

A3: User Interface Prototype

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, featuring storyboards for common uses of the site, and an overview of all interfaces.

1. Interface and common features

The user interface of the *SegFault* platform is a set of web pages made using the latest standards: HTML5, Javascript, CSS3. For faster development Bootstrap was used.

The platform is based on a responsive design, that is capable of being adapted to screens of different sizes and resolution without losing functionality.

The principal functionality of our platform are the questions of our users and the fast access to them. Because of that, our main page contain in their majority a preview of some questions of the users.

A navigation bar has been implemented that allows for various interactions with the user, depending on whether the user is authenticated or not;

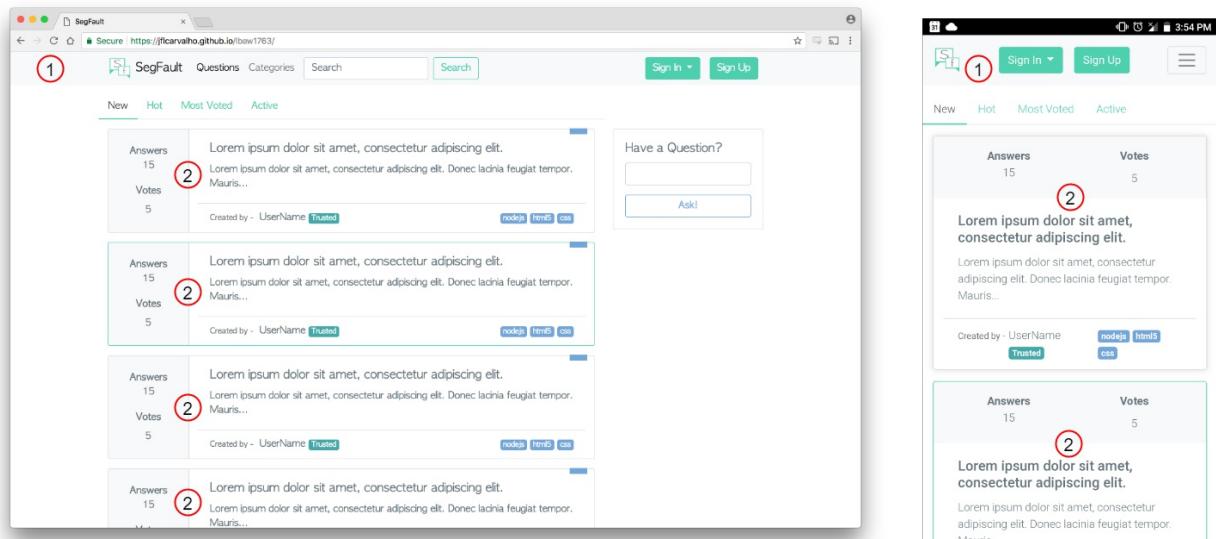


Figure 1.a: Main Interface.

1. NavBar;
2. Preview of Questions;

Besides that the answer to the question is very important, so in order to be easier to the user to see that, we develop for each question an individual page.

With more emphasis, in each question page the user can see the full description of the question and also some information about the author of the question and how many votes the question have.

Following the description it will appear all the answers to the question. If one answer was marked as correct it will appear first.

Each question our answer can be commented. All last tree can be voted in order to present first the better content and give reputation to the users. This privileges is just for the authenticated users.

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Figure 1.b: Question Interface.

1. NavBar;
2. Full description of the question;
3. Answers to the question;
4. Comments;

2. Sitemap

This sitemap presents the overall structure of the web application.

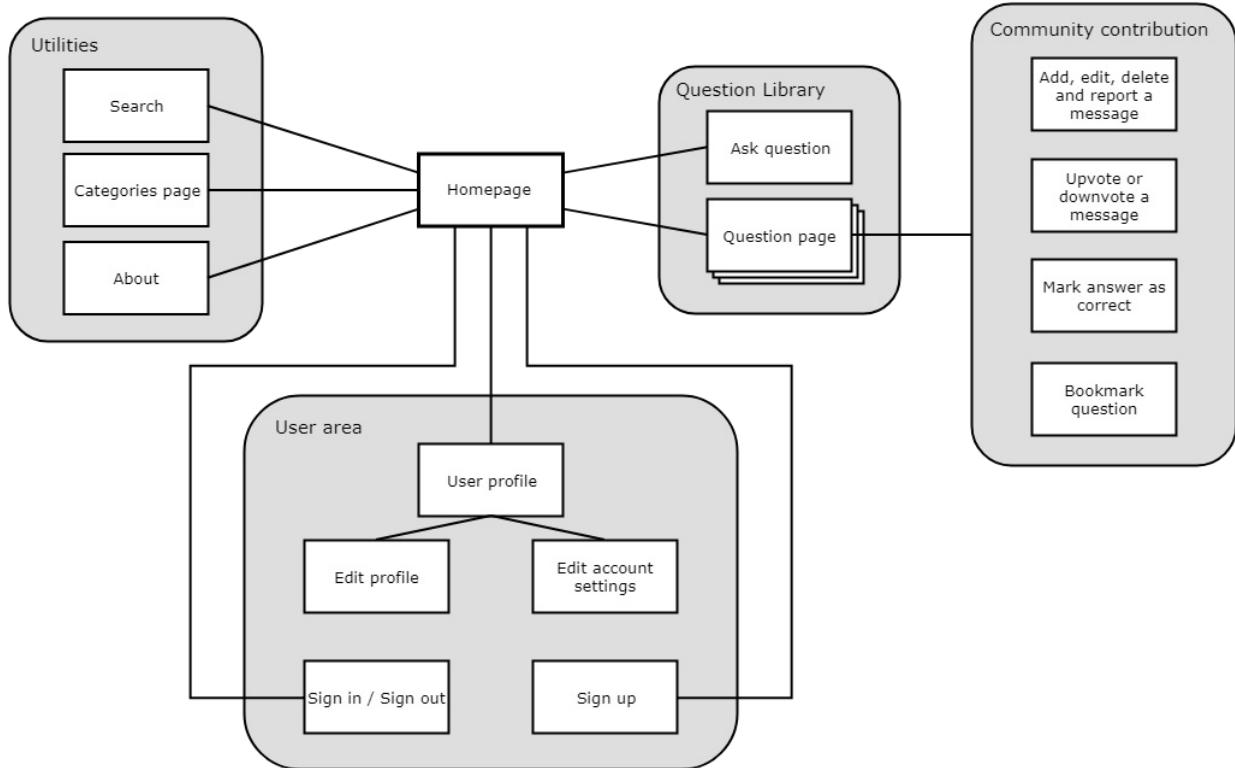


Figure 2.a: Sitemap.

3. Storyboards

This section displays step-by-step illustrations of the main use cases of the system.

