

Video Chat tool prototype for Sakai

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Task 1 – Setting up the video chat

Students of the Sakai class enter the chat room. A small screen appears to the side to show who is in the room. There is a box at the bottom of the screen that allows students without microphone capability to type while other students can talk. The control to talk is either push to talk or hands free in order to accommodate users with noisy backgrounds or hands free in which the microphone is on all of the time. The assumption is that all students will have sound capability.

The grey box is the whiteboard area. The coloring is grey because it is not in use. The whiteboard can be used to post documents or the brainstorm ideas. Students have the ability to edit documents as well.

The screenshot displays the Sakai Learning Communities & ePortfolios interface. At the top left is the Mizzou logo and the text "Mizzou Learning Communities & ePortfolios". A "Logout" link is in the top right. Below the header are navigation tabs: "My Workspace", "Designing CSCW FS09", "Digital Media Zone", and "Web App 1 FS09". The main content area is titled "Chat Room". On the left is a vertical sidebar with buttons for "Home", "Announcements", "Resources", "Assignments", "Gradebook", "Chat Room", "Wiki", "Email Archive", "Site Info", "Discussion and Private Messages", "Activity Monitor", and "Help". The main chat area shows "Currently viewing messages for 'Main Chat Room'" and volume controls for "Speaker Volume" and "Microphone volume". A large grey "Whiteboard" area is in the center. On the right, a "Users in Chat" section shows three video thumbnails. Below the thumbnails are controls for "Push to talk" and "Hands free talk". At the bottom right, there are buttons for "Switch user control" and "Share document". The bottom status bar shows "Done" on the left and "sakai.missouri.edu" on the right.

Task 2 - Co-editing of a document

Participants in the video chat can open documents to edit. The editing feature also has a similar utility as whiteboards and is controlled by the toolbar found to the right of the screen. Meaning, mark up does not have to follow strictly MS WORD capability. Editors can mark through and write ideas similar to pen an paper editing. The software will take the edits as snapshots of the screen to capture the edits for future reference. In addition, there is a print function on the toolbar that allows users to print the screen with mark-ups.

The screenshot displays the Sakai Learning Communities & ePortfolios interface. At the top left is the Mizzou logo and the text "Mizzou Learning Communities & ePortfolios". A "Logout" link is in the top right. Below the header is a navigation bar with tabs for "My Workspace", "Designing CSCW FS09", "Digital Media Zone", and "Web App 1 FS09". A "Chat Room" tab is active, showing "Currently viewing messages for 'Main Chat Room'".

On the left is a vertical menu with buttons for Home, Announcements, Resources, Assignments, Gradebook, Chat Room, Wiki, Email Archive, Site Info, Discussion and Private Messages, Activity Monitor, and Help. Below this menu, "Users present:" lists Mai Charoentham and Susan German.

The main content area is a whiteboard titled "Whiteboard" containing a table and SQL queries. A large black 'X' is drawn over the table. The table has columns: respID, username, questionID, answer, responseTime. The data rows are:

respID	username	questionID	answer	responseTime
1	AAA	1	3	Oct 1 2008 11:12:58 AM
2	AAA	2	2	Oct 1 2008 11:12:59 AM
3	BBB	1	2	Oct 3 2008 10:25:59 AM
4	BBB	2	2	Oct 3 2008 10:25:59 AM
5	CCC	1	1	Oct 4 2008 08:12:44 AM

Below the table, a question asks for a SQL query to retrieve all records from the tblResponse table. The provided SQL is: `SELECT * FROM (tblResponse)`. Another question asks for a SQL query to retrieve only DISTINCT username values (AAA, BBB, and CCC) instead of AAA, AAA, BBB, BBB, and CCC. The provided SQL is: `SELECT DISTINCT ColumnNames`.

On the right side, there is a "Users in Chat" section with three video thumbnails. Below the thumbnails are controls: "Push to talk" (a black square), "Hands free talk" (a lock icon), "Switch user control" (a black square), "Share document" (a black square), and "Upload from file" (a blue button). A toolbar with various icons is also visible.

