RS Chat

⚠️ Epics are large overarching initiatives.
🏃 Sprints are time-bounded pushes to complete a set of tasks.
🔧 Tasks are the actions that make up epics.
🐞 Bugs are tasks to fix things.

Aa Projects	Priority	☰ Type	Status	⊙ Sprint	🗓 Started	🗓 Finished	# Inactivity (h)	☰ Notes
Add Report page for admins and display all the report notifications	Low	Improvement 🚀	Not Started					
Remove the /invite command	Medium	Refactor 🔧	Complete	Sprint 11	@May 1, 2023 13:20	@May 2, 2023 13:40	0	Added the invite button in chat view
Fix bug not sending email on invitation	High	Bug 🐞	Complete	Sprint 11	@May 1, 2023 1:40	@May 1, 2023 1:57	0	Instead of using the email, it was used the username of the invetee. Used Tuple to return the chat and the user from the lambda.
Refactor Utils class to not be named like that	Low	Documentation 🟦 Refactor 🔧	Complete	Sprint 11	@April 30, 2023 3:25	@April 30, 2023 3:58	0	
Video handling with lib	UNSET	Idea 💡	Not Started					https://github.com/kokorin/Jaffree https://github.com/Manevolent/ffmpeg4j
Fix Redux localstorage modification by checking the username of the token in the backend.	Very high	Bug 🐞	Not Started					Also the storage should be changed to other with more security
Fix error in profile view	Medium	Bug 🐞	Revision	Sprint 11				
When inviting someone to a chat, send an email to the user to notify the invitation. The user is added to the chat immediately	Medium	Improvement 🚀	Complete	Sprint 11	@April 11, 2023 2:05	@April 12, 2023 3:30	12	Instead of a command, do a button near chat name and send a POST request. This allows to ease the process of DI and send the email to the user.
New design when sending nsfw media	Medium	Improvement 🚀	Not Started					The user can see the image, but other users cannot
Send the session ip in the login and register response to identify the session in the profile view	Low	Improvement 🚀	Not Started					
Improve session display in frontend (show dates, and the index is the id of the session)	Medium	Improvement 🚀	Complete	Sprint 10	@April 10, 2023 14:52	@April 10, 2023 17:03	0	
Do not store empty commands	Medium	Bug 🐞	Not Started					
When showing command stats in profile, the app crashes (see image)	Critical 🔥	Bug 🐞	Complete	Sprint 10	@April 10, 2023 12:35	@April 10, 2023 14:52	0.7	An object (command stats) is stored inside, and the app does not support that.
Fix app crash when sending a command that is unavailable	Critical 🔥	Bug 🐞	Complete	Sprint 10	@April 10, 2023 3:08	@April 10, 2023 4:34	0	Added NoOp command
Improve command parsing	Medium	Improvement 🚀 Refactor 🔧	Not Started					
Improve blocked users and friends functionality and relationships in db	Low	Refactor 🔧	Not Started					
Chats with limited number of members	To define	Idea 💡 Improvement 🚀	Not Started					
Use Optional<T> in all return types from the repository	High	Refactor 🔧	Complete	Sprint 11	@May 3, 2023 12:39	@May 3, 2023 12:44	0	
Refactor exception handling in controllers with @ControllerAdvice	Medium	Refactor 🔧	In Progress	Sprint 11	@May 7, 2023 2:31			https://reflectoring.io/spring-boot-exception-handling/
Create group by every user (private or public)	Low	Improvement 🚀	Not Started					
Unread messages balloon notification	Medium	Improvement 🚀	Not Started					
Multiple chat tabs	Medium	Improvement 🚀	Not Started					
Webcam integration	To define	Idea 💡 Improvement 🚀	Not Started					https://primefaces.github.io/primefaces/jsdocs/modules/src_PrimeFaces.Webcam.html
Configure the CORS policy when checking connectivity to the bucket	High	Improvement 🚀	Complete	Sprint 10	@April 7, 2023 16:42	@April 7, 2023 22:03	1.5	
Fix pdf not showing	Very high	Bug 🐞	Complete	Sprint 10	@April 7, 2023 15:25	@April 7, 2023 16:42	0	CORS policy has incorrect AllowedOrigins prop
Make a form to get feedback from users	Very high	Research ⚠️	Complete	Sprint 10	@April 6, 2023 16:00	@April 8, 2023 16:00	18	
Check run conditions when uploading several images at once when performing the request to the Python API	Very high	Bug 🐞	Complete	Sprint 10	@April 5, 2023 3:43	@April 5, 2023 4:06	0	When uploading 5 nsfw images, in the DB is stored only 4 (in the user nsfw_count column). https://stackoverflow.com/questions/30346882/do-synchronized-java-methods-queue-calls
If user is blocked, do not allow to enter the app	High	Improvement 🚀	Complete	Sprint 10	@April 5, 2023 4:10	@April 5, 2023 4:20	0	Very easy. Added a single check in the login endpoint and a pretty format
When sending a server message, the type must be a generic one.	High	Refactor 🔧	Complete	Sprint 10	@April 5, 2023 13:00	@April 5, 2023 13:12		Create a constant and update all usages of the createMessage function
Add more CI steps for testing	Medium	CI/CD 🏛 Improvement 🚀 Test ✏️	Complete	Sprint 10	@March 30, 2023 13:56	@March 30, 2023 15:15	0.5	

Projects	Priority	Type	Status	Sprint	Started	Finished	# Inactivity (h)	Notes
Prepare environment to perform frontend tests	High	Configuration ✳ Test ✏	Complete	Sprint 10	@March 30, 2023 1:00	@March 30, 2023 1:10	0	Simple jest execution
Age verification	Low	Improvement ✈	Not Started					
Kick the users out of the session when they upload the last NSFW content	High	Improvement ✈	Complete	Sprint 10	@April 5, 2023 2:03	@April 5, 2023 3:29	0	
Set to users the block date when several NSFW content is uploaded to chats	High	Improvement ✈	Complete	Sprint 10	@March 21, 2023 23:00	@March 21, 2023 23:56	0	
Fix not showing the images when uploading	Very high	Bug 🐞	Complete	Sprint 10	@April 6, 2023 15:57	@April 6, 2023 16:20	0	Resources are uploaded to the wrong folder in S3 (uppercase) and should be stored inside the lowercase ones
When users upload several NSFW images, block them for a period of time	Medium	Improvement ✈ Task 🔧	Reference	Sprint 10			0	Set to users the block date when several NSFW content is uploaded to chats
Migrate nsfw service to Python	Critical 🔥	Bug 🐞 Refactor 🛠	Complete	Sprint 10	@March 12, 2023 13:57	@March 14, 2023 2:49	24	https://pythonspeed.com/articles/activate-virtualenv-dockerfile/ https://stackoverflow.com/questions/30215830/dockerfile-copy-keep-subdirectory-structure Needed to set the Internet Address to 0.0.0.0 to be able to receive external requests
Improve friends functionality to not add symmetric rows to DB	Medium	Improvement ✈ Refactor 🛠	Not Started					To represent friends, with only one relation suffices (or look for other techniques).
Report user form and send a notification to administrators of a new report.	Medium	Improvement ✈	Not Started					
Dockerize rs-chat-utils services	Very high	Configuration ✳ Improvement ✈	Complete	Sprint 10	@March 11, 2023 17:45	@March 14, 2023 3:14	36	https://github.com/tensorflow/tfjs/issues/1425#issuecomment-596197404 I have to build tensorflow from source or downgrade to 1.5. After compiling from source (6.7 h) found version https://github.com/yaroslavvb/tensorflow-community-wheels/issues/217
Send requests from the FileController to the utility NSFW service	High	Improvement ✈ Security 🔒	Complete	Sprint 09	@March 11, 2023 2:35	@March 11, 2023 5:34	0	Store the file before the request and send the path to the NSFW service, remove `multer` lib from the service, since it is not used. For making the requests `RestTemplate` is useful.