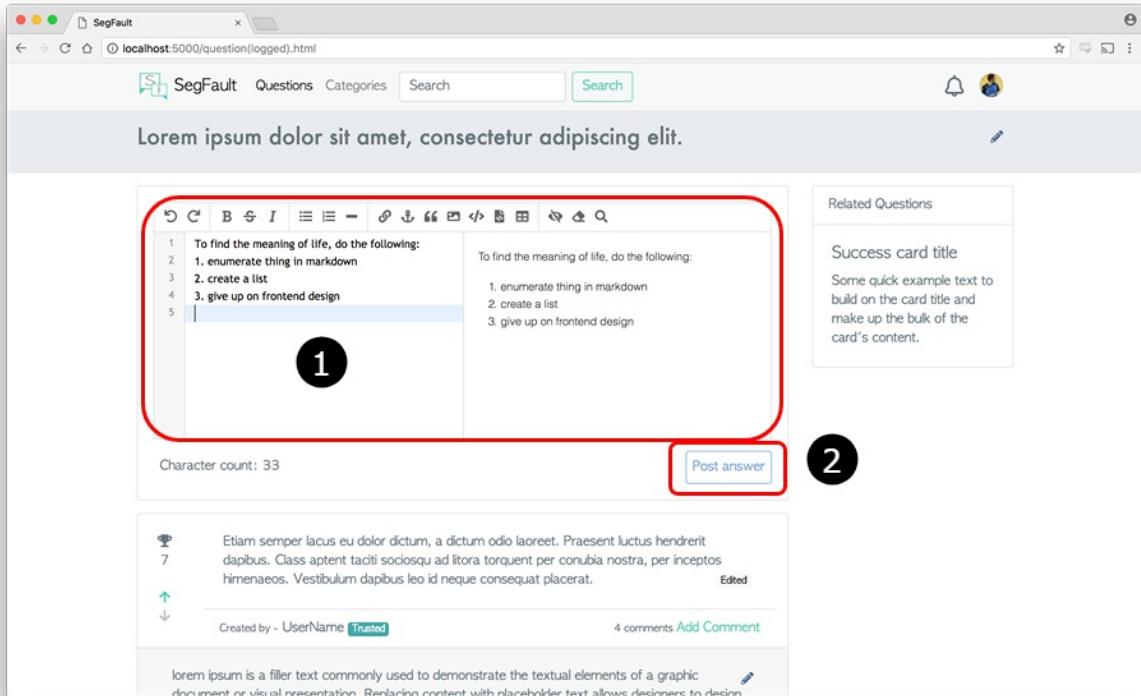


Figure 3.a: While logged in, to answer a question you must write your answer on the text area (1) and then submit your answer by clicking on the "Post answer" button (2).

The screenshot shows a list of answers to a question. The first answer is highlighted with a red box. The sidebar on the right contains a user profile for 'António Almeida' and a 'Have a Question?' section with two buttons.

User Profile:

- Profile picture: Circular image of a person.
- Name: António Almeida
- Status: Trusted
- Statistics: 200 points, 24 Questions, 24 Answers, 24 Comments

Have a Question?

- How can I ask a question? (Red box)
- Ask! (Red box)

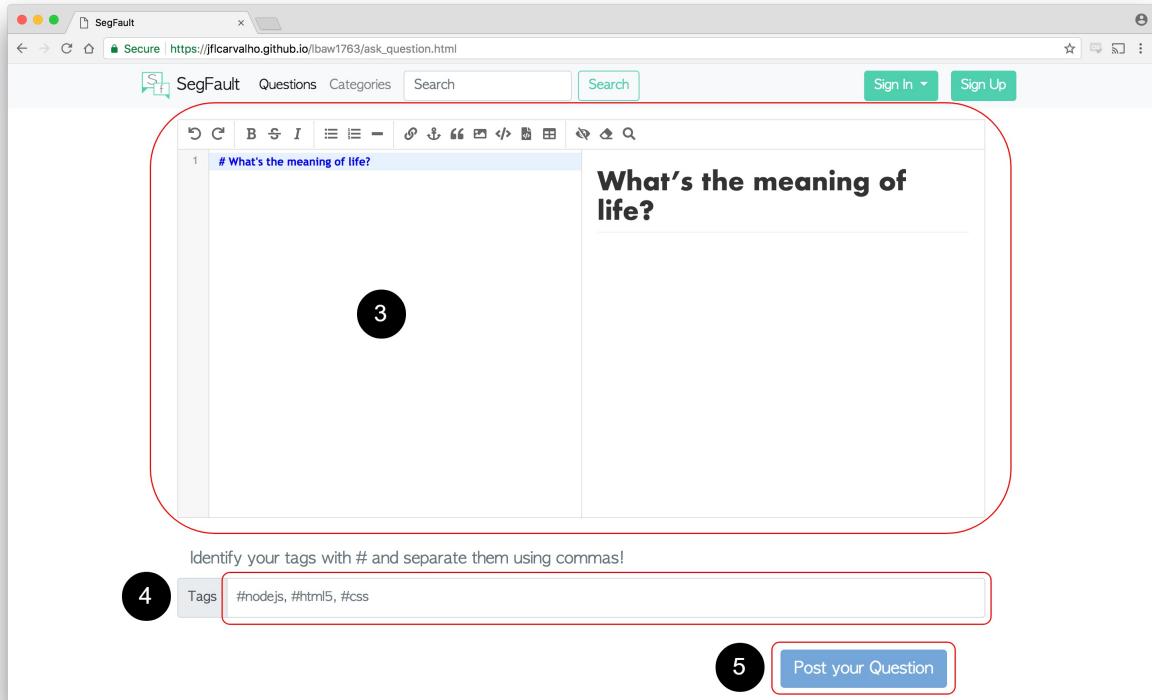


Figure 3.b: While logged in, to ask a question you must enter your question title (1) - which can later be modified -, click the "Ask!" button on (2) the landing page and you'll be redirected to the "ask question page". There you'll write your question on the text area (3), the related tags (4) and then submit it by clicking on the "Post your question" button (5).

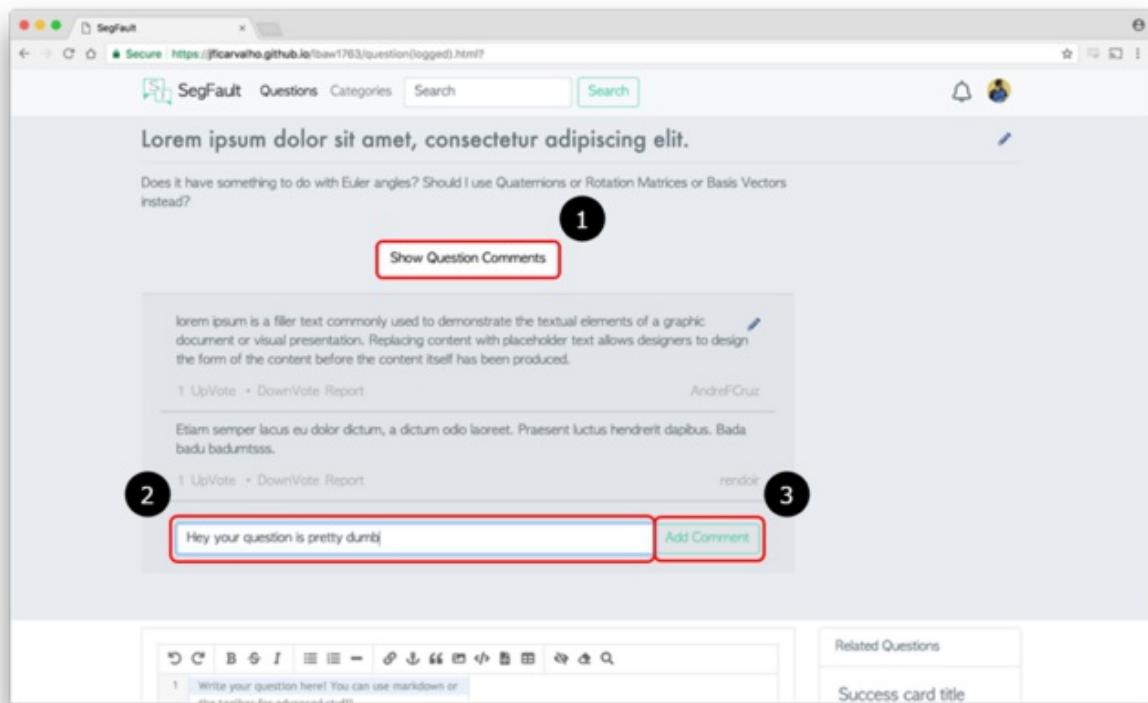


Figure 3.c: While logged in, to add a comment (to a question, for example) you should click the button that shows the comments to that message (1), then you'll be shown a text area where

you can write your comment (2) and finally you can submit it by clicking on the "Add comment" button (3).

