

# CS 30700 Group 10 (Synchronous): Sprint Retrospective 2

Group Members: Ryan Borzello, Kevin Wu, Saksham Jain, Shreyas Iyengar

## 1. What went well?

We were able to finish all of our assigned user stories, and we were able to do extensive testing for functionality and performance. We finished our user stories well on time, and successfully presented our demo for this sprint. We were also able to get the testing requirements in on time, and we really kept the same energy and determination going through this sprint. We also maintained steady communication and really helped each other through these obstacles.

## User Story 1

As a user, I would like to be able to change my nickname in my workspace so that other users can see who is making changes.

Tasks	Time	Assigned to
Create UI button that allows for changing nickname	1 Hour	Kevin/Ryan
Create textbox to input desired nickname	2 Hours	Kevin/Ryan
Check if nickname is in use, and display error message if true	2 Hours	Kevin/Ryan
Manually test if the nickname updates, and doesn't update on error	2 Hours	Kevin/Ryan

## Completed:

There is a button next to the current user's name in the user list that allows the user to change their nickname. When the user enters their desired name and presses the confirm button, their name is changed if their new name does not conflict with any of the other existing names in the database. If there is an error, the user is shown an error message.

## User Story 2

As a user, I would like to be able to add a text document app to my workspace that synchronizes the text with all other users and shows what text I am selecting to them.

Tasks	Time	Assigned to
Find/Create a rich text document app	6 hours	Shreyas/Saksham
Put the app on the app list	2 hours	Shreyas/Saksham
Selected text should be visible to all users	2 hours	Shreyas/Saksham
Manually test all the above tasks	2 hours	Shreyas/Saksham

### Completed:

A rich text document app can be created by pressing the create pad button. After clicking the button, it will appear on the side bar, which can then be maximized on to the workspace. When a user selects some text in a document in the app, the selected text is highlighted in the user's color for all other text pad viewers. All edits made on the text are synchronized to the other users viewing the pad.

## User Story 3

As a user, I would like to be able to view and revert to a point in the history of a text document.

Tasks	Time	Assigned to
Allow for users to view previous versions of their text document	3 Hours	Kevin/Ryan
Allow for users to revert to the previous version if desired	2 Hours	Kevin/Ryan
Manually test if reverting to different previous versions all work	2 Hours	Kevin/Ryan

### Completed:

There is a history button at the top/bottom bar of a text pad. Clicking the button will direct users to a time-slider view where they can scrub the different points in history of the given document. Optionally, the document can be restored to the state being viewed. The restored state is appended to the document's history. The restore functionality was integrated as a custom Etherpad plugin. The original plugin that implemented this functionality has not been updated for 7 years, and major changes were made to it to get the restore functionality working again.

## User Story 4

As a user, I would like to be able to create rich text content in a text document app.

Tasks	Time	Assigned to
Allow users to change the font style, size, etc.	2 hour	Saksham
The changes in text design should be reflected on all user screens	1 hour	Saksham
Manually test for all of the above tasks	1 hour	Saksham

### Completed:

On the top bar of any text pad, users are able to choose the font style and size for some selected text. Upon changing it, all users are able to see the new style/size of the text. This was implemented using the `ep_font_family` and the `ep_font_size` plugins.

## User Story 5

As a user, I would like to add suggestions to sections of text in a text document app.

Tasks	Time	Assigned to
Allow for suggestions to be added	3 Hours	Ryan/Kevin
Allow for removal of suggestions	1 Hour	Ryan/Kevin
Manually test if suggestions are visible and that they can be removed	2 Hours	Ryan/Kevin

### Completed:

Suggestions/comments can be added to any text by any user. They can be replied to by any user, and deleted as well. Comments are added by selecting the text and then clicking on the add comment icon in the toolbar on the upper part of the app screen. This was done using the ep\_comments\_page plugin.

## User Story 6

As a user, I would like to create a text document app by uploading a PDF document, an Office Open XML document (.docx), or a plain text file and be able to edit the document's contents (if time allows).

Tasks	Time	Assigned to
Allow for users to upload text based files, and then edit them	3 hours	Ryan
When one user uploads a new file to text edit app, other users should be able to see the new contents, available for edit	2 hours	Ryan
Manually test for all of the above tasks	2 hours	Ryan

### Completed:

After opening up a text pad there is an option to upload a pdf or docx and convert it to text. Once the file is uploaded, it can be edited by yourself. Also, other users can see the uploaded text and edit it themselves as well.

## User Story 7

As a user, I would like to be able to download the contents of a text document app as a PDF document, an Office Open XML document (.docx), and a plain text file.

Tasks	Time	Assigned to
Allow for download of contexts of text app	4 Hours	Ryan
Allow for download of the text document app as a PDF	1 Hour	Ryan
Allow for download of the text document app as a .docx	1 Hour	Ryan
Allow for download of the text document app as a .txt	1 Hour	Ryan
Manually test that downloading for all file types works	2 Hours	Ryan

### Completed:

Upon clicking the options button in the text pad, the user can download the contents of their file in a variety of formats (including .txt., .pdf, and .docx). Clicking the download button opens a new tab in the user's browser where the download proceeds. Custom changes had to be made to Etherpad in order to export the document as .docx instead of the outdated .doc format.



