

# CS307 Sprint 1 Retrospective

## What went well?

### User story #1

As a user, I would like to be able to post definitions, captions, etc. so that I may compete with other users on the site/program.

#	Description	Time	Owner
1	Set Up a front end page that displays a word and a field to post a definition.	4	Alex
2	Establish a connection between a client and the server	3	Michael
3	Have functioning POST request to send definition to database	3	Syed
4	Properly encode post data for storage in the database	4	Ayush
5	Have database store the word in the correct table	3	Ayush
6	Have functioning GET request to display definitions on the page	3	Michael

**Summary:** The front end was completed early on, but was later upgraded to work fully with the server. The server was worked on simultaneously, and communication and testing with the client began early as well. The database module came in last, completing the communication among the whole system. All functions to communicate with the database and client were implemented in the server and the information handoff was handled well.

### User story #2

As a user, I would like to have a search engine so that I can easily find entries on the site that I am interested in.

#	Description	Time	Owner
1	Create search box in the GUI to facilitate the search and allow users to type in a word to search for	2	Alex
2	Send request to the database to search through the table for the specified word	5	Ayush

3	If word is found, send the client to the link of that word page	3	Syed
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**Summary:** The search bar works even better than intended, and looks good as well. We were able to make the search bar search for users and words depending on what the user chooses using a radio button.

### User story #3

As a user, I would like a random word option so that I may explore different words on the website so that I can discover words I may not have thought of before.

#	Description	Time	Owner
1	Display a button that will initiate the random word function	1	Alex
2	Create a random word function in the server that sends randomized index to the database	2	Syed
3	Have functioning GET request to get the correct random word page or error if no such page was found	4	Michael
4	Redirect the user to the word page	2	Alex

**Summary:** The random word button works smoothly and is displaying random words to the user. With this, the user can explore previously unknown words on the website and observe the culture of the website created by the users.

### User story #5

As a developer, I would like a “Developer’s Update” page where I can share our latest changes to the website so that the users can be informed about all of the on-goings with the further development of the site.

#	Description	Time	Owner
1	Create a developers update page	3	Alex
2	Create fields that allow users to sign up for the mailing list	2	Alex
3	Store mailing list in the database	3	Ayush
4	Manual test that the email system is successfully sending emails to the stored addresses	2	Michael

**Summary:** The developers update page works as intended. People are able to sign up for the mailing list and the database updates accordingly. Emails were manually tested and are correctly working.

### User story #6

As a developer, I would like a database that contains all user profiles, words, images, etc. so that I can easily access this data for future development.

#	Description	Time	Owner
1	Create a storage space with MySQL	4	Ayush
2	Create tables for different fields (users, words, etc)	4	Ayush
3	Initialize the database link with the server	4	Michael

**Summary:** Updating, accessing, and storing things in the database works perfectly with the server. We hosted a MySQL database locally and established a connection to our Node.js server by using Node's MySQL package.

### User story #7

As a user I would like to be able to see the latest words so that I can add my contributions as soon as words are added.

#	Description	Time	Owner
1	Add new word entries to the database	2	Ayush
2	GET request to display recently added words on a page	4	Michael
3	Ability to click on the words and be taken to their page	3	Syed
4	Create a latest words page	3	Alex

**Summary:** The latest words page exists and contains clickable words that will lead the user to the desired word page. It pulls the newest words from the database using GET requests and displays them as intended.

### User story #8

As a user, I would like a contact page so that I can send bug reports or suggestions to the developers so that the bugs I find get patched.

#	Description	Time	Owner
1	Create functionality to send emails to contact email	4	Michael
2	Display fields for Name, email, and a message to send to our contact email.	2	Alex
3	Setup POST request to send that information to our contact email	5	Michael
4	Inspection and Manual Testing to make sure our contact email is receiving the information	2	Michael

**Summary:** We made an email for our project and directed all the suggestions to it. The input works correctly and the emails were being sent and received.

### User story #9

As a user, I would like to be able to up- and down-vote posts so that I may contribute to the rankings of the posts on the site/program.

#	Description	Time	Owner
1	Create a system in the database to store definitions with said up/down votes in a point variable	3	Ayush
2	Create display and buttons for the user to be able to vote on a definition	3	Alex

**Summary:** The database was able to store point associations with each post, and those values can be modified with buttons in the client, though some of this user story will be found in the following “did not go well” section.

### User story #10

As a user, I would like to also be able to use the search engine to look for specific users so that I can find users whose other content I'd like to see.

#	Description	Time	Owner
1	Expand search bar to be able to search for users	2	Syed
2	Create appropriate GET and POST requests	3	Syed
3	Write logic to search the desired user efficiently	3	Syed

**Summary:** The search bar is able to switch between looking through the post list and the user list successfully, and is able to display user information in the client (fetched from the database) when the user is successfully found.

## What did not go well?

### User story #2

As a user, I would like to have a search engine so that I can easily find entries on the site that I am interested in.

4	Write logic to show an error message when a word is not found	3	Syed
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**Summary:** Currently, our error tracking system is not app friendly. When we throw an error, it stops the application. For the future, we would like to present errors in a way that does not stop execution, for users and for testing.

### User story #4

As a user, I would like to see the name of the contributor next to the submitted definition so that I can find their other content.

#	Description	Time	Owner
1	Have a functioning GET request that receives the user associated with a definition from the database	5	Ayush
2	Design a field on the page to display the contributor's username.	2	Alex

**Summary:** Because we haven't implemented a login system yet, we were not able to display a username along with a post. This system will be implemented in the next sprint, which will go along with the rest of our user experience. Players will have a profile page and will be able to track their points for a more immersive experience.

### User story #6

As a developer, I would like a database that contains all user profiles, words, images, etc. so that I can easily access this data for future development.

4	Unit Testing	5	Syed
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**Summary:** We had a hard time figuring out our testing package and creating functions that the tests could use. As a result, we ended up with less tests than we would have like. For the rest of the sprints, testing will become a high priority for all of our modules. We will also be improving our error responses to aid this.

### User story #9

As a user, I would like to be able to up- and down-vote posts so that I may contribute to the rankings of the posts on the site/program.

3	Write logic to only have registered Users post votes, which will be a posting requirement in sprint 2	3	Syed
4	Create text box and show the user the up/down votes for said definition, allowing user to view the up/down votes for each definition	3	Alex

**Summary:** We ran into an issue that when a vote was pressed and the page refreshed, the change in the database would not appear on the screen until the next time the button was pressed. We will be looking to fix this issue in the next sprint. The definition box worked perfectly though, and all entries were displayed.

### User story #10

As a user, I would like to also be able to use the search engine to look for specific users so that I can find users whose other content I'd like to see.

4	Write logic to handle cases where user doesn't exist	1	Syed
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**Summary:** While we were checking for errors, the way in which we did it would stop the server. It would throw an error, print an error message, and the server would stop. In the future, we want to approach it in a way that keeps the client's connection and the server online. This will also help us if we run a test package, so that it doesn't stop mid-execution.

# How should you improve?

Now that we have legitimate experience after creating the database, server, and web pages, improving them should be a simpler task. Our team needs to apply our new knowledge to our oldest code and work our way up, making sure that all broken or incorrect code is fixed before we start working on new content.

As for our documents, we need to improve our user stories, making sure to be more specific with our goals, that each goal is achievable by a single git commit, and that every user story has either unit or manual testing. Our stories will also be listed in chronological order so grading can be done more efficiently. We want to make it clear what we are delivering with each task created to complete our stories.