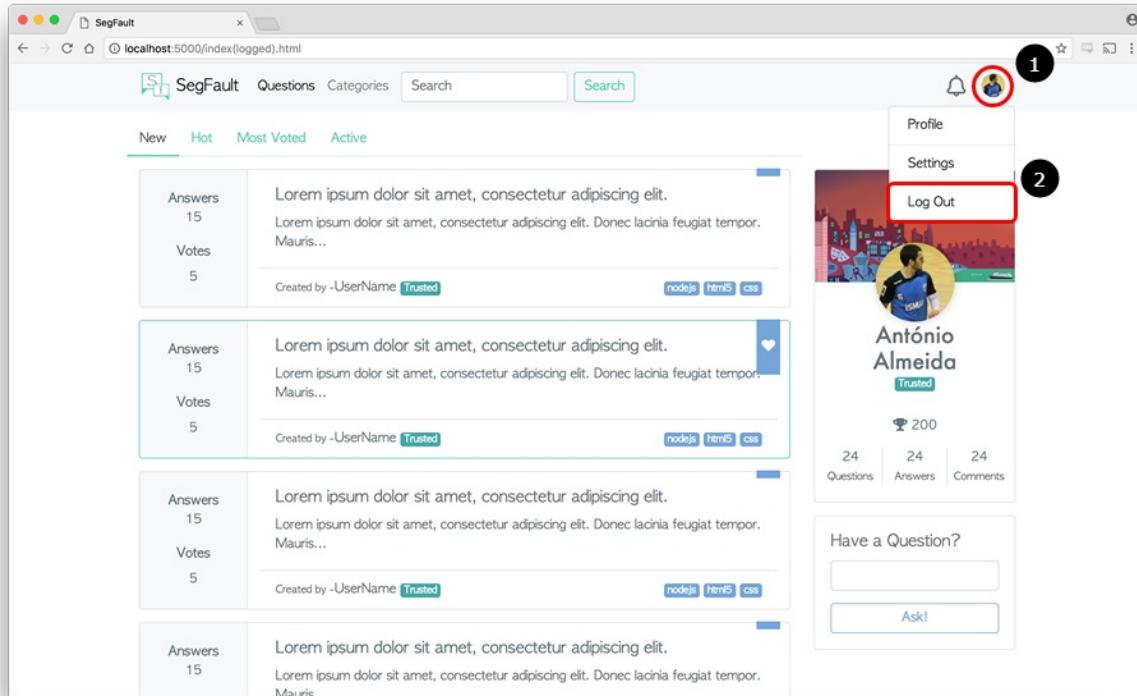


Figure 3.d: To log out you have to click on your profile thumbnail (1), then you'll be shown a dropdown where you'll have to click on the "Log out" option (2).

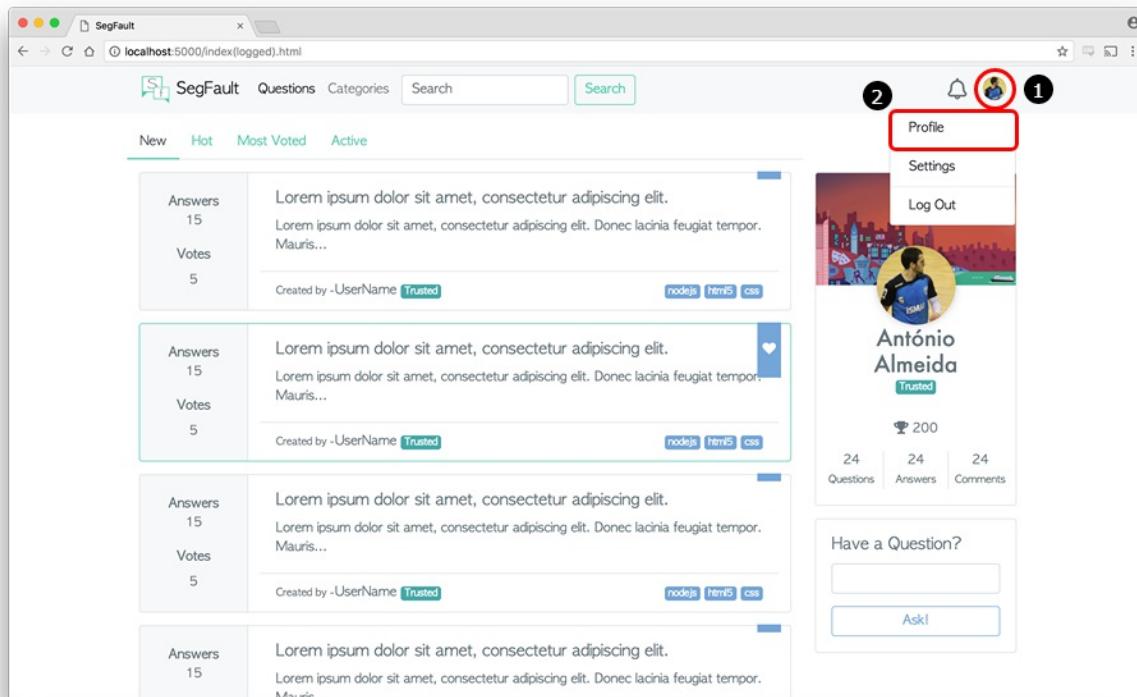


Figure 3.e: To check your profile click on your profile thumbnail (1), then you'll be shown a

dropdown where you'll have to click on the "Profile" option (2).

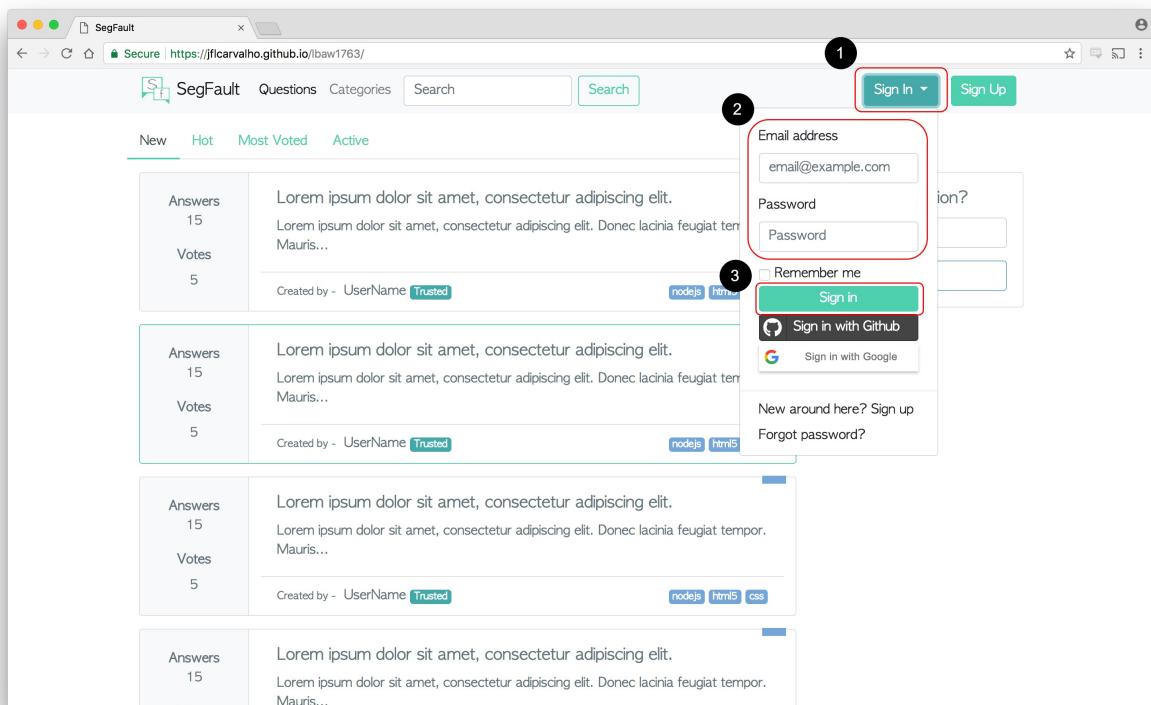
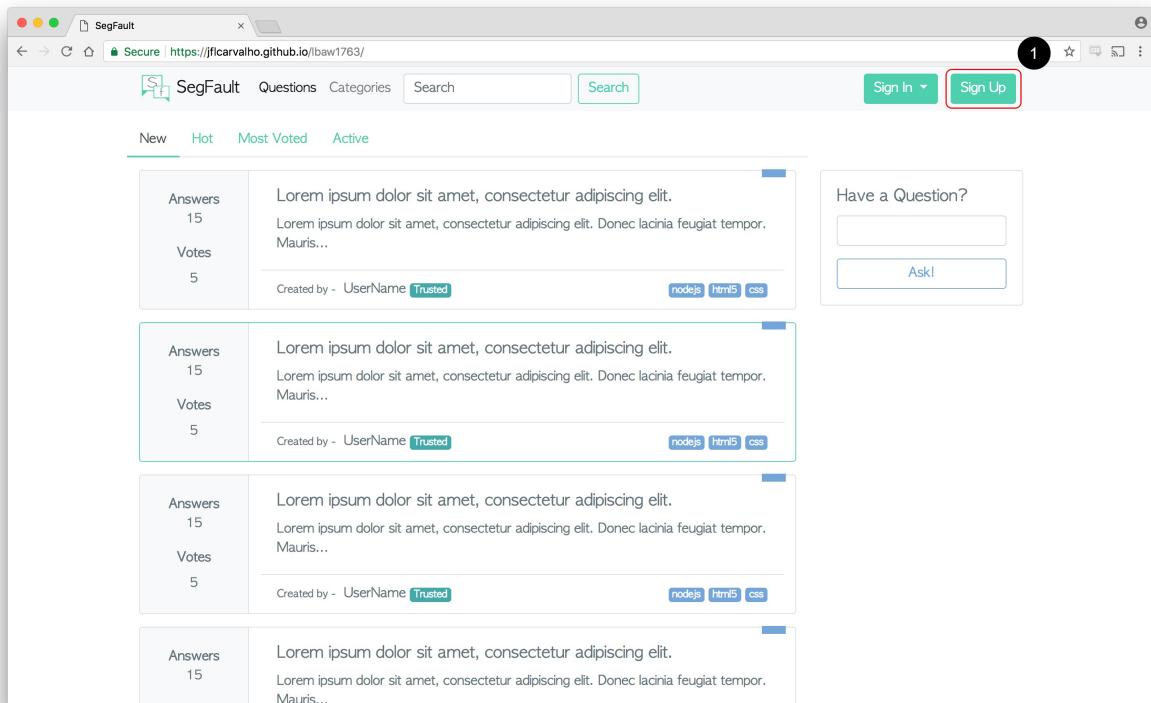