When the chat passes 1 month, delete the history	Medium	Idea 💡 Improvement ✈	Not Started					
Integrate the Keras NSFW model to Java (new service or integrated in the app)	Low	Idea 💡 Improvement ✈	Cancelled			@March 11, 2023 2:30		https://towardsdatascience.com/deploying-keras-deep-learning-models-with-java-62d80464f34a
Single IntelliJ project with all modules inside	High	Configuration ✳	Complete	Sprint 09	@February 25, 2023 0:29	@February 25, 2023 0:42	0	Import as modules and that's it
For image detection use nsfwjs backend lib to use the IA model	High	Improvement ✈	Complete	Sprint 09	@February 25, 2023 1:40	@February 25, 2023 23:26	12	https://www.npmjs.com/package/nsfwjs#node-js-app https://github.com/tensorflow/tfjs/issues/7273#issuecomment-1384413639
Use magic-8-ball api for that chat command	Medium	Improvement ✈ Task 🔧	Complete	Sprint 09	@February 25, 2023 1:40	@February 25, 2023 19:48	10	https://www.eightballapi.com/docs
Add a 'Copy code' in reset password email template	Medium	Task 🔧	Complete	Sprint 09	@February 23, 2023 2:54	@February 23, 2023 3:20	0	
Fix email sender	Critical 🔥	Bug 🐞	Complete	Sprint 09	@February 23, 2023 2:00	@February 23, 2023 2:54	0	Use the package `spring-boot-starter-mail` instead of `javax.mail` https://mkyong.com/spring-boot/spring-boot-how-to-send-email-via-smtp/
Update policies messages	High	Bug 🐞	Complete	Sprint 09	@February 22, 2023 0:23	@February 22, 2023 1:38	0	`message()` call overrides the default message assigned to the constraint
Make the MailSender a component	Medium	Configuration ✳ Refactor 🛠	Cancelled	Sprint 09	@February 21, 2023 23:30	@February 21, 2023 23:50	0	
Integration tests	Very high	Improvement ✈ Test ✏	In Progress	Sprint 09	@February 20, 2023 17:05			https://reflectoring.io/spring-boot-test/ Disable some beans to avoid conflicts in tests
Refactor of HttpResponse, back to previous implementation.	Critical 🔥	Bug 🐞 Improvement ✈ Refactor 🛠 Test ✏	Complete	Sprint 09	@February 18, 2023 17:16	@February 18, 2023 18:51	0.5	
New implementation for HttpServletResponse to be able to test the controllers	Medium	Refactor 🛠 Test ✏	Complete	Sprint 09	@February 16, 2023 1:38	@February 17, 2023 20:13	18	
Controller tests with MockMvc	Medium	Improvement ✈ Test ✏	In Progress	Sprint 09	@February 15, 2023 0:55		13	See description for more details
Use WebTau for E2E tests (for test the API)	High	Improvement ✈ Test ✏	Cancelled			@February 21, 2023 23:30		https://github.com/testingisdocumenting/webtau
Remove from shouldNotSomething tests the given save to the repository	High	Refactor 🛠 Test ✏	Complete	Sprint 09	@February 14, 2023 1:31	@February 14, 2023 2:08	0	Also improved existing tests and added more
Script to update secrets in GitHub for tests	High	Improvement ✈ Security 🔒 Test ✏	Complete	Sprint 09	@February 14, 2023 14:08	@February 14, 2023 20:04	4	
Fix problems when sending a media message after uploading it	Very high	Bug 🐞	Complete	Sprint 08	@February 10, 2023 2:00	@February 10, 2023 2:30	0	
DTO for upload strategies	Low	Refactor 🛠	Complete	Sprint 08	@February 10, 2023 2:48	@February 10, 2023 3:01	0	
Count the commands used and save it in the user's column in db	Low	Improvement ✈	Complete	Sprint 08	@February 9, 2023 21:54	@February 9, 2023 22:14	0	
Move command instantiation to its class as static members	Medium	Improvement ✈ Refactor 🛠	Complete	Sprint 08	@February 9, 2023 21:18	@February 9, 2023 21:53	0	

Aa Projects	Priority	≡ Type	⋮ Status	⊙ Sprint	☐ Started	☐ Finished	# Inactivity (h)	≡ Notes
Other users should not receive the command message if it is for own use. Mentions are sent to all users	Medium	Improvement ✈	Complete	Sprint 08	@February 9, 2023 11:55	@February 9, 2023 14:31	0.5	
New DTO for handling commands	Medium	Refactor 🛠	Complete	Sprint 08	@February 9, 2023 2:00	@February 9, 2023 2:15	0	
Revise the JSON.parse method calls in frontend to check if they must be removed since the JSON is sent correctly now	High	Task 🔧	Complete	Sprint 08	@February 8, 2023 12:32	@February 8, 2023 17:21	1	
Fix serialization problems of JsonObject when sending responses	Very high	Improvement ✈ Refactor 🛠	Complete	Sprint 08	@February 8, 2023 1:05	@February 8, 2023 2:50	0.5	New Serializers for ObjectMapper
Badge view in profile or new page	Medium	Improvement ✈	Complete	Sprint 08	@February 7, 2023 18:30	@February 8, 2023 20:53	0	Also added stats
Create the design of the badges	Medium	Task 🔧	Complete	Sprint 08	@February 7, 2023 11:50	@February 7, 2023 16:48	2	https://badge.design/ https://pictogrammers.com/library/mdi/ https://vectorink.io/app/
When reconnecting to a chat, the history is not retrieved	Very high	Bug 🐞	Complete	Sprint 08	@February 8, 2023 19:30	@February 8, 2023 19:48	0	Detected in websocket readyState
Big refactor to inject some objects to message strategies	High	Improvement ✈ Refactor 🛠	Complete	Sprint 08	@February 1, 2023 19:38	@February 1, 2023 21:06	0	
Make all strategies a @Component, to be able to inject attributes	Low	Improvement ✈ Refactor 🛠	Cancelled					See Big refactor to inject some objects to message strategies. Strategies do not have the annotation but all the needed arguments are passed to the constructor of the strategy from the Mappings class (this is a @Component class)
Bugfix: uri is not a property in messages, it was changed to path	Critical 🔥	Bug 🐞	Complete	Sprint 08	@January 31, 2023 0:20	@January 31, 2023 0:25	0	
Mappings for Upload strategies	High	Improvement ✈	Complete	Sprint 08	@January 30, 2023 20:34	@January 30, 2023 21:05	0	Instead of using Map, an ArrayList of new value object is used
Bugfix: history file is deleted from disk after 10 minutes (scheduled task) but should not be deleted unless there is no users in the chat	Very high	Bug 🐞	Complete	Sprint 08	@January 30, 2023 23:45	@January 30, 2023 23:53	0	
Replace single MIME type for files with the full MIME type name	Medium	Refactor 🛠	Cancelled			@January 31, 2023 23:30	-1	This change would affect the storage of the files in S3 bucket
Image recognition with deeplearning4j library	Medium	Improvement ✈	Cancelled			@February 25, 2023 0:13		https://medium.com/datactw/image-classification-neural-network-tutorial-getting-started-with-deep-learning-for-java-dl4j-b36372aad656 https://www.baeldung.com/java-cnn-deeplearning4j
Delegate functionality to Chat class instead of ChatManagement	High	Improvement ✈ Refactor 🛠	Complete	Sprint 08	@January 30, 2023 2:10	@January 30, 2023 4:24	0	Also improved code readability of both classes
Possibility to add a proxy between the client and the server	UNSET	Idea 💡 Improvement ✈ Security 🔒	Not Started					
Add JWTService class and change library to jjwt	Low	Refactor 🛠	Complete	Sprint 08	@January 26, 2023 22:06	@January 27, 2023 1:58	2.4	
Go down button with small number icon to specify the received messages	Medium	Improvement ✈	Not Started					
🎉 10k lines of code 🎊	Critical 🔥		Complete			@January 26, 2023 3:35		
Close all sessions does not work well (after doing it, I continued to the chat page in other tab)	High	Bug 🐞	Complete	Sprint 08	@January 31, 2023 13:20	@January 31, 2023 14:10	0	
Administration button to close/open chats and send to home the connected users	Low	Improvement ✈	Cancelled			@January 31, 2023 23:06		
File caching to not read files from disk all times	Very high	Improvement ✈	Complete	Sprint 08	@January 25, 2023 15:54	@January 26, 2023 0:32	3.5	
Spring migration from 2.7.0 to 3.0.2	High	Improvement ✈ Refactor 🛠 Security 🔒 Task 🔧	Complete	Sprint 08	@January 26, 2023 16:45	@January 26, 2023 22:00	1.6	
Huge refactor to use JPA Buddy when generating entities and relationships	Critical 🔥	Refactor 🛠	Complete	Sprint 08	@January 22, 2023 17:34	@January 24, 2023 21:46	24	https://www.youtube.com/watch?v=DC6FrC4olhE
Add teachers to degree by administrator	Very high	Improvement ✈ Task 🔧	Complete	Sprint 08	@January 22, 2023 16:19	@January 22, 2023 17:15	0	Teachers are added implicitly to the degrees when they are added to a subject. Modify admin dashboard to show the degree of each subject
