CS3103 Project B – Database Design

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ERD:

Diagram

Description automatically generated

For the ERD part, we’ll have mainly 4 tables: User, Video, VideoList and Video\_VideoList. It is obvious that a user can create videos and video lists. A user can have multiple videos and multiple video lists, and multiple videos can exist in one single VideoList. Video\_VideoList table is for storing 1-1 Video-VideoList relationship, in order to identify which VideoList has what videos.

All Stored Procedures:

1. loginUser: Check username and password

2. createUser: Create a new user

3. getUserByName: Get a specific user via username

4. updateUser: Update the info of an existing user providing username

5. delUserByName: Delete a specific user providing its username

6. createVideo: Create a video for a specific user

7. getUserVideo: Get all the videos of a user

8. getVideoById: Get a user's video

9. updateVideoLike: Update the likes of a spefiic video

10. delVideoById: Delete a user's video

11. createVideoList: Create a video list for a user

12. getUserVideoList: Get all the videolists of a user

13. getVideoInVideoList: Get the info of a videolist (videos, essentially)

14. updateVideoList: Update existing videolist info

15. delVideoList: Delete a videolist for a user

16. addVideoToVideoList: Add a video to a videolist

17. delVideoFromVideoList: Delete a video from a videolist