Figure 3.f: While visiting the website, to sign in you can click the "Sign in" button (1), then you'll be shown a dropdown where you'll have to fill your credentials (2) and finally enter them by clicking "Sign in" (3).



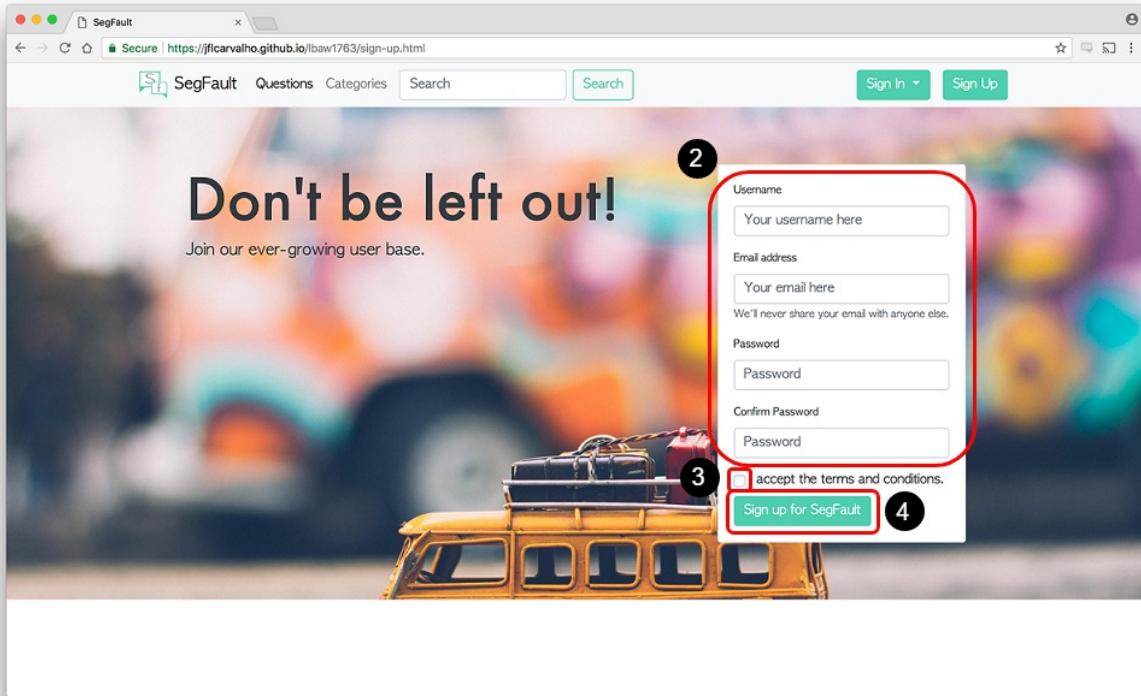


Figure 3.g: While visiting the website, to sign up you can click the "Sign up" button (1), which will redirect you to the "Sign up page" where you'll enter your personal credentials (2), accept our terms and conditions by checking the checkbox (3) and finally clicking "Sign up for SegFault" (4).

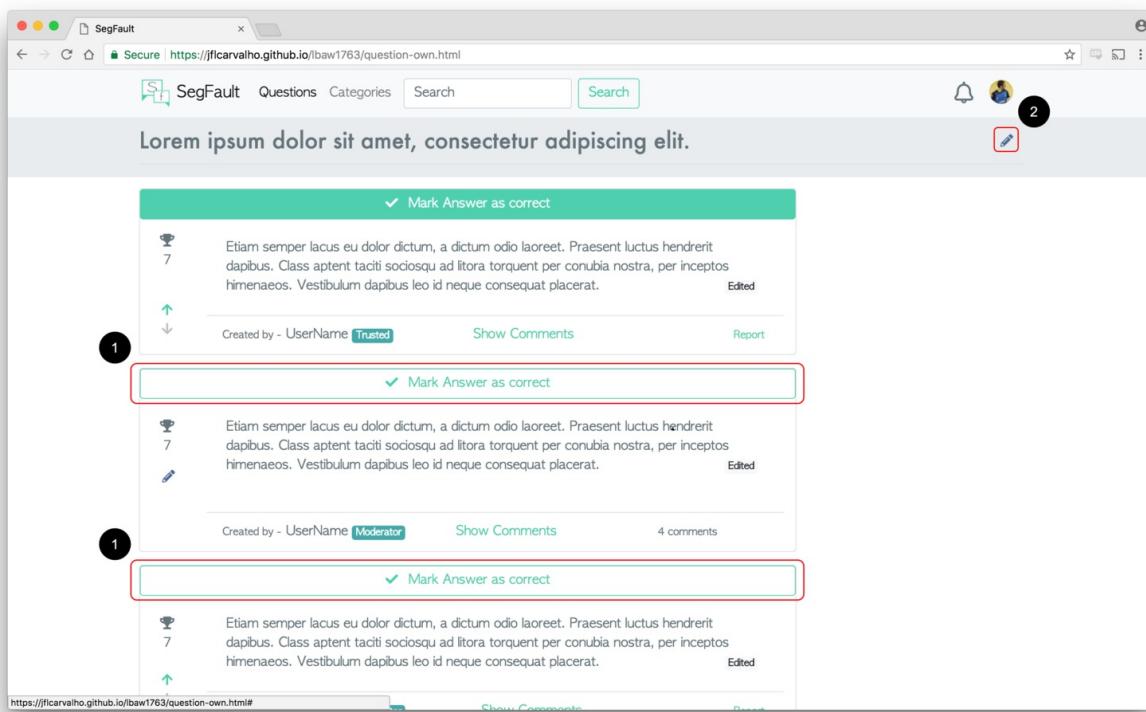


Figure 3.h: As an owner of a question you can mark an answer as correct (1) or edit any of your messages (2).

