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The purpose of StudyBase is to create an online community dedicated to helping its users to further their understanding and knowledge of any subject taught at any school around the world, as well as allowing its users to help other users to do the same. The size of StudyBase is fully dependent on its users. The more people who use StudyBase the more content it will have. Likewise, the more content it contains the more useful it becomes.

User Requirements

- A way to create an account
- A way for users to differentiate between a Student account or Instructor account
- A way for users to log into an existing account
- A way to retrieve lost/forgotten user information
- A way for users to specify what school and courses they are enrolled in.
- A way for users to post questions/problems, explanations/walkthroughs of question/problems solutions, and Answers.
- A way for users to post explanations/walkthroughs , and solutions to question/problems that other users have posted.
- A way for users to vote up or down explanations/walkthroughs and Answers that they found useful.
- A way for users to search the database based on specific criteria.
- A way for users to be quizzed on questions/problems they and/or other users have posted
- A way for users to track what types of questions they do well on and types they still need to work on.
- A way for Instructors to view student preference for classes they instruct.

Use Case Scenarios

- First a new user would have to create an account. This would include choosing a username and password as well as specifying weather they were a student or an instructor and what school they are from.
- Once the user has an account they can then login gaining access to all content.
- The user can then select what subject and coarse they would like to work on.

- Perhaps the student is looking for help on a specific type of problem that they just cant seem to wrap their head around. So they create a new question/problem without an answer and post it. Once the post has been made other users can now see that there is a question/problem that has no answer and they can post explanations/walkthrough and a solution. Like Wikipedia users could then vote these explanations and solutions up or down so that the most helpful answers rise to the top.
- A user with a really strong grasp on a specific topic so they decide to post an example question/problem with an explanation and a solution. These posts could also be voted on so that again the most helpful and well explained content rises to the top.
- These users would be granted the power to verify solutions as well.
- A user looking for an example on how to do a specific type of problem can search the database in the desired subject for the desired topic to get a list of all the existing questions/problems that meet specified requirements.
- When a student user wants to study they can use StudyBase to quiz them. quizzes could be generated by the user creating flash card style questions and answers for themselves or by having StudyBase selecting the most popular questions randomly from the database on the specified topics.
- A user that is an instructor could use StudyBase to create review quizzes for their students. Just as the students could create a series of questions and answer flash cards to quiz themselves the instructor could do the same with all of the types of problems that might be seen on a test. Then the instructor could send out the review or practice quiz to all of their students.
- A user that was an instructor could verify the correctness of answers to questions/problems. The questions/problems that have verified answers would then show up higher on search lists and be marked as verified.