Special rooms for games	Very low	Idea 💡 Improvement ✈	Not Started					TicTacToe, Bingo…
Refactor of if statements in Policies class to use Yavi validation library	Very high	Improvement ✈ Refactor 🛠	Complete	Sprint 08	@January 20, 2023 12:35	@January 20, 2023 23:42	3	
Add Quartz lib to schedule all the tasks.	Medium	Improvement ✈	Cancelled	Sprint 08	@January 15, 2023 13:50	@January 15, 2023 14:00	0	
Improve the security of my home Wi-Fi and network	High	Research ⚠ Security 🔒	Not Started					
Implement rate limit to avoid spamming a lot of messages in short time	High	Improvement ✈	Complete	Sprint 08	@February 1, 2023 0:40	@February 1, 2023 15:24	8	Messages that are sent after the notification of TOO_FAST_MESSAGE are deleted from the user chat view
Add relations to entities to reduce queries	Low	Refactor 🛠	Reference					See Huge refactor to use JPA Buddy when generating entities and relationships

Projects	Priority	Type	Status	Sprint	Started	Finished	# Inactivity (h)	Notes
Fix /dice command. Page crashes	Very high	Bug 🐞	Complete	Sprint 07	@December 21, 2022 0:20	@December 21, 2022 0:50	0	
Add teacher to subject by administrator	High	Improvement 🚀 Task 🔧	Complete	Sprint 07	@December 18, 2022 14:52	@December 21, 2022 17:44	28	2 columns in UI: Left with teacher names and id, Right with subject names. With a search bar for each column
Teacher service to get data	High	Task 🔧	Complete	Sprint 07	@December 18, 2022 2:08	@December 18, 2022 4:00	0	
When sending a non-text message, the Handler crashes because the content could not be read as normal text.	Very high	Bug 🐞	Complete	Sprint 07	@December 17, 2022 20:35	@December 17, 2022 22:57	1	Check the type before the content
Know how to add custom stats to send to Prometheus	Medium	Configuration ⚙️ Improvement 🚀	Complete	Sprint 07	@December 17, 2022 2:49	@December 17, 2022 3:20	0	https://fabianlee.org/2022/06/29/java-adding-custom-metrics-to-spring-boot-micrometer-prometheus-endpoint/
Mark html containing the mentioned user	Low	Improvement 🚀	Complete	Sprint 07	@December 16, 2022 20:46	@December 17, 2022 0:13	1	
Send mention message to the mentioned user to notify in frontend	Medium	Improvement 🚀	Complete	Sprint 07	@December 16, 2022 1:40	@December 16, 2022 20:07	12	
Add support for multi-parameter commands and multiple commands in one message	High	Bug 🐞 Improvement 🚀	Complete	Sprint 07	@December 11, 2022 0:00	@December 13, 2022 0:36	24	Implement a parser in backend to correctly send messages. It must support multiple parameters for a command and several commands in one message
Add new commands for fun (roll a dice, 8 ball, ...).	Low	Improvement 🚀	Complete	Sprint 07	@December 10, 2022 3:40	@December 16, 2022 3:00	-1	
Make a table to display command help in frontend	Low	Improvement 🚀	Not Started					
Refactor commands in backend	Medium	Refactor 🛠️	Complete	Sprint 06	@December 10, 2022 2:00	@December 10, 2022 3:00	0	New record with several fields and removed from the CommandStrategy interface
Send logs to Grafana with Loki	High	Improvement 🚀	Complete	Sprint 06	@December 5, 2022 20:00	@December 7, 2022 1:00	16	Improve by making a custom archive to send the logs to and read from that
Teacher routes in frontend	Medium	Improvement 🚀	In Progress	Sprint 06	@November 20, 2022 12:37			
Fix Force Browsing the images in S3 bucket	Very high	Bug 🐞 Improvement 🚀 Security 🔒	Not Started					See Change IDOR (Insecure Direct Object Reference) when showing the chat URL
When user has friends and they are connected to the same chat, the first active users shown must be that friends	Low	Improvement 🚀	Not Started					
View profile functionality. Username is used in URL	Medium	Improvement 🚀	In Progress	Sprint 06	@November 20, 2022 2:06			
Improve going back and forward with mouse buttons	Medium	Improvement 🚀	Not Started					Store the location where the user joined the page and if there are no more entries to go back, go to that location.
Do not refresh page when changing chat. Clear history, info and users	High	Improvement 🚀 Task 🔧	Cancelled			@November 20, 2022 0:20		
Change IDOR (Insecure Direct Object Reference) when showing the chat URL	High	Bug 🐞 Improvement 🚀 Security 🔒	Complete	Sprint 06	@November 18, 2022 20:54	@November 20, 2022 0:22	8	Check this video for explanation: https://www.youtube.com/watch?v=rlogMGcPMkI IDOR - fix with new reducer in frontend (history of all pages visited)
Implement individual chats	Very high	Improvement 🚀	Complete	Sprint 06	@November 17, 2022 16:35	@November 18, 2022 15:41	3	Now do this → Do not refresh page when changing chat. Clear history, info and users
Backend logging division by level	Very high	Configuration ⚙️ Improvement 🚀	Complete	Sprint 06	@November 16, 2022 23:30	@November 17, 2022 0:05	0	
Check response bodies in frontend	Very high	Refactor 🛠️ Task 🔧	Complete	Sprint 06	@November 16, 2022 20:00	@November 16, 2022 20:06	0	
Refactor all the controllers. When an exception is thrown in other method, catch it to send a response message to show to the user	Very high	Refactor 🛠️ Task 🔧	Complete	Sprint 06	@November 15, 2022 23:28	@November 16, 2022 19:24	14	Change the error message retrieval in frontend. Can be rolled back to not using this, since the exceptions are sent if thrown in other method, but the message retrieval changes a bit.
Web Socket does not connect to backend in production	Critical 🔥	Bug 🐞 Task 🔧	Complete	Sprint 06	@November 11, 2022 18:30	@November 16, 2022 1:28	-1	Brave Browser was blocking the connection 😩
Application statistics. Maybe other application using SQS locally?	Medium	Improvement 🚀	Reference					Ref: Chat statistics - Per user, number of messages, words written…
Implement commands and mentions	High	Improvement 🚀	In Progress	Sprint 05	@November 6, 2022 2:34			
Support mentions with '@' character	Medium	Improvement 🚀	Complete	Sprint 05	@November 5, 2022 3:36	@November 5, 2022 15:33	9	Use the same tokenizer for commands but for @ symbol
Revise all todo tasks	Very high	Research 📖 Task 🔧	Complete	Sprint 05	@November 4, 2022 20:27	@November 5, 2022 0:58	1.5	First frontend, then backend
Extract connection display to new component	Medium	Refactor 🛠️	Complete	Sprint 05	@November 4, 2022 13:39	@November 4, 2022 14:00	0	
New component colors for the information messages	High	Improvement 🚀	Complete	Sprint 05	@November 4, 2022 14:21	@November 4, 2022 14:23	0	
Reconnect button in ToolBar	Medium	Improvement 🚀	Not Started					Might not be needed
An 'ActiveUsers' message is sent after the client closes a chat	High	Bug 🐞	Ignore					It is a message to get all the active users when one leaves the chat. No problem

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State information about the connection of the socket to the server (Connected or disconnected) in Toolbar	Medium	Improvement 🚀	Complete	Sprint 05	@November 2, 2022 17:03	@November 2, 2022 17:11	0	
Global variable to store the WebSocket client when the user is logged in	High	Improvement 🚀	Complete	Sprint 05	@November 2, 2022 16:41	@November 2, 2022 17:00	0	Kept global state with a React context: https://stackoverflow.com/questions/69675357/react-what-is-the-proper-way-to-do-global-state
Refactor connection to web socket server by adding one previous step to joining the chat	High	Improvement 🚀 Refactor 🔧 Task 🔨	Complete	Sprint 05	@October 30, 2022 0:39	@October 30, 2022 1:18	0	Now messages can be sent without being in a chat
Add a new page to send information message to all users	High	Improvement 🚀	Complete	Sprint 05	@October 30, 2022 22:30	@October 31, 2022 2:34	0	In frontend we make a new page with a chat (only for administrators) and every message that is sent, is globally notified (new type and task). Also, I can define buttons to have predefined messages to send.