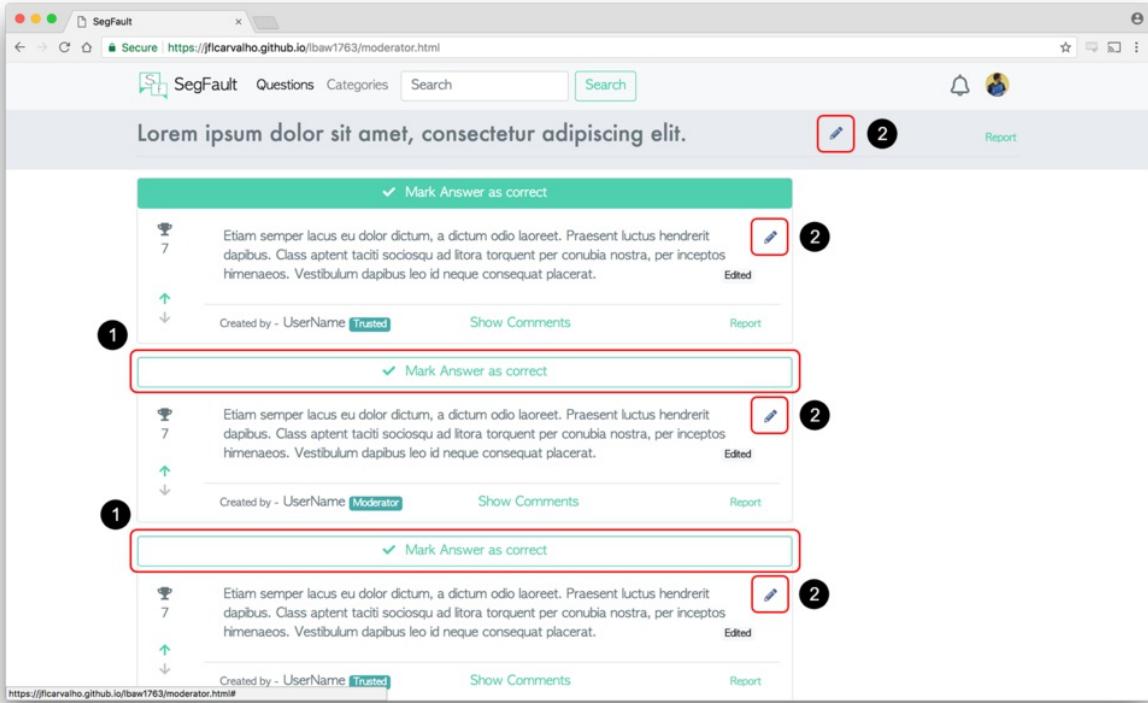


Figure 3.i: As a moderator you can mark an answer as correct (1) or edit any message (2). Moderator page [here](#).

4. Interfaces

The following interfaces describe the main content of the web pages and their relative priority and help the project team previewing the features and behaviour of the final product's different screens, both their desktop (left) and mobile (right) versions.

UI01: Home

On the [home page](#), the user can view several questions to his choosing, their title, score, number of answers, and a short introduction. The user can also bookmark a question for ease of access. As customary, the user can search for a specific question using the *nav-bar*.

Additionally, an authenticated user can ask a new question: after introducing the title and clicking the "Ask!" button the user is redirected to the [question editing page](#). If a visitor (non-authenticated user) clicks the "Ask!" button, a "Sign-In" prompt appears.

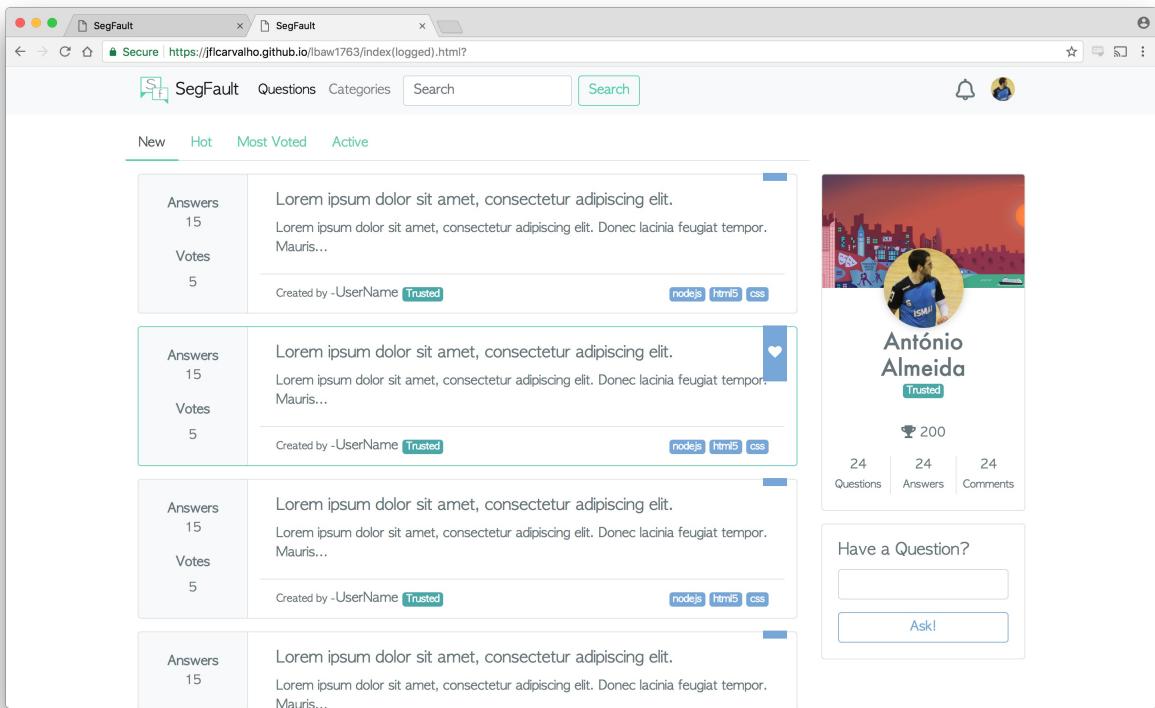


Figure 4.a: Home page.

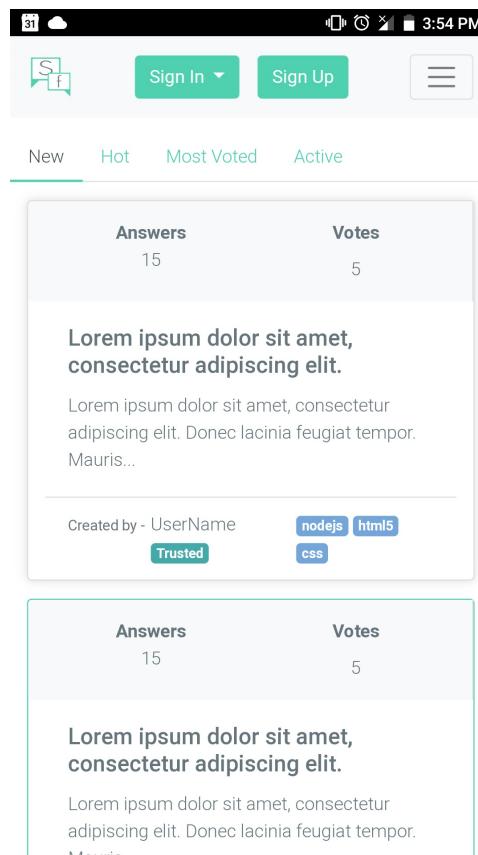


Figure 4.b: Home page, on mobile.

UI02: About

The [about page](#) informs the user of the purpose of the site, as well as the team behind it. Additionally, the user can navigate to the developers' *SegFault* profiles by clicking on them.

