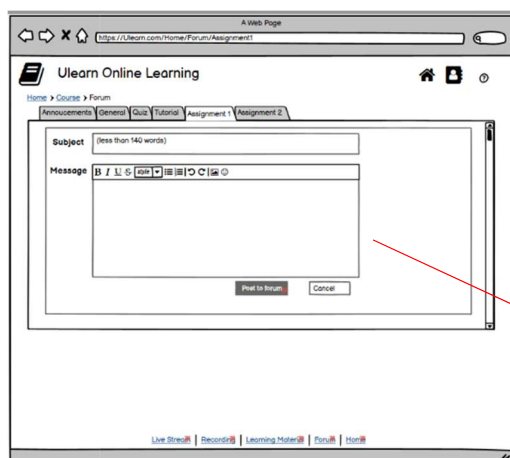


When the button is selected, drop-down menu pops up

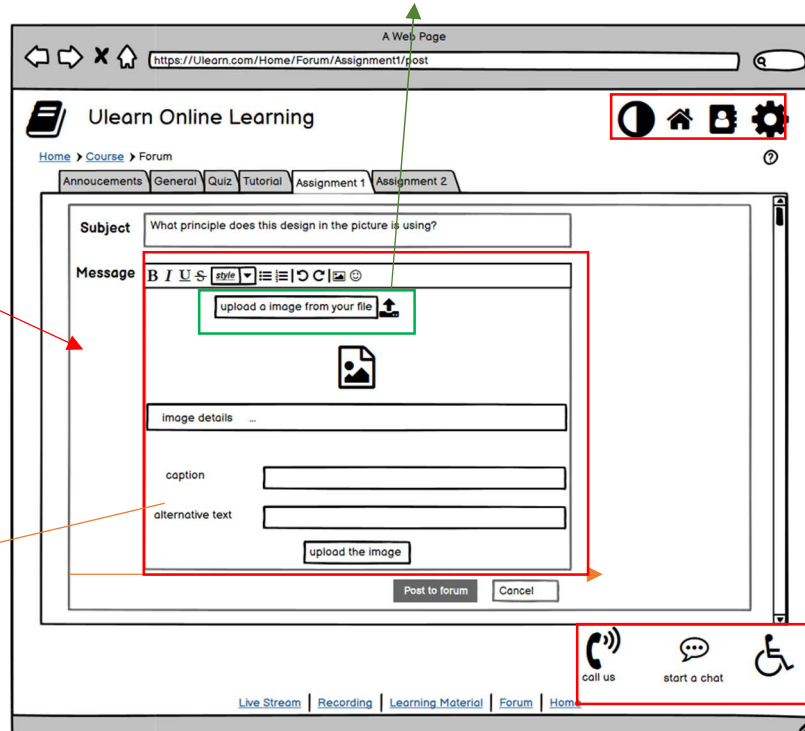
Accessibility need	For visually impaired people and people with dyslexia.
Description	<p>When Users with dyslexia or visually impaired needed, they can turn off the voice of teachers and set the speed and voice volume of the chat reader, and then listen to the chat.</p> <p>Users can download the chat and then print it with larger font size or download the with special machine and read it.</p>
Task scenario	<ol style="list-style-type: none"> 1. Download the braille version of the current chat. 2. Turn on the reader function for the chat, and set the voice volume as 120%.

Forum page:

Upload from file (no Drag and drop)



Caption can alternative text for image/gif



Accessibility need	For visually impaired; color blindless people; people with Photosensitive epilepsy
Description	In the original prototype, we didn't design alternative text about image/gif at all. But we need to consider some people unable to see the image or the strong flash in the gif will result in epilepsy on them. So whenever students or teaching teams post a image/gif, the system in forum requires the user input the alternative text as a description or an alert.
Task scenario	Upload a picture in your post with a caption and an alternative text.