

Homework 2 Phase 3 First Deliverable: Data Storage Strategy

❖ Database Structure

➤ Users Database

- Fields currently in database
 - U_ID
 - ◆ Identifying number of the user used for allocation to files, authentication
 - Username
 - ◆ User-friendly name that the user can set, saved in database for authentication implementation
 - FirstName
 - ◆ The user's first name, might not be needed
 - LastName
 - ◆ The user's last name, might not be needed
- Fields not currently in database that I will add
 - Email, Password
 - ◆ Will be implemented when I create a system of user authentication
 - ◆ I will have a user register with their email and password

➤ Files Database

- Fields currently in database
 - F_ID
 - ◆ Identifying number of that file for easier reference
 - Name
 - ◆ The title of the file
 - Filetype
 - ◆ The type of the file (.txt, .pdf, etc.)
 - Authors

- ◆ The original creator of the file
 - ◆ Right now, the author is a name saved as string data in reference to an article, but this might be exchanged for a user ID integer
- CreationTime
 - ◆ The time that the file was originally created
- Source
 - ◆ The user ID of the uploader
- Size
 - ◆ The size of the file in bytes
- UploadTime
 - ◆ The time that the file was uploaded to the database
- Tags
 - ◆ An object with only one item as of now: Status
 - ◆ Status
 - Saves the status of the file, whether that is “Uploaded”, “Analyzed”, or some other status to keep track of, can be added as necessary
- Currently, the data of the file itself is not in the database, this will be implemented for the second deliverable
- Text Database
 - Fields currently in database
 - T_ID
 - ◆ Identifying number of the specific text entered from a file
 - Source
 - ◆ The user ID of the user who is analyzing the specific text entered
 - Text
 - ◆ The text itself
 - Sentiment
 - ◆ The sentiment of the text after it has been analyzed
 - NLP
 - ◆ An object with only one item as of now: Status

- ◆ Status

- Saves the status of the file, whether that is “NotAnalyzed” or “Analyzed”, will most likely be changed to a Boolean