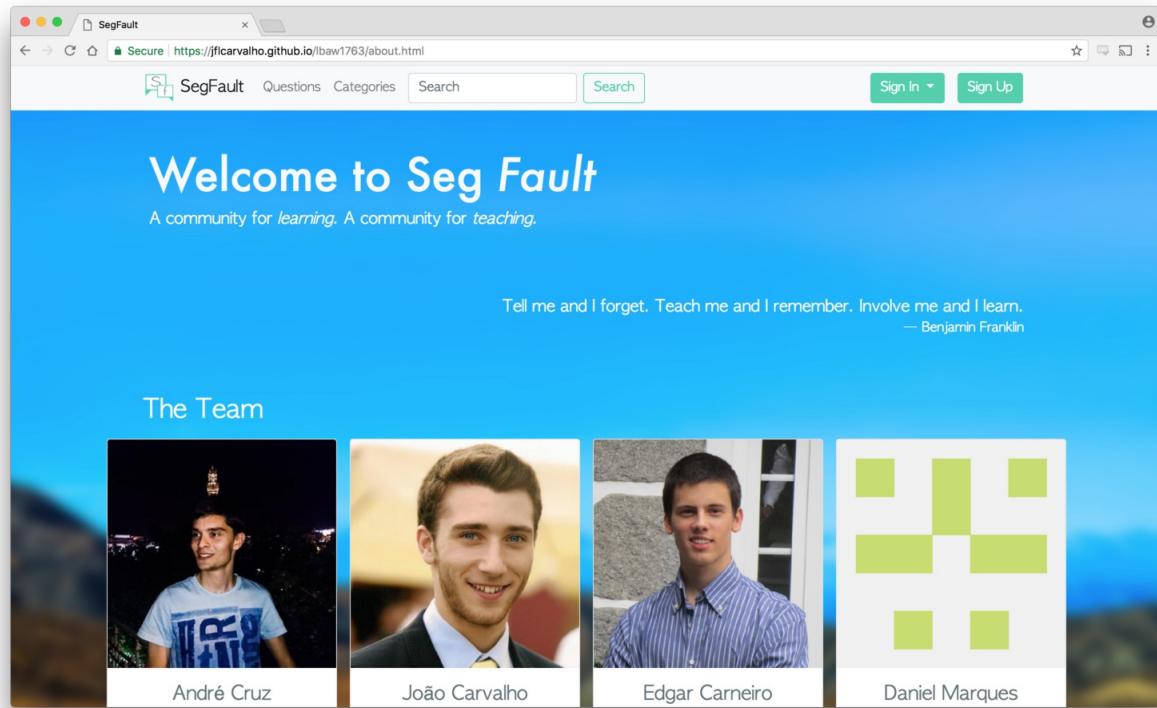


Figure 5.a: About page.



Figure 5.b: About page, on mobile.

UI03: Question

The question page allows a user to see the full description of a question, as well as its answers and comments. An authenticated user can vote on a question, answer or comment, or report any of these.

The screenshot shows a web browser window for the SegFault platform. The URL is [https://jflicarvalho.github.io/baw1763/question\(logged\).html](https://jflicarvalho.github.io/baw1763/question(logged).html). The main content area displays a question titled "Lorem ipsum dolor sit amet, consectetur adipiscing elit." followed by a code snippet:

```
1. void Update() {
2.     float speed = lookSpeed * Time.deltaTime;
3.
4.     // Yaw around the y axis using the player's horizontal input.
5.     transform.Rotate(0f, Input.GetAxis("Horizontal") * speed, 0f);
6.
7.     // Pitch around the x axis using the player's vertical input.
8.     transform.Rotate(-Input.GetAxis("Vertical") * speed, 0f, 0f);
9. }
```

Below the code, a note states: "Let's say we're making a first-person camera. The basic idea is it should yaw to look left & right, and pitch to look up & down. So we write a bit of code like this (using Unity as an example):". To the right, there are statistics: "Answers: 15" and "Votes: 5". Below the code, a note says: "And it mostly works, but over time the view starts to get crooked. The camera seems to be turning on its roll axis (z) even though we only told it to rotate on the x and y!". There is a small screenshot of a Unity game scene showing a character in a grassy field. On the right side, there is a sidebar with "Related Questions" and some sample cards: "Success card title" and "Some quick example text to".

Figure 6.a: Question page.

This screenshot shows the same SegFault question page as above, but with more detailed comments. The main content area includes the original question and code, followed by a note: "Etiam semper lacus eu dolor dictum, a dictum odio laoreet. Praesent luctus hendrerit dapibus. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Vestibulum dapibus leo id neque consequat placerat." Below this is a "Created by - UserName Trusted" section and a "4 comments Add Comment" link. The comments section contains several entries:

- A comment from "AndreFCruz" with 1 UpVote / DownVote Report.
- A comment from "jflicarvalho" with 1 UpVote / DownVote Report.
- A sample comment: "This is a sample comment!! *Insert meme here*".
- A comment from "EdgarACarneiro" with 1 UpVote / DownVote Report.
- A final comment from "rendoir" with 1 UpVote / DownVote Report.

The right sidebar remains the same as in Figure 6.a.

Figure 6.b: Question page, scrolled down.

Figure 6.c: Question page, on mobile.

Figure 6.d: Question page, on mobile, scrolled down.

In addition, the owner of a question can accept an answer as correct, edit the question's

description and categories, and/or delete it (owner view seen in Figure 6.e).

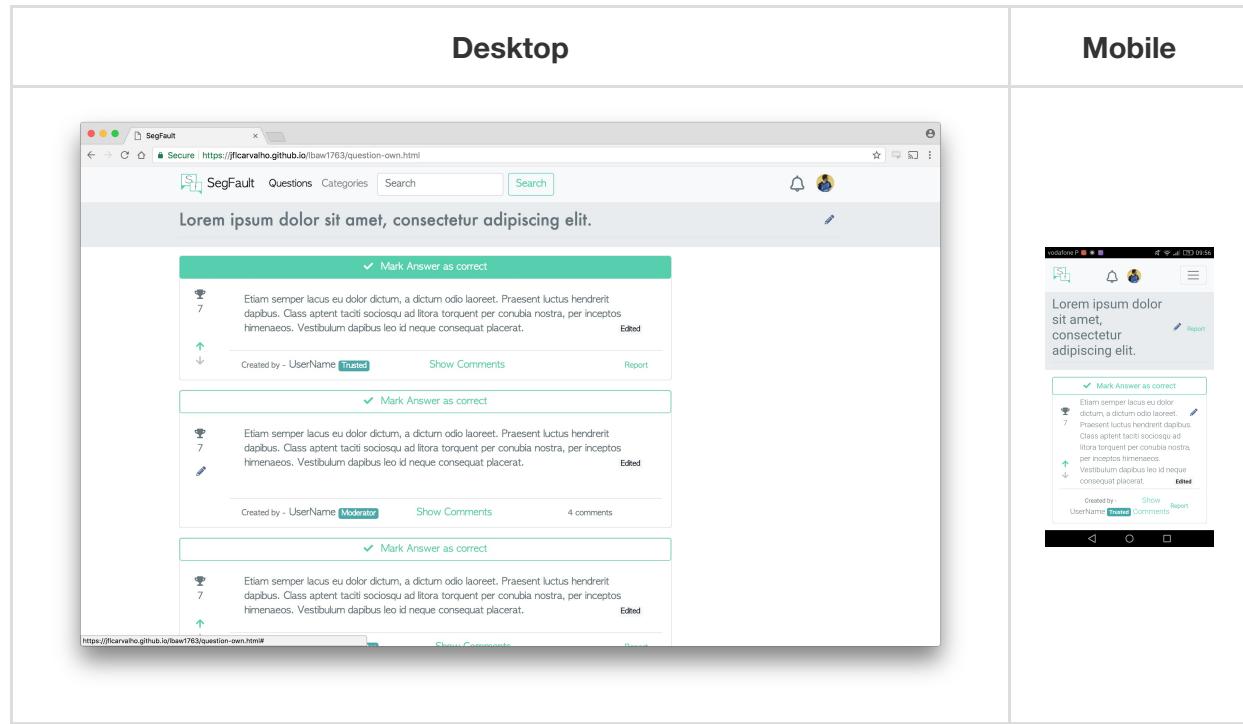


Figure 6.e: Question page, owner view.

UI04: Ask a Question

This page allows an authenticated user to ask a question. The description can be designed with markdown, and features code syntax highlighting. The user can also add tags to a question.

Note that the title may already be filled in if the user was redirected from the main page's "Ask!" button.

