

SafeAssign Originality Report

SOFTWARE DESIGN • SafeAssign Checking Task 3

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Submission UUID: e1b2de6b-44e0-f005-cb55-5aa4d141496a

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| | Design Pattern.docx | | 10:34 AM GMT+8 | Highest: Design Pattern.docx |

Attachment 1 0 %

Word Count: 102
Class Diagram.docx

Class Responsibilities: The user class stores information on the user, asks questions, creates answers and can upvote or downvote a question. The forum class displays all the questions and answers. The moderator class moderates the forum by evaluating posts and making sure they adhere to forum guidelines. The questions class stores all questions in the forum and the drafts of each question. The answer class stores all answers in the forum. The votes class stores the number of upvotes and downvotes of each post. The tags class stores the tags that can be searched by the user to filter questions.

Class Diagram:

Source Matches (0)

Attachment 2 0 %

Word Count: 161
Design Pattern.docx

Problem: If a user is interested in a specific question, they would want to know if there are any new updates or answers related to it. However, it is a waste of time for the user to check the question every day for updates even when nothing new is posted. To solve this issue, we can use an observer design pattern. When a user creates or answers a question, the question is automatically bookmarked in the user's profile. Users who are interested in the question can also bookmark it. When new answers are added to the question, the users who have bookmarked the question will receive a notification so they can stay updated. Justification: Since a change of state in the question (new answer uploaded) will trigger a notification to multiple users (observers), we can use an observer design pattern. In this problem, the subject is the question while the observers are users who have bookmarked the question. Design pattern UML:

Source Matches (0)