# Upload Chat Service

Michael Webb @mjwebb1993 on GitHub

# Description

Upload Chat Service, or UCS, serves to offer users simple and easy to use features, such as uploading data and real time communication, in a single piece of software. This will give users an oppurtunity to streamline their everyday needs into one place, instead of utilizaing various pieces of software.



#### Features

- Creating and Authentication of User Accounts
- Upload various types of data and manage it through CRUD functionality
- Access to a text based chat room for real time communication



# Planning - User Stories

- Account Creation User Story
- A new user will be able create an account with confirmation, and then instantly login to the account.
- Chatroom User Story
- A user will be able to create a username and join other users inside the chatroom to comminucate in real time.
- FileUpload User Story
- A user will be able to select a file from their harddrive and upload it to a sharable link on the server



### Planning - Database

There are two tables in my database, "users" and "files":

- The users table has 3 columns,
  "id", "pw\_hash", and
  "username", which is used in the
  application to authorize users,
  safely store their passwords, and
  give users their own identity
- The files table has 3 columns,
  "id", "file\_name", and
  "file\_type", which is used to help
  identify the data in the db and
  assign it to a user



# Technology Stack

- Java, Javascript
- Spring Boot
- ThymeLeaf
- MySQL
- Gradle, WebSocket, Bootstrap, Jquery, Hibernate



### Demo



### What I Learned

- How to implement a WebSocket into my application
- How to utlilize existing utilities in the Spring Framework to upload data through the application to an already established database
- The importance of resource management in structuring the project and how to better organize various controllers



### What's Next

- Improving the chat feature so a user no longer has to reenter a username to enter the chat room
- Truly connecting the uploaded files to specific users in the database and being able to access the files through the database and not just a link
- Creating a more uniform UI throughout the app, some pages also have a primative look that needs updating for a more positive user experience
- Learning how to be more efficient with WebSockets and potentially adding a saved history feature to the chat room

