COP4710 PROJECT DESCRIPTION

Spring 2019

<u>Note</u>: The description is not fully complete on purpose to leave room for innovation.

Your startup team develops a Website to provide online survey services. To use this service to conduct surveys, the user needs to create an account using a valid email address.   You might want to send an email to a new user to validate the email address.

Creating A Survey

To create a survey, the user provides the following information:

- the title of the survey
- a list of email addresses of the survey participants
- description of the survey
- the survey period (i.e., start date and end date)
- the survey questionnaire

    ➢ Type-1 question receives a number between 1 and 5 as the answer, with 1 being most negative and 5 most positive (Type-1 is default)
    ➢ Type-2 question receives a text answer up to 200 words

The above information is saved to a relational database.

Participating in a Survey

The system sends an email to invite the participants for a given survey. It includes information on the total number of invitees (for survey anonymity assessment). A URL is provided for the invitee to take the survey online. The system verifies that each invitee may submit <u>only one</u> survey. For each Type-1 question, an invitee can select a number between 1 and 5 as the answer. Up to 200 words may be entered to answer a Type-2 question. A participant may save an incomplete survey to be completed later (using the same URL provided in the inviting email). Once finished, the form is submitted by hitting the "submit" button to complete the survey. A survey is closed after the survey period.

Viewing Survey Results

The survey creator may view the survey results (stored in a relational database) after the survey period. The system lists all the surveys by a given creator, ordered by their closing dates.   He/She may select one survey from this list and retrieve the following information:

- the title of the survey
- the survey description
- the survey period
- the survey questionnaire
- the means and variance for each Type-1 question
- the list of answers for each Type-2 question
- any additional information you think helpful

The survey creator may print out the survey results. The survey report can also be saved to a file in a local computer. Your design must make sure that all the survey responses are kept anonymous (VERY IMPORTANT !!). They cannot be traced back to the respondent.

Other Services

The Website saves all the surveys and results in a relational database until the creator deletes them. For each old survey, the creator can review the survey results again as needed. You might want to support both regular desktop computers and mobile phones.

Project Demo

The software is due on April 16, 2019. All team members must participate in the demo presentation. Each must contribute to the coding of the software. Turn in a brief report to explain how the work is divided among the team members. Each team has 10 minutes to give the demo in class. The demo scenario must include the following features, in addition to any innovative capabilities:

- A new user *X* creates an account with your Website
- An existing user *Y* has an on-going survey with two Type-1 questions, and one Type-2 question.
- Nine participants have taken this survey (prepared in advance to save demo time)
- The 10th participant takes this survey during the demo
- User *Y* views the results of the above survey and saves the report to a local file
- User *Y* creates another survey with one Type-1 question and one Type-2 question for two participants
- User *Y* views the list of his surveys

Grading Policy

Each student will receive an individual score based on: (1) the contribution to the team effort, and (2) his/her attendance of the demo presentations by the other 16 teams. Attendance will be given; and everyone is expected to ask questions and give comments.