ITEC275 Final Project

The final project for ITEC275 can be completed using SQL Server, SQLite, or any other instructor approved database system. The user interface can be created using windows forms, windows presentation foundation, ASP.NET MVC / Razor pages, or any other instructor approved user interface. If multiple projects are being created you may choose to write part of the application in windows forms and the other part in razor pages for example. To transact the database you can use entity framework or basic SQL queries.

Project

Design a project that will allow users to register for accounts and create live group quizzes. While designing this project you may want to create two separate applications, one to create content and one to consume content.

Each quizzes can be marked as public or private. Items that are marked private will only be accessible by the creator of the item, or those who have been granted access by the creator. Public items will be accessible by anyone, you can determine if logging in is required to view public materials or not. A registered user should be able to create a new live quiz similar to other applications like Kahoot!, Rival IQ, etc. When a user starts a live quiz, an access code will be generated so that other users can join the quiz without logging in. A live quiz should support nicknames and keep track of each participant’s statistics: time to answer, correct and incorrect responses.

Each live quiz question should be multiple choice, if time permits you can create fill in the blank or other types of questions. All questions for a live quiz should support a specified time limit.

During a live quiz the user hosting the quiz should be prompted to advance to the next question, at the end of each question it should summarize the score of each user participating in the quiz.

To help complete the project you may use and extend the items below, or create your own schema from scratch:

* Users (ID, Username, Password)
* Quiz (ID, User, CreateDate, Access)
* Questions (ID, QuizID, User, CreateDate, QuestionText, Access)
* Question Answers (ID, QuestionID, User, CreateDate, AnswerText, Access)
* AnonUser (ID, NickName)
* Live Game (ID, QuizID, StartedDate, EndedDate)
* Live Question (ID, LiveGameID, QuestionID, EndDateTime)
* Live Answer (ID, AnonUser, QuestionID, AnswerID, AnswerDate)
* User Interfaces
* Registration
* Login
* Quiz
* Questions
* Answers

You must create a demo quiz using your program that has at least 15 questions for testing.