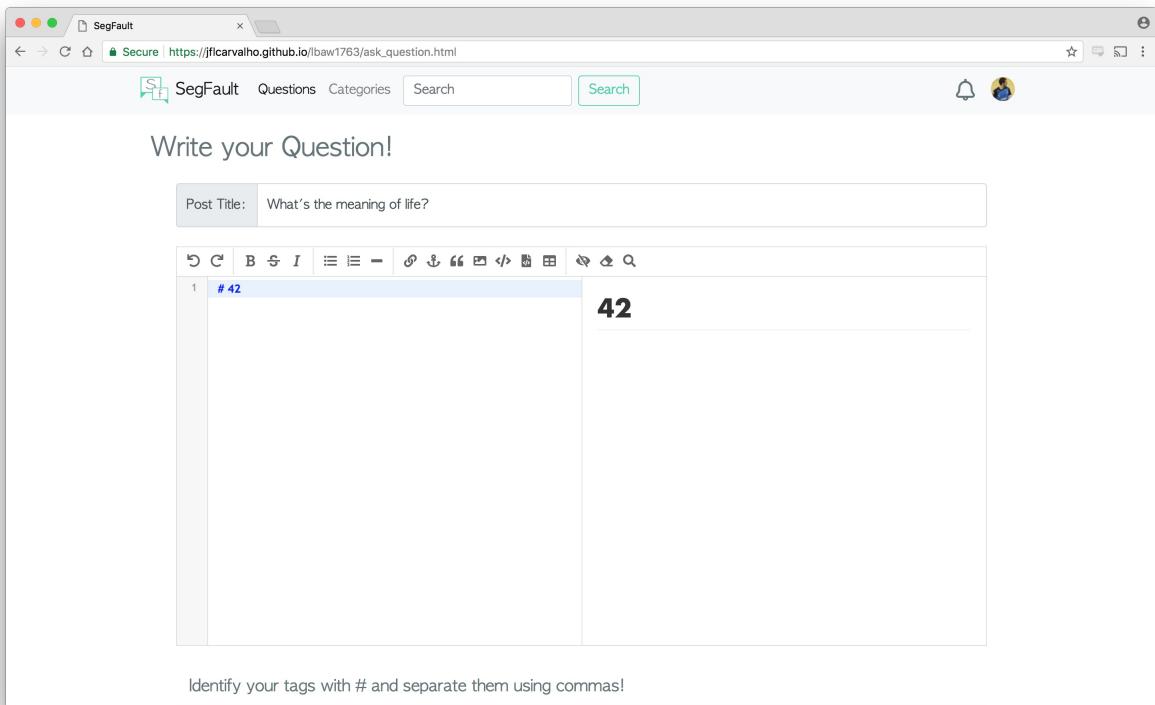


Figure 7.a: Ask question page.

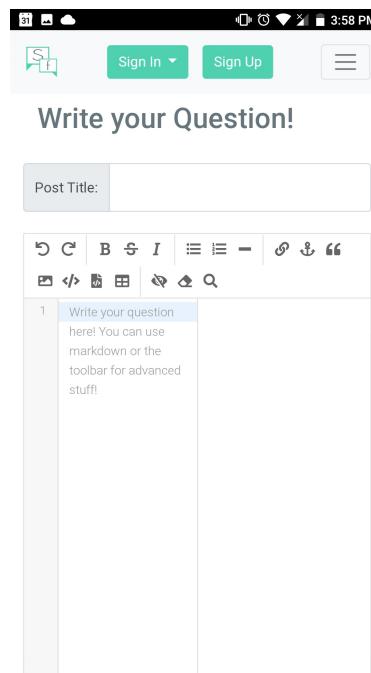


Figure 7.b: Ask/Edit question page, on mobile.

UI05: Profile

A user's [profile page](#) features its contributions to the *SegFault* community, from comments, answers and questions posted, to its overall reputation and badges earned. The owner of a profile can change its profile picture and the short *bio*.

A screenshot of a web browser displaying a user profile page. The page has a header with the SegFault logo, navigation links for 'Questions' and 'Categories', a search bar, and a user icon. Below the header is a large image of a city skyline at sunset. In the center of the skyline is a circular profile picture of a man with dark hair, wearing a blue sports jersey with the number 6 and the name 'ISMAI' on it. Below the profile picture is the user's name, 'António Almeida'. Underneath the name is a block of placeholder text: 'Morbi mollis, eros eget sodales tempor, augue mi aliquet nisi, tempor placerat augue arcu sed odio. Aliquam orci urna, porta vel quam quis, aliquam faucibus ante. Curabitur eleifend ut orci sit amet blandit. Curabitur placerat ante tortor, ac volutpat nulla tempus vitae. Donec scelerisque ipsum eu tempus congue. Vestibulum varius est sapien, in gravida tortor euismod eget.' To the right of the profile picture is a 'Control Panel' sidebar with sections for 'Trusted' and 'Moderator' status, 'Reputation Points' (200), and activity statistics: 'Questions: 24', 'Answers: 24', and 'Comments: 24'. There are also 'Edit Profile' and 'Settings' buttons.

Figure 8.a: A user's own profile page.

A screenshot of the same user profile page as in Figure 8.a, but with the content area scrolled down. The top portion of the page is identical to Figure 8.a. Below the profile picture, the user's name 'António Almeida' is no longer visible. Instead, there is a section titled 'My Activity' with four items, each containing placeholder text: 'Lorem ipsum dolor sit amet, consectetur adipiscing elit. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec lacinia feugiat tempor. Mauris...', 'Lorem ipsum dolor sit amet, consectetur adipiscing elit. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec lacinia feugiat tempor. Mauris...', 'Lorem ipsum dolor sit amet, consectetur adipiscing elit. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec lacinia feugiat tempor. Mauris...', and another identical item. The 'Control Panel' sidebar remains the same as in Figure 8.a.

Figure 8.b: A user's own profile page, scrolled down.

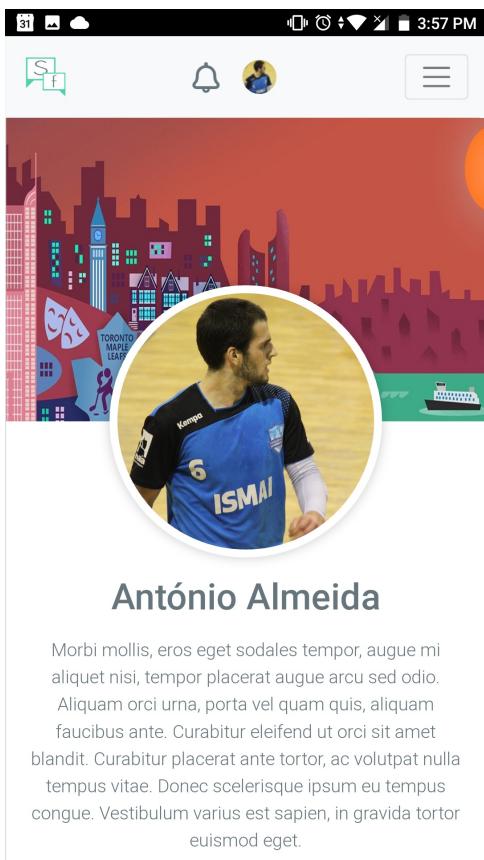


Figure 8.c: Profile page, on mobile.

A screenshot of the same mobile application interface, but the content has been scrolled down. The header and profile picture are visible at the top. Below the profile, the section title 'My Activity' is shown. Underneath 'My Activity' are three tabs: 'Questions' (underlined), 'Answers', and 'Comments'. Below these tabs is a section titled 'Marked Questions' with two items. Each item contains a summary of text followed by a truncated version. The first item's summary is 'Lorem ipsum dolor sit amet, consectetur adipiscing elit.' and its truncated version is 'Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec lacinia feugiat tempor. Mauris...'. The second item's summary is identical, and its truncated version is also identical.

Figure 8.d: Profile page, on mobile, scrolled down.

UI06: Sign Up

The [sign up page](#) allows users to register on *SegFault*.

