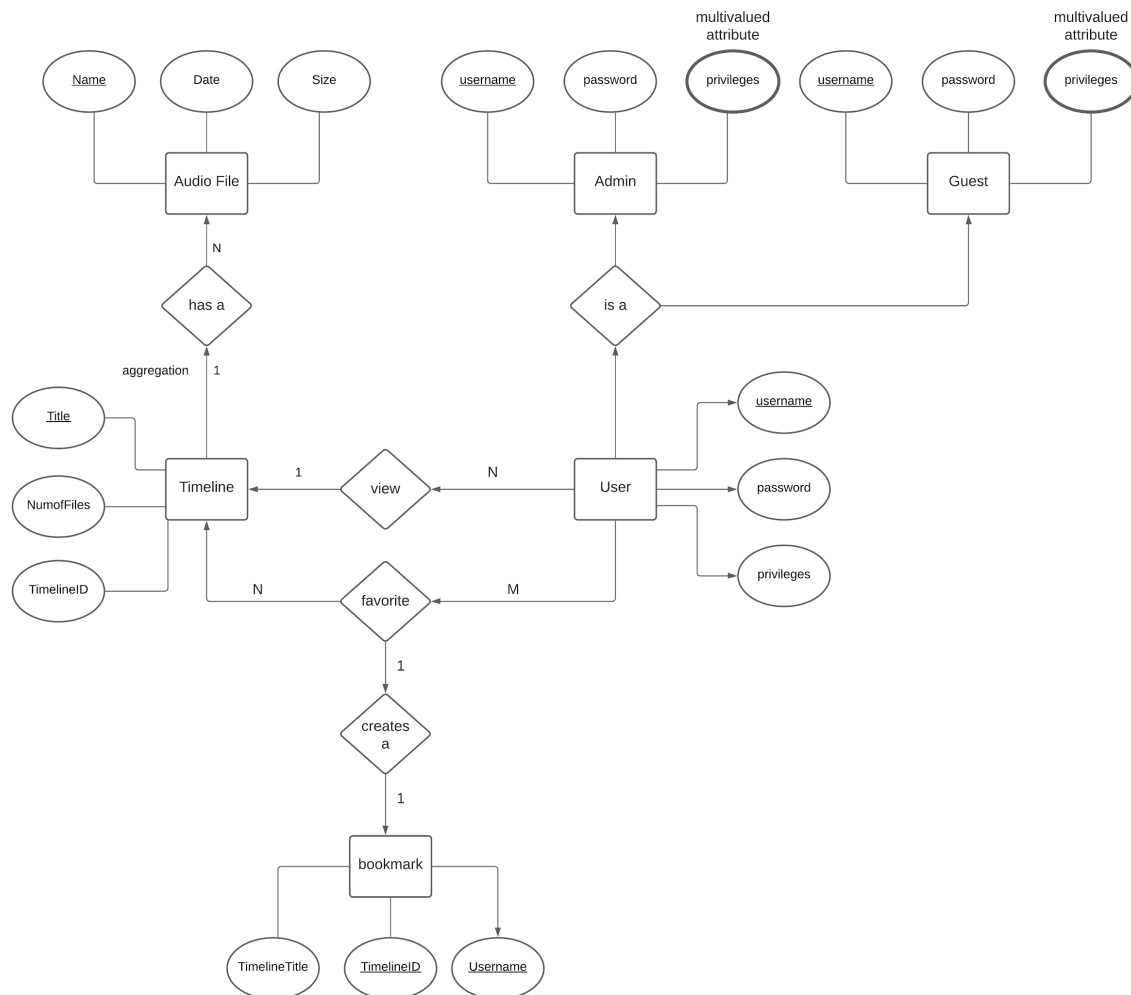Stage 3: Database Model
CSC315 and ENG 371/HON 270
Group 6
Chris Smith, Jack Liddy, Aniello Sabatino, Eain Kelton
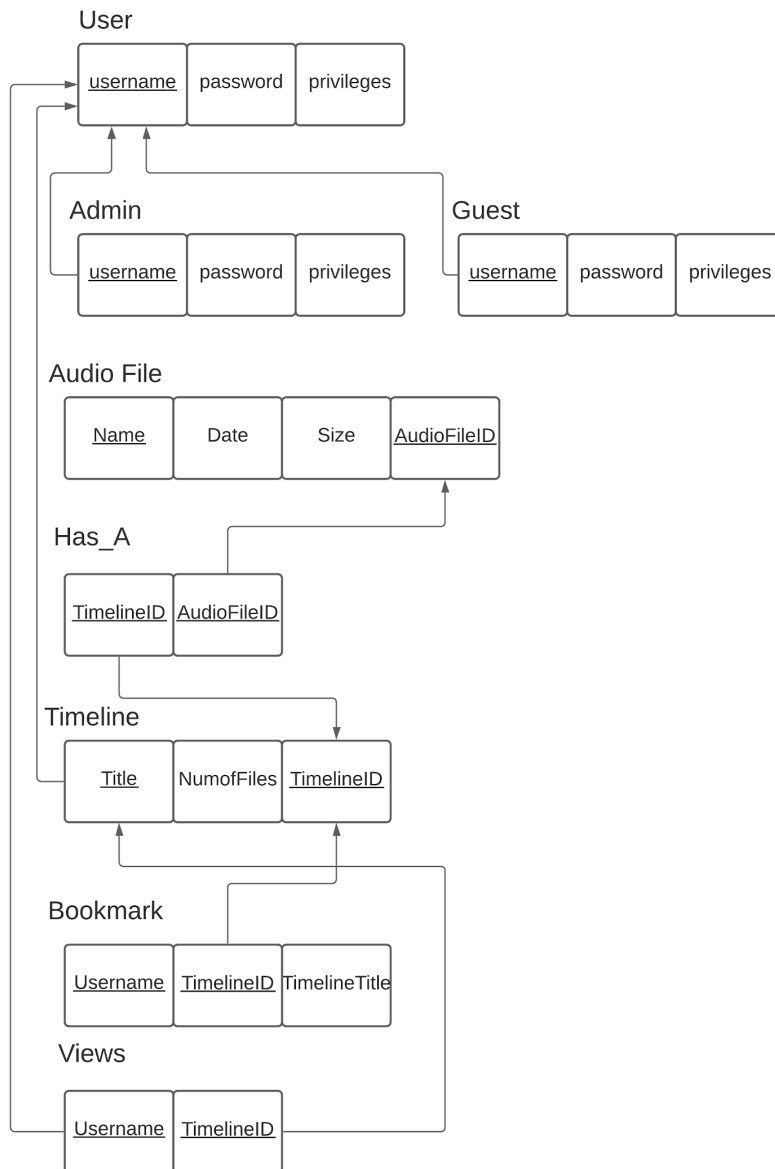
ER Diagram

