

# A1: SegFault

This project intends to specify, develop and promote an information system with a web interface to manage a community of collaborative questions and answers for programmers.

Programmers worldwide scavenge the internet to indulge their learning needs. SegFault emerges as the solution, enabling easy knowledge exchange between developers.

The main goal of SegFault is to establish a platform for programmers to learn, discuss different approaches, present ideas and share knowledge in a Q&A style. It's also possible to associate brief comments to questions and answers. As your questions are answered, contributors and yourself can earn reputation points and badges (symbolizing your contributions to the community). A user's reputation is calculated by adding its questions' points, its answers' points, and half its comments' points. The user's reputation is further influenced by subtracting the number of the user's messages that were reported multiplied by 10.

There are two available badges: the **trustworthy** badge is awarded after you correctly answered 10 questions; and the **moderator** badge is awarded when your reputation points surpass 500, and were previously awarded the trustworthy badge. After being awarded the moderator badge you gain moderator privileges, which grant you owner-style permissions over low-scored messages (messages under 10 points). These owner-style permissions comprise editing or deleting messages, as well as changing a question's category and marking answers as correct.

All users can search and read questions, answers and comments. Visitors are able to register and/or login in order to become an authenticated user. In addition, authenticated users can submit questions, answers and comments. The platform will be based on a honor system, granting registered users the ability to up-vote or down-vote a question, answer or comment based on its usefulness to the discussion. Each user has an associated reputation that is calculated considering the votes on its questions, answers and comments. An authenticated user is considered owner of every message he publishes. After posting a question, an owner can mark an answer as correct, granting it higher visibility over the others. Additionally, owners can edit or delete their questions, answers or comments. An authenticated user can also star/favorite a question to get easier access to it.

SegFault will have a responsive interface, organized by categories, and featuring a search-bar, enabling users to easily search for previously answered questions. The platform must have low loading times and high reliability and availability. Additionally, the platform must protect the privacy and integrity of the client's data. Each user has a profile page, featuring a short biography, a picture, his rating and their messages. Users will also be notified as soon as a reply is made to their messages, by push-notifications on their browsers.

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## Revision history

- 15/02/2018: Added moderator, discriminated reputation points formula, and specified how to acquire badges.
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