Remove refresh token from sessions, because it is not used	High	Refactor 🔧	Complete	Sprint 05	@October 28, 2022 1:57	@October 28, 2022 2:40	0	Also from frontend in Redux
Administration button to schedule the restart of the server	Very high	Improvement 🚀	Complete	Sprint 05	@October 29, 2022 0:40	@October 29, 2022 16:06	8	
Migrate useEffect with API calls with useQuery	Medium	Improvement 🚀	Not Started					
Leave chat (user action)	Medium	Improvement 🚀	Complete	Sprint 05	@October 26, 2022 18:53	@October 26, 2022 19:10	0	
Add support for text and pdf files messages	High	Improvement 🚀	Complete	Sprint 05	@October 26, 2022 0:38	@October 26, 2022 1:30	0	Remains giving style to the message boxes
PDF visualizer	Medium	Improvement 🚀	Complete	Sprint 05	@October 26, 2022 15:30	@October 26, 2022 17:38	0.3	
Check why the sessions are removed every time the scheduled task is executed	Medium	Bug 🐞	Complete	Sprint 05	@October 25, 2022 20:25	@October 25, 2022 20:32	0	Token did not have the prefix when verifying it. Changed implementation of the method to support having or not the "Bearer " prefix
Improve observability with Grafana	Medium	Configuration ⚙️ Improvement 🚀	Complete	Sprint 06	@November 27, 2022 0:14	@December 7, 2022 17:15	-1	https://grafana.com/blog/2022/04/26/set-up-and-observe-a-spring-boot-application-with-grafana-cloud-prometheus-and-opentelemetry/ Also add Loki for managing the logs
Improve performance when showing the emojis	Very high	Improvement 🚀	In Progress	Sprint 05	@October 26, 2022 19:38			
Fix removal of chats with incorrect id. Modify tables to have one column with the id of the table the entries come from.	High	Bug 🐞	Complete	Sprint 05	@October 22, 2022 12:15	@October 22, 2022 23:45	3	
Add end date to sessions, to not verify on each token every 15 minutes to check if it has expired.	Medium	Improvement 🚀 Refactor 🔧	Complete	Sprint 05	@October 28, 2022 1:35	@October 28, 2022 1:56	0	
Send information message when the deployment is going to be done	High	Configuration ⚙️ Improvement 🚀	Not Started					
Add to the name of the subjects and groups a random String at the end to support repeated names, but not show it when retrieving information	Medium	Task 🔨	Not Started					
Improve Administration pages with edit and list views (with edit and remove button on every item of the list)	Medium	Improvement 🚀	Complete	Sprint 05	@October 21, 2022 19:30	@October 22, 2022 17:23	10	Deleting chats, remove history
Block users for 10 minutes when they introduce a wrong password	Medium	Improvement 🚀 Task 🔨	Not Started					See description for more details
Block users	Medium	Improvement 🚀	Complete	Sprint 10	@March 11, 2023 16:00	@April 5, 2023 13:00	-1	
Add friends	Medium	Improvement 🚀	Complete	Sprint 10	@March 11, 2023 14:00	@March 12, 2023 3:18	8	Disable users from sending messages themselves, if users see their own profile, go to the profile page (both new functionality)
Poll system integrated in the chat	Very low	Idea 💡 Improvement 🚀	Not Started					
Improve log configuration file to make files with RollingFilePolicy	Medium	Improvement 🚀	Complete	Sprint 05	@October 19, 2022 17:20	@October 20, 2022 18:10	0	
Create email server at home	High	Configuration ⚙️ Improvement 🚀	Not Started					
Create self-signed SSL cert to enable access from Vercel	Very high	Bug 🐞 Configuration ⚙️	Complete	Sprint 05	@October 16, 2022 18:32	@October 17, 2022 21:12	8	No self-signed SSL used. We use `certbot` to get the certificates automatically with reliable CA.
Configure home server	Critical 🔥	Configuration ⚙️ Improvement 🚀	Complete	Sprint 05	@October 14, 2022 16:00	@October 16, 2022 22:00	16	
Make WebSockets work in the home server	Critical 🔥	Configuration ⚙️	Complete	Sprint 05	@October 15, 2022 23:28	@October 15, 2022 23:32	0	Only needed to change WebSocket connection URL
Make dockerfiles to have a dev and prod containers of the backend	Very high	Configuration ⚙️ Improvement 🚀	Cancelled					Unnecessary. Background processes can be used
Backend works correctly in home server	Critical 🔥	Configuration ⚙️	Complete	Sprint 05	@October 15, 2022 20:00	@October 15, 2022 23:15	0.7	
Improve Active users tab with list switching (active / all)	Medium	Improvement 🚀	Complete	Sprint 05	@October 13, 2022 15:50	@October 13, 2022 17:34	0.5	
Improve chat grid at home page	Very high	Bug 🐞	Complete	Sprint 05	@October 13, 2022 0:02	@October 13, 2022 0:22	0	Removed margin from DropDown and must be set whenever it is used to the inner components

Aa Projects	Priority	≡ Type	⊙ Status	⊙ Sprint	📅 Started	📅 Finished	# Inactivity (h)	≡ Notes
Infinite requests when going to add new group	High	Bug 🐞	Complete	Sprint 05	@October 12, 2022 23:24	@October 12, 2022 23:26	0	A dependency list in useEffect was not present
Register email address in Sendgrid to prevent automatic emails to be received in spam folder	Very high	Bug 🐞	TempCancel	Sprint 05	@October 12, 2022 2:35			Emails are received in spam folder 😳. Moved to Gmail (using tricks 😂 by creating account from mobile without adding it) and new implementation. The links are modified and email is sent to spam.
Published Instagram story to get feedback	Medium	Research ⛰	Complete	Sprint 05	@October 12, 2022 0:36	@October 13, 2022 0:36	0	
Fix general crashes of the app	Critical 🔥	Bug 🐞	TempCancel					
Active users table have repeated usernames (users from mobile)	High	Bug 🐞	TempCancel					
Sound must be played on every message (fix hook to execute completely and not pause the sound)	Low	Bug 🐞	TempCancel					
When mobiles quit browser when they are inside the chat, the WS crashes	Very high	Bug 🐞	Not Started					Server must be restarted to enable users to use the chat again
When a user wants to add another to a group, show all the available groups to that person to select one, to copy the invitation code with instructions or send an email	Very low	Idea 💡 Improvement 🚀	Not Started					
Fit content to all devices (Phone, tablet, pc)	Critical 🔥	Improvement 🚀 Task 🔧	Complete	Sprint 05	@October 11, 2022 23:07	@October 12, 2022 0:29	0	
Implementación de algo de funcionalidad más especial. Papers	Very low	Idea 💡	Not Started					
Rank system, get a chat badge (or different colors) when user has written a lot of messages	Very low	Idea 💡 Improvement 🚀	Complete	Sprint 08	@February 6, 2023 0:47	@February 7, 2023 3:52	10	This implies changes to the database, temporal changes made with red (in the drawings)
Meeting with David Nkoto from Platform.sh	Critical 🔥	Task 🔧	Complete	Sprint 04	@October 4, 2022 11:00	@October 4, 2022 11:20	0	No contract agreed
Refactor message strategy to have only one implementation of handle method (Audio/Image/Text/Video classes)	Medium	Refactor 🛠	Complete	Sprint 04	@September 30, 2022 19:48	@September 30, 2022 20:00	0	
FIX: max width in image dialog is not correct. See the image sent by amigueldiez	Medium	Bug 🐞	Not Started					
Improve services to throw exceptions if the entity is not found or an error occurs (and not make it in the controller) and other functionality that could be moved from controllers	Medium	Refactor 🛠 Test 🧪	May change	Sprint 04	@September 28, 2022 16:20	@October 7, 2022 0:19	-1	Needed refactor of *Service* and *Controller* classes
Notification when a message is received	Low	Improvement 🚀	Complete	Sprint 04	@October 8, 2022 1:36	@October 8, 2022 2:00	0	Source of the notification sound: https://mobcup.net/ringtone/mobile-ah-song-jcpfodv9
Add chat tabs to have several opened at the same time	Low	Improvement 🚀	Not Started					
Add response messages by pressing a button or making double click	Medium	Improvement 🚀	Not Started					
FIX: when a user receives a message and the image is opened, the dialog is closed for some reason	Medium	Bug 🐞	Not Started					
Add some unit and integration tests	High	Task 🔧 Test 🧪	In Progress	Sprint 04	@September 27, 2022 11:30			
Fix problems with tests	Very high	Bug 🐞 Test 🧪	Complete	Sprint 04	@September 26, 2022 21:45	@September 26, 2022 22:36	0.2	This solves problems. This solves problems running tests with Maven
Check the indexes in the LaTeX document to correctly generate the numbers	High	Documentation 🟦	Cancelled					
Apply observer pattern when users join a chat	Medium	Improvement 🚀	Not Started					Watch video
Document the pattern used by the ChatMap class	High	Documentation 🟦	Complete	Sprint 04	@October 1, 2022 13:45	@October 4, 2022 12:16	-1	
