A4: Conceptual Data Model

SegFault is a collaborative platform for programmers to learn, discuss different approaches, present ideas and share knowledge in a Q&A style. To this end, the following sections provide detailed insight into the project's conceptual data model, featuring class diagrams and business rules.

1. Class diagram

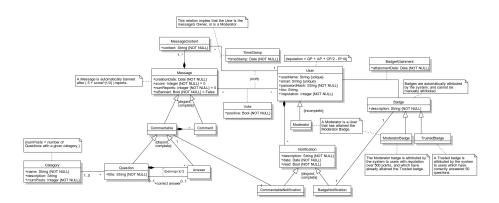


Figure 1: UML Diagram. Link here.

2. Additional Business Rules

Identifier	Name	Description
BR01	Correct Answer restriction	There can only be one answer marked as correct, per question.
BR02	Self voting restriction	Users can't vote on their own messages.
BR03	Reputation points	Reputation points will be calculated according to the formula: $QuestionPoints + AnswerPoints + \frac{CommentPoints}{2} - Reports * 10.$
BR04	Number of categories	A question must have between one and five categories, <i>inclusive</i> .
BR05	Moderator Badge	Having achieved 500 reputation points and been awarded the Trustworthy Badge, a Member automatically gets a 'Moderator' badge, and thus becomes a Moderator.
BR06	Trusted Badge	Having correctly answered over 50 questions, a Member automatically gets a 'Trusted' badge.

Identifier	Name	Description
BR07	Delete	Whenever an Answer is deleted the respective
	Answer	Comments should be deleted as well.
BR08	Delete	Whenever a Question is deleted the respective
	Question	Answers (their comments) and the Question
		comments should be deleted as well.
BR09	Banned	A message is automatically eliminated after being
	Message	reported over $(5 + score^{\frac{1}{3}})$ times.
BR10	Edited	An edited message must be adequately marked as
	Message	such.

Revision history

 \bullet 15/03/2018: Updated the UML diagram according to the professor's recommendations.

• 16/03/2018: Added business rules to the UML diagram.

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