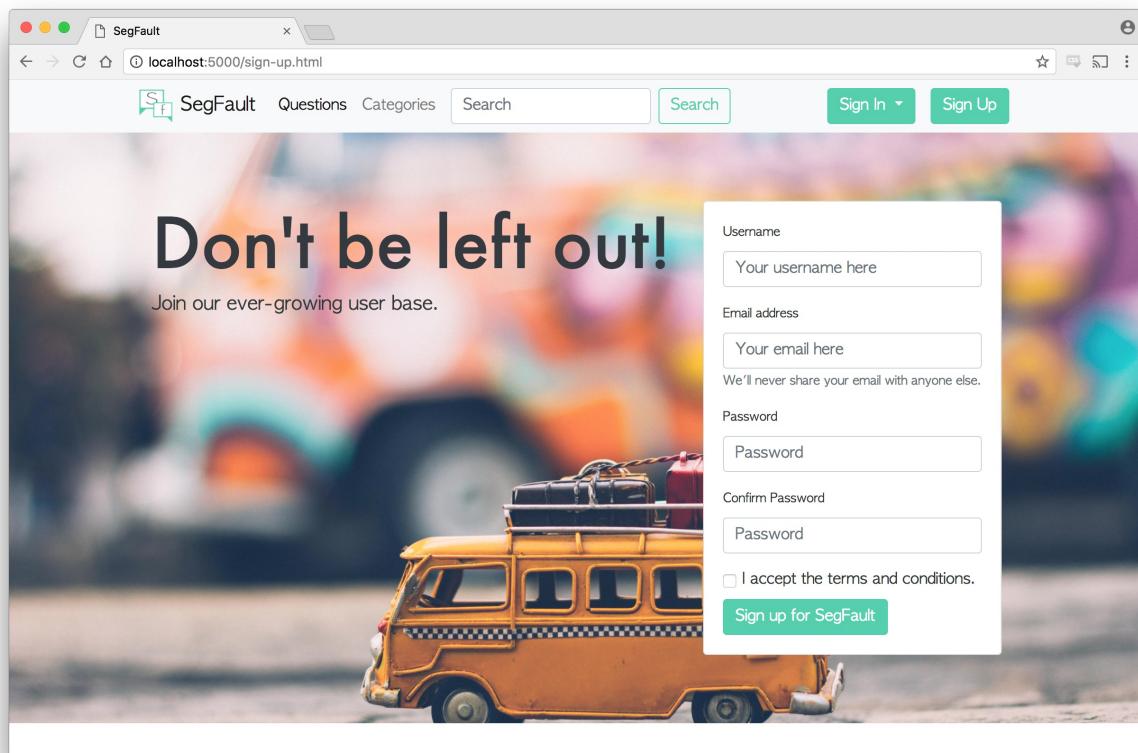


Figure 9.a: [Sign Up page](#).

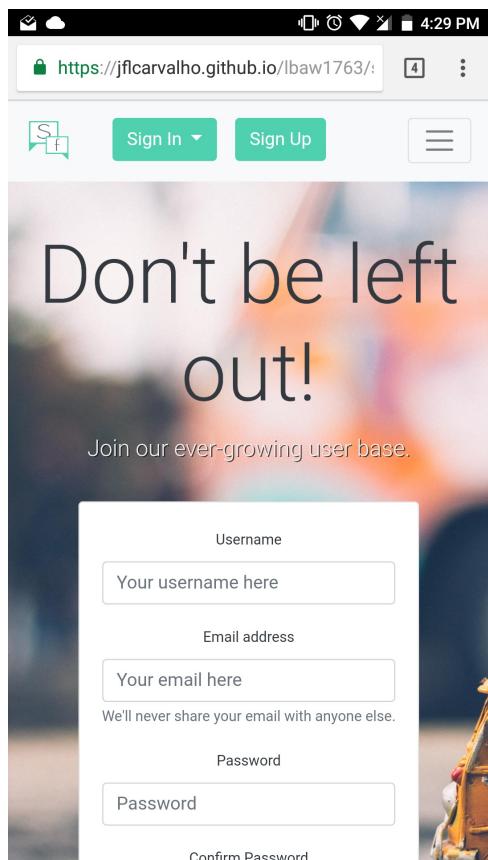


Figure 9.b: Sign Up page, on mobile.

UI08: Error

The [error page](#) informs the user that the server has *segfaulted*, and thus cannot visit the page he was looking for.

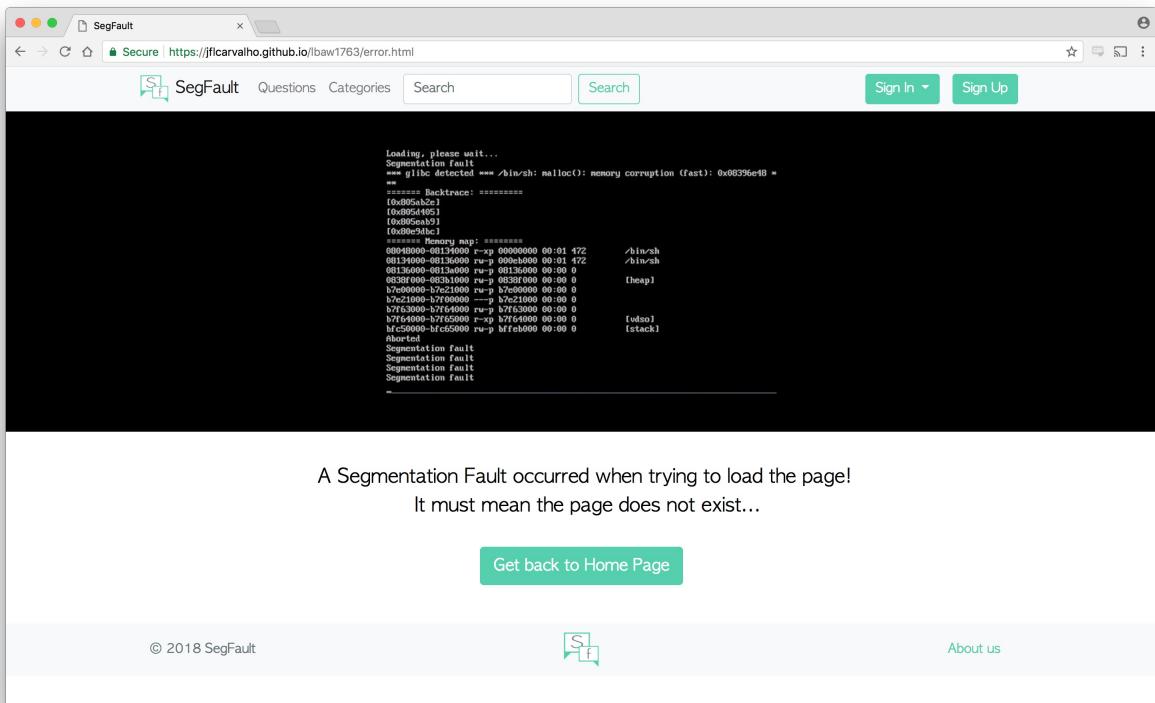
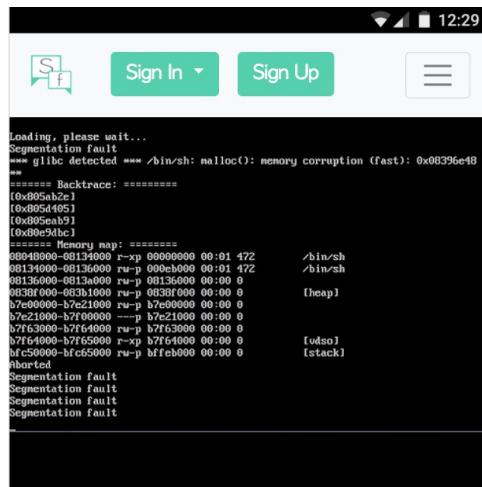


Figure 10.a: Error page.



A Segmentation Fault occurred
when trying to load the page!
It must mean the page does not
exist...

[Get back to Home Page](#)

Figure 10.b: Error page, on mobile.

Revision history

GROUP1763, 06/03/2018

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