Instead of '' for showing emojis, add a button at the beginning of the TextBox	High	Refactor 🛠	Complete	Sprint 04	@September 22, 2022 15:00	@October 6, 2022 20:17	-1	Paused the implementation due to creation of the document for the final delivery
Add support for commands with '/' character	Low	Improvement 🚀	Complete	Sprint 05	@November 5, 2022 2:01	@November 5, 2022 15:33	9	Use a Tokenizer (idea)
Add the clock (bean) to Instant.now() calls	Medium	Task 🔧	Complete	Sprint 04	@September 16, 2022 13:26	@September 16, 2022 13:36	0	

Projects	Priority	Type	Status	Sprint	Started	Finished	# Inactivity (h)	Notes
Get all the users that belong to a chat and put a small green icon to those connected (show first), those unconnected with a red icon and last	Very low	Idea 💡 Improvement 🚀 Task 🔧	Not Started					
Reduce emojis file to only needed fields (name, emoji, unicode, category, sub-category)	Medium	Improvement 🚀	Complete	Sprint 04	@September 15, 2022 12:36	@September 15, 2022 13:46	0	Make a table for emojis
Refactor the messages sent over WS to remove encoding field (we only use UTF-8), and simplify to UTF8	High	Refactor 🔧	Complete	Sprint 04	@September 15, 2022 12:21	@September 15, 2022 12:33	0	
Add support for adding emojis without pasting them (some keyword like ":")	Low	Improvement 🚀	Complete	Sprint 04	@September 16, 2022 14:03	@September 19, 2022 21:04	-1	Api: https://github.com/abourtnik/emojis-world Or have the list in memory or read from the file or have a table in db. Decision: DB. When the users enters character ':' some emojis are suggested. The emoji is between ':' characters
Fix problems with audio files that move one message down	Critical 🔥	Bug 🐞	Complete	Sprint 04	@September 14, 2022 16:47	@September 14, 2022 17:24	0	Only fails when the app is executed locally
Save the files uploaded to the database	High	Task 🔧	Complete	Sprint 04	@September 14, 2022 13:50	@September 14, 2022 14:52	0	
Limit the size of the files uploaded	High	Improvement 🚀	Complete	Sprint 04	@September 14, 2022 14:52	@September 14, 2022 14:57	0	
Improve administration view to have several big buttons to select the next window to visualize (not having all data in the same page)	High	Improvement 🚀 Refactor 🔧	Complete	Sprint 04	@September 13, 2022 12:15	@September 13, 2022 13:42	0	Also added Statistics page
Solve problem of not sending USER_LEFT (and USER_JOINED) messages to the server	Critical 🔥	Bug 🐞	Complete	Sprint 04	@September 12, 2022 17:15	@September 12, 2022 20:00	0.1	The client was disabled before sending the USER_LEFT message. USER_JOINED are sent after checking that the user can connect to the chat, in the chat page
Fix exception when a user exits a chat. User is not created and added to chat	Critical 🔥	Bug 🐞	Complete	Sprint 04	@September 12, 2022 8:35	@September 12, 2022 8:54	0	The connection with the method does not work as expected. The connection is made in the onopen of the WebSocket
Remove checks on register. Only show error when server sends the response	High	Refactor 🔧 Task 🔧	Cancelled					
Change all TextField components to be size='small'	Low	Refactor 🔧	Complete	Sprint 03	@September 10, 2022 20:49	@September 11, 2022 20:55	0	
Fix 404 error when accessing app in Vercel from external page	High	Bug 🐞 Documentation 🟦	Complete	Sprint 03	@September 9, 2022 14:00	@September 9, 2022 14:30	0	https://t3.gg/blog/post/vite-vercel
GET request to a URL with an invitation code as a parameter. Then, the user can join the chat if user is not joined and redirected to it in both cases (joined or not)	Very low	Idea 💡 Task 🔧	TempCancel					
Add email templates for register and password change	High	Improvement 🚀	Complete	Sprint 03	@September 9, 2022 1:20	@September 11, 2022 17:25	32	
Remove null clients from list in backend when a message is going to be sent	Medium	Bug 🐞	Complete	Sprint 04	@September 14, 2022 20:04	@September 14, 2022 20:16	0	Made to prevent errors. Every 3 minutes, check if there are null clients in the list.
Extract to a JSON the router structure in App component	High	Refactor 🔧	Complete	Sprint 03	@September 8, 2022 16:11	@September 8, 2022 16:54	0	Make an array of objects that have: path, type (public, private or admin), component. If public, add restricted or not
Add style to have chats structured in a grid in Home view	High	Improvement 🚀 Task 🔧	Complete	Sprint 03	@September 7, 2022 21:12	@September 8, 2022 2:10	1.5	
Administrators and teachers must have access to invitation code of a chat	High	Improvement 🚀	Complete	Sprint 04	@September 12, 2022 23:00	@September 13, 2022 1:00	0	When clicking the chat name or show next to it
Remove express and file to serve frontend (since Vercel does not need it)	Very high	Refactor 🔧	Complete	Sprint 03	@September 8, 2022 17:06	@September 8, 2022 17:10	0	Vercel uses package.json file
Configure email sender to be able to send emails when users are registered or password are reset	Very high	Improvement 🚀 Task 🔧	Complete	Sprint 03	@September 9, 2022 0:05	@September 9, 2022 1:11	0.5	
Make a Feature readme file	Very high	Documentation 🟦	Complete	Sprint 03	@September 6, 2022 20:00	@September 7, 2022 0:13	2	
Implement Forgot password functionality and improve reset password. When the user wants to change the password in the profile, send a forgotPassword request with the email, then redirect to create password, since it will be correct	High	Improvement 🚀 Task 🔧	Complete	Sprint 03	@September 9, 2022 20:35	@September 10, 2022 3:06	2.2	Create a new column in users' table (Or a composite value (so a new table is created) with password, reset password and a code to generate when it resets or forgets). The last option implies heavier refactoring (finally first option is implemented). See Forgot password functionality
If user checks the "Remember me" checkbox, extend the expiration time of the access token to 2 weeks or more	High	Improvement 🚀	Complete	Sprint 03	@September 9, 2022 20:05	@September 9, 2022 20:27	0	

Aa Projects	Priority	≡ Type	∴ Status	⊙ Sprint	⊟ Started	⊟ Finished	# Inactivity (h)	≡ Notes
Be able to handle several files at once, to keep the order in which they were sent	Medium	Improvement 🚀	Complete	Sprint 03	@September 6, 2022 1:45	@September 6, 2022 3:00	0	
Disable send button if no text or image is going to be sent	Low	Improvement 🚀 Task 🔧	Complete	Sprint 03	@September 6, 2022 1:00	@September 6, 2022 1:50	0	
Show how many images are attached to the message	Low	Improvement 🚀 Task 🔧	Complete	Sprint 03	@September 6, 2022 1:20	@September 6, 2022 1:40	0	They must be confirmed in the dialog. If the dialog is closed without clicking on the "Attach" button, the files will remain selected but the user cannot send the message. After sending a message, if images were selected but not attached, they are removed from the selection.
Migrate applications from Heroku to Vercel	High	Task 🔧	Complete	Sprint 03	@September 5, 2022 23:00	@September 5, 2022 23:15	0	Only frontend was moved. Heroku will not have free plans after 28th November 2022. Contact Vercel if they have student plans
Add support for having database in localhost	High	Task 🔧	Complete	Sprint 03	@September 2, 2022 18:45	@September 2, 2022 18:56	0	
Send a ping message from frontend to keep the connection alive	Critical 🔥	Task 🔧	Complete	Sprint 03	@September 4, 2022 23:00	@September 4, 2022 23:27	0	
Idle connection of WebSockets	Critical 🔥	Bug 🐞	Complete	Sprint 03	@September 7, 2022 14:22	@September 7, 2022 17:00	1	Needs to be tested. Solved by adding an interval
Fix url when receiving response from server	Critical 🔥	Bug 🐞	Complete	Sprint 03	@August 28, 2022 23:19	@August 29, 2022 0:40	0	
Add functionality for adding more media files	Very high	Task 🔧	Complete	Sprint 03	@August 28, 2022 23:15	@September 2, 2022 17:34	-1	Another Strategy pattern in FileController
Migrate maxWidth determination to backend	Low	Refactor 🛠	Complete	Sprint 03	@August 28, 2022 20:43	@August 28, 2022 20:55	0	
Group multiple images/videos in one message	Low	Improvement 🚀 Task 🔧	Not Started					New message type constant and component
Zoom on scroll (in images)	Medium	Improvement 🚀 Research 🔬	Not Started					
Send the media files with http requests to the server instead of encoding and sending through the WebSocket	Very high	Improvement 🚀 Refactor 🛠	Complete	Sprint 03	@August 27, 2022 14:30	@August 27, 2022 23:45	1.5	Improvement for this task, since through WebSockets the data transmission is limited to few kB.