## User Story 8

As a user, I would like to be able to add a chat app to my workspace so that I can communicate with other users connected to the workspace.

Tasks	Time	Assigned to
Create an app that allows users to enter text in a text box and has a button to send the message	5 Hours	Ryan/Shreyas
Allow users to send messages entered into the text box	2 Hours	Ryan/Shreyas
Allow users to see messages sent by other users in the text box	5 Hours	Ryan/Shreyas
Show the sender's name before the text of each message	2 Hours	Ryan/Shreyas
Manually test that messages can be sent and received by users	2 Hours	Ryan/Shreyas

### Completed:

There is a little chat widget bubble in the bottom right. When clicked on, it opens up the chat for the workspace. You can send messages in the textbox that is visible by other members on the workspace when sent. For messages that you receive, you can see the name of the sender. On refresh or reopening of the workspace, any previously received messages will still be shown in the chat widget.

## User Story 9

As a user, I would like to be able to add a file sharing app to my workspace so that other users connected to the workspace can download the file I am sharing.

Tasks	Time	Assigned to
Create/find a way to upload a file	3 hrs	Kevin/Saksham
Create/find a way to store the file in the workspace	4 hrs	Kevin/Saksham
Create/find a way to store the file in the backend	4 hrs	Kevin/Saksham
Create/find a way for each user to be able to view the file	6 hrs	Kevin/Saksham
Create/find a way for each user to be able to download files.	6 hrs	Kevin/Saksham
Test to see if the files shared can be downloaded	2 hrs	Kevin/Saksham

### Completed:

There is a file sharing app that you can create. Once opened, you can either browse your local files or drag a file in to the window. The file is then stored in the back end for future use. When one user uploads a file, all of the other users in the workspace can see the file download it. Once the workspace is deleted, the files are deleted from the backend as well.

## User Story 10

As a user, I would like to be able to share any type of file in the workspace.

Tasks	Time	Assigned to
Make sure that we are able to share multiple file types	3 hrs	Kevin/Shreyas
Make sure the user can share multiple files	3 hrs	Kevin/Shreyas
Make sure that each file can be seen by each person	6 hrs	Kevin/Shreyas
Make sure that each user is able to download the file	6 hrs	Kevin/Shreyas
Make sure that the user is limited by file size	2 hrs	Kevin
Test to see that the functionality works.	2 hrs	Kevin

### Completed:

By using the file sharing app you can accomplish these tasks. Any kind of files are able to be uploaded and stored. When uploading a file, you can select multiple files and upload them all at the same time. After uploading multiple files they all become available for any of the other users on the workspace to download. The max file upload size is capped at 10 mb.

## User Story 11

As a user, I would like to be able to view what apps are minimized in the workspace in a sidebar so I can reopen them.

Tasks	Time	Assigned to
Create a sidebar for holding the minimized app buttons	2 hrs	Shreyas
Route the position of the minimized app button to the sidebar	2 hrs	Shreyas
Create a scrolling mechanism to allow for access to other minimized apps if there are multiple minimized apps.	2 hrs	Shreyas
Clicking on the minimized app button should make the app reappear, and the minimized app button disappear from the sidebar	2 hrs	Shreyas
Testing to see if the functionality works	2 hrs	Shreyas

### Completed:

The sidebar is where the app creation buttons are stored as well as all the apps you have existing in the tab. When you click the minimize button of an app, the name shows up on the sidebar, where you can either click the close button to close it or click the name of the app to re-open it. If there are too many apps in the sidebar to show on the page, the sidebar becomes scrollable and allows you to scroll to your desired app.

## User Story 12

As a new user, I would like to have a tutorial explaining all the features when using the app for the first time.

Tasks	Time	Assigned to
Create a new page that explains various components of Synchronous	1 Hour	Saksham
Explain what Synchronous is and the motive behind it	1 Hour	Saksham
Explain how to create a workspace	.5 Hour	Saksham
Explain how to open a workspace	.5 Hour	Saksham
Explain how to interact with the workspace (nickname, invites, bugs, etc.)	3 Hours	Saksham
Explain creating apps (Creating new, resizing, etc.)	1 Hour	Saksham
Explain how the different apps work (text, whiteboard, etc.)	2 Hours	Saksham
Manually inspect tutorial page for any bugs or visual errors	1 Hour	Saksham

### Completed:

We created a tutorial with step by step instructions outlining the entire workspace creation, opening and operating process. It includes explanations of each step with pictures and gifs showcasing the app in action, in a clear, concise and legible format. Instructions for all aspects of using Synchronous are separated into sections.

## 2 What did not go well?

The assignment of tasks was confusing, and sometimes led to delays in production. Although time management was better for this sprint than the last, we still faced some issues in the week leading up to the sprint review. Sometimes new technologies were added without appropriate communications causing the program not to function properly, until they install the correct functions. This caused delays and was an unnecessary waste of time. There were also some communication issues with task handling, as two members completed the same task by mistake.

## 3 How should you improve?

We should have better assignment of the tasks for user stories. Also, we should improve our deadlines to have better organization, and be able to merge tasks more efficiently. Finally, we also should improve communication for downloading required packages/technologies as well as communicating what tasks have been picked up by which person. Overall, this sprint went well so just need to make sure to finish sprint 3 and the project strong.