At the bottom, the status bar shows "Done" on the left and "sakai.missouri.edu" on the right.

Task 3 - In control of the edits

The user whose picture is slightly bigger than the other pictures is in control of the editing work .

Other group members can have control of the screen. A user can press the button that is marked switch user control. The signal will be sent to the user in control that there is a request for control of the editing features. The user in control grants permission, and the pictures switch size to indicate that editing control has been given to a new member of the group.

The screenshot shows a web-based chat room interface. At the top left is the Mizzou logo (a tiger head) and the text "Mizzou Learning Communities & ePortfolios". In the top right corner, there is a "Logout" link. Below the header, there are navigation tabs: "My Workspace", "Designing CSCW FS09", "Digital Media Zone", and "Web App 1 FS09". The current page is titled "Chat Room".

On the left side, there is a vertical menu with buttons for: Home, Announcements, Resources, Assignments, Gradebook, Chat Room, Wiki, Email Archive, Site Info, Discussion and Private Messages, Activity Monitor, and Help. Below this menu, it says "Users present:" followed by a list of names: Mai Charoentham and Susan German.

The main chat area displays "Currently viewing messages for 'Main Chat Room'". It includes volume controls for "Speaker Volume" and "Microphone volume". A whiteboard is visible with a picture of two deer and the text "What if we use this picture?". Below the whiteboard, it says "Whiteboard".

On the right side, there is a "Users in Chat" section showing three user avatars. The largest avatar is a woman with dark hair. Below the avatars are two buttons: "Push to talk" and "Hands free talk".

At the bottom right, there are two buttons: "Switch user control" and "Request Control". The "Request Control" button is highlighted with a blue border. The bottom status bar shows "Done" on the left and "sakai.missouri.edu" on the right.

Task 4 - Missed chat archives

If a group member could not be available during a chat time, it is still possible for them to review the chat of the group. This will help keep student groups in sync with each other. Students can also access a written transcript of the chat if need be due to speed of connection or lack of needed accessories (speakers, etc.) The blue highlighting indicates the link for the user to click for access.

This function also would be handy for the professor/instructor of the course. The professor/instructor can review the chat sessions in order to monitor student comprehension of the material, to check how well students are working together, and to check progress on projects assigned. Since educational situations should not be competitive, students will be able to access all archives of all groups.

Chats will save automatically by group number (1, 2, ..) and within each group, the chats will be organized by dates in order to help users find the archive they need.

The screenshot shows the Mizzou Learning Communities & ePortfolios interface. At the top left is the Mizzou logo (a tiger head) and the text "Mizzou Learning Communities & ePortfolios". In the top right corner, there is a "Logout" link. Below the header, there are navigation tabs: "My Workspace", "Designing CSCW FS09", "Digital Media Zone", and "Web App 1 FS09". The "Chat Room" tab is selected. On the left side, there is a vertical menu with buttons for "Home", "Announcements", "Resources", "Assignments", "Gradebook", "Chat Room", "Wiki", "Email Archive", "Site Info", "Discussion and Private Messages", "Activity Monitor", and "Help". The main content area is titled "Chat Room" and shows "Currently viewing messages for 'Main Chat Room'". There is a "View" dropdown menu set to "Date and Time" and a "Past 3 days" dropdown. Below this, a message states: "All chat messages are archived and can be read by any site participant." To the right of this message is a "Users in Chat" section. The main chat area displays three archived chat entries, each with a date and a link to a "Written transcript":
Archived video chat for group 3 - [October 30th, 2009](#) Written [transcript](#)
Archived video chat for group 5 - [October 13th, 2009](#) Written [transcript](#)
Archived video chat for group 5 - [October 14th 2009](#) Written [transcript](#)
At the bottom left, under "Users present:", there is a list of names: "Mai Charoentham" and "Susan German". The bottom of the browser window shows "Done" and the URL "sakai.missouri.edu".