Add a small dropdown to select the type of file the user is going to send	High	Improvement 🚀	Not Started					
Add support to encode (in base64) files to be able to send to the server as normal WebSocket messages	High	Task 🔧	Complete	Sprint 03	@August 26, 2022 22:50	@August 26, 2022 23:20	0	They are sent as HTTP requests, not through WebSocket, since there is a data size limit. See Upload images from frontend with drag 'n' drop and encode into base64
Add drag 'n' drop to select files to send to the chat	High	Task 🔧	Complete	Sprint 03	@August 26, 2022 20:50	@August 27, 2022 15:00	12	
Add the README.md	Low	Documentation 📘	Complete	Sprint 03	@August 26, 2022 19:05	@August 26, 2022 21:00	0.2	Added file to frontend and backend
Chat statistics - Per user, number of messages, words written…	Very low	Idea 💡 Improvement 🚀	Not Started					
Replace disk reads for memory reads when reading chat history	Very low	Idea 💡 Improvement 🚀	Not Started					
Schedule the upload of the history file to S3 after a period of time	High	Improvement 🚀	Reference	Sprint 03	@August 24, 2022 20:30	@August 24, 2022 20:50	0	See Upload the file to S3 every 10 minutes
Read history from file stored in disk if it is downloaded. To have updated history to new users	Critical 🔥	Bug 🐞 Refactor 🛠	Complete	Sprint 03	@August 23, 2022 18:00	@August 24, 2022 1:00	2	Since it is always downloaded when the first user is connected, if more users connect to the chat, it is only needed to read from the file
Implement pagination of the chat history	Medium	Improvement 🚀 Task 🔧	Complete	Sprint 08	@January 25, 2023 15:54	@January 26, 2023 16:38		Add a "Show more" button in the top of the chat
Do the documentation of the Java code	Very high	Documentation 📘	Complete	Sprint 03	@August 24, 2022 22:47	@August 26, 2022 0:40	12	
Solve problems of websocket connections in remote	Critical 🔥	Bug 🐞	Cancelled					There are no problems now (next day). Because the chat was closed and the history file was uploaded, so no errors occur
Discover the limit to send data through WS to frontend	High	Refactor 🛠	Cancelled			@September 5, 2022 0:29		
Check this lib to support message compression in frontend. Must be implemented in backend since it is written in Java	Very low	Idea 💡 Improvement 🚀 Refactor 🛠	TempCancel					
See this to send partial data (maybe)	Very low	Idea 💡 Improvement 🚀 Refactor 🛠	TempCancel					Maybe change by this
Add a reducer for chat and store the current chat	Medium	Improvement 🚀	TempCancel					Update it before going to the page and take it from the state to show its name in the chat view
Order active users by name	Low	Improvement 🚀	Complete	Sprint 03	@August 23, 2022 20:25	@August 23, 2022 20:34	0	
Use strategy pattern to make MessageHandler more readable	Very high	Refactor 🛠	Complete	Sprint 03	@August 22, 2022 0:16	@August 22, 2022 20:47	15	
Upon connection of the user, receive all the messages of the chat up to a limit of 3 days before	High	Improvement 🚀	Complete	Sprint 03	@August 22, 2022 20:49	@August 22, 2022 23:48	0.75	New message type. Messages are sent after the listeners are set
Show popup when hovering hour of message to display full date	High	Improvement 🚀	Complete	Sprint 03	@August 21, 2022 19:26	@August 21, 2022 20:00	0	Also added dateformat lib. See Show popup when hovering hour of message to display full date

Aa Projects	Priority	≡ Type	∷ Status	⊙ Sprint	▭ Started	▭ Finished	# Inactivity (h)	≡ Notes
When clicking a username in a chat, display a small popup with a button to start a user-user chat or other actions	High	Improvement ✈ Task 🔧	Complete	Sprint 05	@October 26, 2022 23:10	@October 26, 2022 23:48	0	Causes errors and the page turns completely white because the following exception occurs `Rendered fewer hooks than expected. This may be caused by an accidental early return statement.` Update: Initial date: 20 August 0:20 → 21 August 23:23 Now no errors
Edit diagrams and refactor entity classes (relation classes) and SQL definition to make columns match the table name	Very high	Bug 🐛 Refactor 🔧	Complete	Sprint 03	@August 19, 2022 16:41	@August 19, 2022 17:18	0	
Create invitation links to put in profile and join a chat	Very high	Improvement ✈ Task 🔧	Complete	Sprint 03	@September 7, 2022 17:31	@September 7, 2022 20:56	1.5	Add new column in chat table. They are codes, not links (for the moment)
Listen to new messages and check if they are USER_JOINED or USER_LEFT and send a new type of message to get the connected users of the chat in the background	Medium	Improvement ✈	Complete	Sprint 03	@August 19, 2022 22:00	@August 20, 2022 0:17	0	Use ACTIVE_USERS_MESSAGE
Add a list of connected users to the chat view	Very low	Idea 💡 Improvement ✈	Complete	Sprint 03	@August 19, 2022 22:37	@August 20, 2022 0:13	0	
Improve chat with name and more information about it	High	Task 🔧	May change	Sprint 03	@August 18, 2022 19:15	@August 18, 2022 20:19	0.25	
Fix problems adding users to global chat on register	Very high	Bug 🐛	Complete	Sprint 03	@August 17, 2022 20:32	@August 17, 2022 23:20	0.75	IMPORTANT: PK classes are now `@Embeddable` and they are used in related entity class as a private field with the annotation `@EmbeddedId`
Add a global variable in redux state and a custom hook to get the websocket client only when the variable is true (userLoggedIn), if false, create client and then return. This will work like the color theme.	Medium	Improvement ✈ Refactor 🔧	Cancelled					It is implemented with a React Context
Change type of chat in DB to longer name	High	Refactor 🔧	Complete	Sprint 03	@August 16, 2022 20:56	@August 17, 2022 22:30	1	Also changed metadata column to json type
Make chatReducer to shorten loading of home screen when requesting all available chats for a user	High	Improvement ✈ Task 🔧	Complete	Sprint 03	@August 16, 2022 16:55	@August 16, 2022 17:36	0	Added the request of all the chats on login and return to client.
Remove sessionId of the user both in frontend and backend	Medium	Refactor 🔧	Revision					Could be kept to support multi-session connections
Add a callback to client to execute it when a message is sent correctly	Low	Refactor 🔧	Complete	Sprint 03	@August 16, 2022 17:41	@August 16, 2022 17:58	0	
Show available chats to user in home view	High	Task 🔧	Complete	Sprint 03	@August 15, 2022 19:33	@August 15, 2022 23:05	1.4	See Home page with chat selection
Try the reconnection of the WebSocket in frontend	Medium	Improvement ✈	Complete					Reference Send a ping message from frontend to keep the connection alive
How to escape SQL reserved keywords with Spring boot, JPA and Hibernate - Java JEE tutorials by Tarik Chrouki	High	Bug 🐛	Complete	Sprint 03	@August 14, 2022 17:40	@August 14, 2022 17:45	0	
Divide each DropDown into new component and include them in Administration view	Medium	Refactor 🔧	Complete	Sprint 03	@August 18, 2022 20:22	@August 19, 2022 0:15	1.5	Made in 2 phases (Extraction, Refactoring). Also extracted Dialogs to new components
Add groups to all diagrams	Critical 🔥	Task 🔧	Complete	Sprint 03	@August 13, 2022 0:45	@August 13, 2022 14:05	12	
Decide structure of the chat URLs	Very high	Task 🔧	May change	Sprint 03	@August 13, 2022 0:30	@August 13, 2022 1:00	0	
When entering a chat, send a http request to check if the user has access to that chat	Very high	Task 🔧	Complete	Sprint 03	@September 8, 2022 17:23	@September 8, 2022 19:59	0.5	This is done to prevent users to join a chat that is not available to them (modify the URL by hand). See also Restrict the connection to chats. Users can only connect to available ones
Decide chat type names	High	Refactor 🔧	Revision	Sprint 03	@August 13, 2022 0:11	@August 13, 2022 0:30	0	
If several messages are received from the same sender, do not render the username	Very low	Idea 💡 Task 🔧	Not Started					
Add support to compute the color hash that a user has.	Very low	Idea 💡 Improvement ✈	Not Started					
Domain diagram	High	Documentation 📘	Revision	Sprint 02	@August 9, 2022 22:10	@August 9, 2022 22:30	0	13-08-22 > It has changes (add groups)
Use case diagram	High	Documentation 📘	Revision	Sprint 02	@August 9, 2022 23:15	@August 11, 2022 22:58	18	
Classes diagram	High	Documentation 📘	Not Started					
Interaction diagram	High	Documentation 📘	Not Started					
Packages diagram	High	Documentation 📘	Not Started					
Send a confirmation email to new registered users	Medium	Security 🔒 Task 🔧	Not Started					
