

BILKENT UNIVERSITY
2014-2015 SPRING SEMESTER
CS353-DATABASE DESIGN
TERM PROJECT PROPOSAL REPORT

Group Members:

Ali Naci Uysal

Burak Eserol

Mert Gür

Description

For this term project, we will design a question answering system for Bilkent University students. Our web application will get questions from students (regular users) and provide an opportunity for other students to answer them in response. It is a necessity to have a database for this application in order to maintain users' information, questions, and answers etc. Hereby, other students will have a chance to find solutions (if present) to their own questions by looking at the questions and answers, which are provided by other users, related to their problems.

Requirements

There will be two roles for the system. These roles are regular users and moderators with various privileges. Mentioned roles will have different privileges and opportunities within the system.

Functional Requirements for Regular User

- Regular user will be able to ask questions.
- Regular user will be able to answer questions.
- Regular user will be able to comment on another users' questions and answers.
- Regular user will be able to edit his/her own question.
- Regular user will be able to follow multiple tags to be informed of new questions related to the tags he/she is following.
- Regular user will be able to see recent questions in the system.
- Regular user will be able to search for and see tag(s).
- Regular user will be able to vote questions, answers, and comments of other users.
- Regular user will be able to gain reputation based on how their questions and answers are.

- Regular user will be able to accept other users' answers related to his/her question.

Functional Requirements for Moderator

- Moderator will be able to answer questions.
- Moderator will be able to delete a question.
- Moderator will be able to delete answer(s) of regular users.
- Moderator will be able to delete regular users' comments.
- Moderator will be able to create new tags.
- Moderator will be able to update existing tags.
- Moderator will be able to delete existing tags.
- Moderator will be able to see existing tags.
- Moderator will be able to feature a question to make the question reach regular users more.

Limitations

- Each regular user can give at most 1 answer to each question.
- Each regular user can vote a question, comment, or question only once.
- Answers or comments can be added to an existing question.
- Regular users or moderators can not be deleted.
- Questions, comments, or answers can only be deleted by moderators.
- Regular users can not ask questions, give answers, or make comments to a question consecutively to avoid spamming, i.e., can only do the mentioned operations after a certain amount of time passes over his/her previous question submission.
- User can ask a question using at least 1, at most 5 tags.

E/R Diagram

Abbreviations: QhasT, Question has tag.

QhasC, Question has comment.

QhasA, Question has answer.

ChasA, comment has answer.