ER Diagram

Relational Schema

Relational Schema

User

username	password	privileges

Admin

username	password	privileges

Guest

username	password	privileges

Audio File

Name	Date	Size	AudioFileID

Has_A

TimelineID	AudioFileID

Timeline

Title	NumofFiles	TimelineID

Bookmark

Username	TimelineID	TimelineTitle

Views

Username	TimelineID

Database Size and Search Estimates:

- There are 74 audio records included in the Trentoniana Project's archive. Considering possible additions over time, this can reasonably be estimated as about 100 records

- The records can be filtered 13 ways by year, 5 ways by topic & subject, 2 ways by collection, 1 way by media type and can be searched by title. This totals 22 different ways of filtering/searching the records. Many topic & subject items currently included as filters are redundant, and could be removed, making 3 a reasonable estimate. Records may be added in the future with years not currently included, with 20-30 year options being a good estimate (including undated records). One collection option is labeled "favorites" and does not seem necessary. Considering the Trentoniana Project's archive is considered a collection, only 1 collection option is needed. Since the only medium of these records is audio, this means only 1 media option is needed, and of course searching by title will remain 1 option. Therefore, about 25-35 filtering/searching types would be needed.

- Given that the project is relatively small-scale, with only 74 records and a rather small audience, it's reasonable to estimate the database will have about 100 searches per day.