Spinner on login or register, to know that the request has been sent	Medium	Improvement ✈	Complete	Sprint 02	@August 11, 2022 23:00	@August 11, 2022 23:40	0	
Check that all routes have the correct http method and permissions	High	Task 🔧	Complete	Sprint 02	@August 7, 2022 16:53	@August 7, 2022 17:32	0	

Projects	Priority	Type	Status	Sprint	Started	Finished	# Inactivity (h)	Notes
Update old methods that used ResponseEntity<?> to use the new HttpResponse class	Low	Improvement 🚀 Refactor 🔧	Complete	Sprint 02	@August 6, 2022 23:29	@August 6, 2022 23:42	0	
Implement Degree controller and associated Service in backend	High	Task 🔨	Revision	Sprint 02	@August 6, 2022 16:45	@August 6, 2022 20:48	0.3	
Add the service files to the frontend	Medium	Task 🔨	Ignore					
Make separate classes for Route constants (GET, POST, ...)	Low	Refactor 🔧	Complete	Sprint 02	@August 6, 2022 14:26	@August 6, 2022 16:14	1.5	
Make administrator view in frontend	Medium	Improvement 🚀 Task 🔨	Complete	Sprint 02	@August 6, 2022 12:30	@September 13, 2022 13:42	-1	Implementation of services
Create updated entities in JPA	High	Task 🔨	Complete	Sprint 02	@August 5, 2022 22:15	@August 6, 2022 23:26	12	Check if the entities can contain only the reference object, not the id and the object (see Session last 2 attributes). Update: entities only have the id (if an object of other entity is required)
Check migration guide java-jwt to version 4	Low	Security 🔒	Complete	Sprint 03	@August 12, 2022 20:43	@August 12, 2022 23:56	2.5	
Move ChatMap functionality to Chat class	Low	Refactor 🔧 Task 🔨	Not Started					
Restrict the connection to chats. Users can only connect to available ones	Critical 🔥	Refactor 🔧 Task 🔨	Complete	Sprint 03	@September 8, 2022 17:23	@September 8, 2022 19:59	0.5	See also When entering a chat, send a http request to check if the user has access to that chat
New messages when user joins and leaves a chat	High	Refactor 🔧 Task 🔨	Cancelled	Sprint 02	@August 3, 2022 20:15	@August 4, 2022 22:30		Decided to rollback to the working implementation (create a socket per chat connection)
Use a context in private routes to encapsulate a single WebSocket for all the session	High	Improvement 🚀 Task 🔨	Cancelled			@August 4, 2022 22:30		
Upload images from frontend with drag 'n' drop and encode into base64	High	Task 🔨	Reference					
Add random generated string at the end of media files	Medium	Improvement 🚀 Task 🔨	Not Started					
Add support for all types of files (text, images, videos, audios)	Medium	Task 🔨	Complete	Sprint 02	@August 1, 2022 23:18	@August 3, 2022 0:05	18	Added a builder for comfort, generalized filetype query to S3
Get all files that a user has sent over the time	Very low	Idea 💡	Not Started					
Achievements' system	Very low	Idea 💡 Improvement 🚀	Not Started					
When uploading file (finished chat) delete from disk. If chat is reopened, download file and keep writting	Medium	Improvement 🚀 Task 🔨	Complete	Sprint 02	@July 31, 2022 20:06	@August 1, 2022 23:05	20	Key to check for existence was invalid (.txt was not added to the search which returned false)
Update docs	Very high	Documentation 📘	Complete	Sprint 02	@August 5, 2022 19:50	@August 7, 2022 17:52		
Add a Writer to support message storage in S3. Upload files	High	Improvement 🚀 Task 🔨	Complete	Sprint 02	@July 31, 2022 19:55	@July 31, 2022 20:05	0	
Check token on connect to websocket	Medium	Improvement 🚀 Security 🔒 Task 🔨	Revision	Sprint 02	@August 5, 2022 20:30	@August 15, 2022 17:04	-1	
Better handling of chats with a new class	Low	Refactor 🔧	Complete	Sprint 02	@July 31, 2022 15:45	@July 31, 2022 17:22	0	
Migrate backend to spring websocket support with custom Handlers	High	Refactor 🔧 Task 🔨	Complete	Sprint 02	@July 30, 2022 18:42	@July 31, 2022 15:00	10	Client is receiving 403 code from the server
Migrate from Java-WebSocket lib to Jetty websockets in backend	High	Refactor 🔧 Task 🔨	Complete	Sprint 02	@July 29, 2022 21:03	@July 30, 2022 15:59	14	Tested with an auxiliary file in frontend
Migrate from native WebSocket to websocket library in frontend	High	Refactor 🔧 Task 🔨	Cancelled	Sprint 02	@July 30, 2022 16:05	@July 30, 2022 17:31		I can use the native WebSocket. 1.5 hours lost 😕
Migrate from native WebSocket to SockJS and	Medium	Refactor 🔧	Cancelled			@July 30, 2022 23:00		See update. Tested but it did not work.
Provide more style to message components	High	Improvement 🚀 Task 🔨	Complete	Sprint 02	@July 28, 2022 17:05	@July 28, 2022 20:33	0.8	Can be updated anytime
If up arrow key is pressed, visit the message history	Very low	Idea 💡 Improvement 🚀	Not Started					
Show incoming messages in ChatBox	High	Task 🔨	Complete	Sprint 02	@July 27, 2022 20:30	@July 28, 2022 16:55	14	1 - Only shows the last message received 2 - I lasted 6 minutes the following day after watching how to use prevState in setter
Make a record class to identify the WS user in backend	High	Refactor 🔧 Task 🔨	Complete	Sprint 02	@July 27, 2022 17:57	@July 27, 2022 18:42	0	
Receive message in component	High	Refactor 🔧 Task 🔨	Complete	Sprint 02	@July 27, 2022 0:48	@July 27, 2022 2:07	0	
Improve storage of clients in backend	High	Task 🔨	Complete	Sprint 02	@July 26, 2022 22:52	@July 27, 2022 0:32	0.6	WSClientID record was created
Improve message handling between front and back	High	Refactor 🔧 Task 🔨	Complete	Sprint 02	@July 26, 2022 18:20	@July 26, 2022 21:28	0.6	
Clear the sensitive headers to send the received message to other clients in backend	Critical 🔥	Refactor 🔧 Task 🔨	Complete	Sprint 02	@July 26, 2022 18:22	@July 26, 2022 18:38	0	

Projects	Priority	Type	Status	Sprint	Started	Finished	# Inactivity (h)	Notes
Limit rate at which users can send messages to 6 per second	Very low	Idea 💡 Improvement 🚀 Task 🔧	Not Started					
Return an existing session to the user that logs in with other host	Very low	Idea 💡 Improvement 🚀 Task 🔧	Not Started					
Add the sessionId when sending the response to the client	High	Refactor 🔧 Task 🔧	Complete	Sprint 02	@July 26, 2022 16:37	@July 26, 2022 17:30	0.25	Previously it was sent the date of sign in
Make a deploy test in Heroku, to verify the functionality of the sockets	High	Research ⚠️	Complete	Sprint 02	@July 28, 2022 17:42	@August 5, 2022 0:45	-1	Working with S3 correctly, remains connecting to available chats, not the one you want
Receive messages in frontend from other clients and log to console	High	Task 🔧	Complete	Sprint 02	@July 26, 2022 0:30	@July 26, 2022 1:28	0	Received and printed in class, not component
Configure frontend to send messages. Create class and Hook	High	Task 🔧	Complete	Sprint 02	@July 25, 2022 19:34	@July 26, 2022 0:34	1.7	
Logout check	Low		Not Started					
Messages could be fragmented. Add an attribute in the JSON	Very low	Idea 💡	Cancelled					
File writing from several threads (maybe use synchronized)	Low		Cancelled					
Create WebSocket server	High	Task 🔧	Complete	Sprint 02	@July 23, 2022 20:15	@July 24, 2022 1:12	1.5	
When sending an empty message, write nothing in the response	Critical 🔥	Refactor 🔧 Task 🔧	Complete	Sprint 02	@July 23, 2022 17:40	@July 23, 2022 17:47	0	
Send messages to other members of the chat	Critical 🔥	Task 🔧	Complete	Sprint 02	@July 24, 2022 14:48	@July 26, 2022 1:28	14	
Update security of the routes. Make a separate class or something	Low	Refactor 🔧 Task 🔧	Complete	Sprint 02	@July 21, 2022 20:00	@July 21, 2022 20:57	0	
Move header of message up one component (to ChatMessage.jsx)	Medium	Task 🔧	Complete	Sprint 02	@July 21, 2022 19:27	@July 21, 2022 19:47	0	
Check the date in which the message was sent, to write correctly to the file	Critical 🔥	Bug 🐞 Task 🔧	Complete	Sprint 02	@July 27, 2022 0:26	@July 27, 2022 0:29	0	
Add a new table in DB (Chats)	Critical 🔥	Task 🔧	Complete	Sprint 02	@July 21, 2022 17:20	@July 21, 2022 19:06	0.5	
When hovering the date of the message, show full date (with millisecond precision)	Low	Task 🔧	Reference					
Show a division of messages per day	Low	Task 🔧	Not Started					
Font size selector	Low	Improvement 🚀 Task 🔧	Not Started					
Upload the file to S3 every 10 minutes	Medium	Improvement 🚀 Task 🔧	Revision	Sprint 03	@August 24, 2022 20:30	@August 24, 2022 20:50	0	Do this if a chat has clients for this amount of time
Store messages in a file with history	High	Task 🔧	Complete	Sprint 02	@July 21, 2022 22:00	@July 21, 2022 23:30	0.4	
Send messages from front to back	High	Task 🔧	Complete	Sprint 02	@July 21, 2022 19:55	@July 21, 2022 21:18	1	1 hour interrupted, I was updating the security routes in a separate class.
