# 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

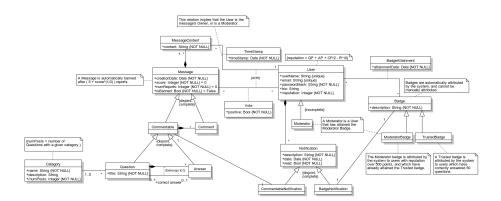


Figure 1: UML Diagram. Link here.

### 2. Additional Business Rules

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

### GROUP1763, 16/03/2018

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