The purpose of this project is to design and implement a video distribution and sharing network (similar to YouTube service). This project consists of three

The department is formed:

 Designing the corresponding ER diagram

 Converting charts to SQL tables and filling the tables with sample data

 Implementation of a Command Line Interface to communicate with the database

Description of system features

 User information includes username, email, password, membership date and profile picture.

 Video information includes name, upload date, description text, video duration and thumbnail photo.

 Channel information includes name, creation date, photo and a short description about it.

 The user can create a video sharing channel and upload his videos in it and delete the videos in it.

 The user can watch the videos of other users, this should be recorded.

 The user can register a comment for each video or recorded comments, as well as like or dislike them.

 The user can delete his registered comments.

 The user can create a number of playlists for himself, add videos to it or remove existing videos from the list. This is the list

By default, they can only be seen by him, but the user can make them public. Playlists by its creator

can be deleted.

 Every user has a Later Watch playlist by default, which cannot be deleted by him.

 Users can join a channel and cancel their membership.

 Users can search between video names, channels and public playlists.

 Information on the number of times watching videos, like and dislike videos and comments, channel members should be able to receive.

When a video is deleted, its comments are also deleted.

 When a comment is deleted, the related comments should not be deleted and should still be available with the video.

 When a channel is deleted, the related videos are also deleted.

Tips for implementing the second phase

 Use PostgreSQL database management software for implementation.

 Password storage should be in the form of Hash password. It is up to the student to choose the Hash type.

 Columns that are searched a lot based on them should be indexed (for example, video name).

 For video and photo storage, it is enough to have a Storage ID column (this value must be unique).

Tips for the implementation of the third phase

 You can use Go, Javascript, Java, Python languages for implementation.

 It is not possible to use ORM libraries.

 In case of a problem, an appropriate error should be shown to the user.

 To show the video and photo, it is enough to show the relevant Storage ID.