Read messages in backend	High	Task 🔧	Complete	Sprint 02	@July 21, 2022 21:20	@July 21, 2022 21:30	0	
More style to chat and messages	Medium	Task 🔧	Complete	Sprint 02	@July 20, 2022 17:55	@July 20, 2022 23:55	2	Messages are broken in several lines if long
Basic chat page	High	Task 🔧	Complete	Sprint 02	@July 19, 2022 17:00	@July 19, 2022 23:50	1.5	
Add custom Drop Down, password reset and more info in profile	High	Task 🔧	Complete	Sprint 02	@July 16, 2022 22:04	@July 17, 2022 0:05	0	
Enter the app as anonymous user and after the session is closed, all the data, messages, etc. is deleted	Very low	Idea 💡	Cancelled					
Make a Router class to configure HTTP methods and permissions	Low	Task 🔧	Cancelled	Sprint 01	@June 27, 2022 11:26	@June 27, 2022 11:29	0	
Change color themes to fit logo	Low	Improvement 🚀	Not Started					
Show all opened sessions of user in profile view	Medium	Task 🔧	Complete	Sprint 01	@June 26, 2022 0:50	@June 26, 2022 1:15	0	
Profile page with user data (session, name, ...)	High	Task 🔧	Complete	Sprint 01	@June 26, 2022 23:30	@July 17, 2022 0:04	-1	
Home page with chat selection	Medium	Task 🔧	Reference					
Improve request handling in filters. Put data in some attribute in the custom class instead of request.setAttribute()	High	Refactor 🔧 Task 🔧	Complete	Sprint 01	@June 25, 2022 15:00	@June 25, 2022 15:20	0	

Projects	Priority	Type	Status	Sprint	Started	Finished	# Inactivity (h)	Notes
Frontend API url change when code is in production or in development env	High	Bug 🐛 Refactor 🔧	Complete	Sprint 01	@June 25, 2022 0:30	@June 25, 2022 0:50	0	
App renaming	High	Refactor 🔧	Complete	Sprint 01	@June 24, 2022 23:54	@June 25, 2022 0:15	0	
Solve problem with Instant class of the domain models	High	Bug 🐛 Refactor 🔧	Complete	Sprint 01	@June 24, 2022 22:45	@June 24, 2022 23:15	0.25	ObjectMapper must have JavaTimeModule registered
Refactor Responses with the new class	Medium	Refactor 🔧 Task 🔨	Complete	Sprint 01	@June 24, 2022 22:00	@June 24, 2022 22:33	0	
Improve custom HttpRequest functionality	High	Task 🔨	Complete	Sprint 01	@June 24, 2022 0:05	@June 24, 2022 1:04	0	Little modification was done
Improve custom HttpResponse functionality	High	Task 🔨	Complete	Sprint 01	@June 23, 2022 22:40	@June 24, 2022 3:08	0	
Migration of frontend to other repo	Critical 🔥	Bug 🐛 Refactor 🔧 Task 🔨	Complete	Sprint 01	@June 23, 2022 0:37	@June 23, 2022 1:35	0	
Better configuration of deployment CORS config	Critical 🔥	Task 🔨	Complete	Sprint 01	@June 22, 2022 20:30	@June 23, 2022 1:35	1.5	
Configure deploy functionality	Critical 🔥	Initialization 🎃 Task 🔨	Complete	Sprint 01	@June 21, 2022 13:00	@June 22, 2022 1:46	3	
Backend register functionality	Critical 🔥	Task 🔨	Complete	Sprint 01	@June 20, 2022 21:15	@June 24, 2022 22:05	26	
Toolbar with theme switcher	Critical 🔥	Task 🔨	Complete	Sprint 01	@June 20, 2022 20:55	@June 20, 2022 21:03	0	
Store, Reducers and Actions for Redux	High	Task 🔨	Complete	Sprint 01	@June 20, 2022 20:41	@June 20, 2022 20:50	0	
Theme switcher and color palette	Low	Task 🔨	Complete	Sprint 01	@June 20, 2022 20:36	@June 20, 2022 21:03	0	
Register page and switch between Login and Register	High	Task 🔨	Complete	Sprint 01	@June 20, 2022 20:26	@June 20, 2022 20:45	0	
Forgot password functionality	Medium	Task 🔨	Reference					
Documentation - All diagrams	High	Documentation 🟦 Initialization 🎃	Not Started					
Migration from Timestamp to LocalDateTime	Medium	Refactor 🔧	Cancelled	Sprint 01	@June 17, 2022 15:45	@June 17, 2022 15:50	0	Made with IntelliJ UI JPA Inspector. Returned to Timestamp because Jackson cannot make correct bindings for that type
Remove Service's interfaces	High	Refactor 🔧	Complete	Sprint 01	@June 17, 2022 14:00	@June 17, 2022 14:17	0	
Fix CORS security	Critical 🔥	Bug 🐛 Task 🔨	Complete	Sprint 01	@June 15, 2022 17:50	@June 15, 2022 18:56	0	Improved using WebMvcConfigurer in main class with a Bean. This configures CORS globally
When receiving a request, check if the token exists in DB	High	Task 🔨	Not Started	Sprint 01	@June 16, 2022 18:00			
Fix login controller does not work after AuthenticationFilter	Critical 🔥	Bug 🐛 Configuration ⚙️	Complete	Sprint 01	@June 15, 2022 13:00	@June 15, 2022 14:10	0	Problem with the LogoutFilter. Removed
Improve Logout functionality with a Filter an then call the controller	High	Task 🔨	Cancelled	Sprint 01	@June 15, 2022 2:00	@June 15, 2022 18:40	7	
Solve problem with user creation by admins	Critical 🔥	Bug 🐛 Task 🔨	Complete	Sprint 01	@June 15, 2022 0:29	@June 15, 2022 1:08	0	I'm a bit idiot
Ability to close all sessions of the user	Medium	Task 🔨	Not Started					
Update DB to include refreshToken	High	Configuration ⚙️ Task 🔨	Complete	Sprint 01	@June 14, 2022 21:43	@June 14, 2022 21:48	0	
SessionService update when refreshToken is used	Medium	Task 🔨	Not Started					
Implement SessionService with capability to save, delete	High	Task 🔨	Complete	Sprint 01	@June 14, 2022 21:37	@June 14, 2022 22:00	0	
Improve Filters with annotations	Medium	Refactor 🔧	Cancelled	Sprint 01	@June 15, 2022 0:18	@June 15, 2022 0:27	0	
Backend routes with constants	Medium	Configuration ⚙️ Task 🔨	Complete	Sprint 01	@June 14, 2022 13:16	@June 14, 2022 14:12	0	
Be able to manage request in controller after passing a Filter	Critical 🔥	Configuration ⚙️	Complete	Sprint 01	@June 14, 2022 17:30	@June 14, 2022 20:40	1	
Document - Design model	High	Documentation 🟦 Initialization 🎃	Complete	Sprint 02	@August 9, 2022 19:50	@August 9, 2022 20:15	0	
Document - Requirements specification	High	Documentation 🟦 Initialization 🎃	Complete	Sprint 01	@June 20, 2022 14:00	@June 20, 2022 20:23	2	
Document - Use cases	High	Documentation 🟦 Initialization 🎃	Not Started					
Backend login with JWT tokens	High	Task 🔨	Complete	Sprint 01	@June 13, 2022 19:00	@June 14, 2022 2:30	2	
From Cayenne to JPA	High	Configuration ⚙️ Task 🔨	Complete	Sprint 01	@June 13, 2022 13:53	@June 13, 2022 18:00	3	
Configure Spring security with basic requests	Critical 🔥	Configuration ⚙️ Task 🔨	Complete	Sprint 01	@June 13, 2022 23:15	@June 15, 2022 1:55	9	

Aa Projects	Priority	☰ Type	☼ Status	⊙ Sprint	▭ Started	▭ Finished	# Inactivity (h)	☰ Notes
Translate Relational diagram to SQL	High	Initialization 🎉	Complete	Sprint 01	@June 12, 2022 23:40	@June 13, 2022 0:20	0	
Probar el módulo de traducción en Frontend	Very low	Idea 💡	Not Started					
Create Relational diagram	High	Documentation 🟦 Initialization 🎉	Complete	Sprint 01	@June 11, 2022 22:18	@June 12, 2022 2:30	3	
Create the model classes with Cayenne Modeler	Medium	Initialization 🎉	Cancelled	Sprint 01	@June 13, 2022 0:20	@June 13, 2022 0:45	0	Migration to JPA
Create ER diagram	High	Documentation 🟦 Initialization 🎉	Complete	Sprint 01	@June 11, 2022 13:15	@June 11, 2022 22:15	3	
Sistema de menciones	Very low	Idea 💡 Research 🔬	Not Started					
How To Build React with Java Backend For Production | by Bhargav Bachina | Bachina Labs | Medium	Very low	Idea 💡 Research 🔬	Complete					
How To Develop and Build React App With Java Backend | by Bhargav Bachina | Bachina Labs | Medium	Very low	Idea 💡 Research 🔬	Complete					