

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

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;

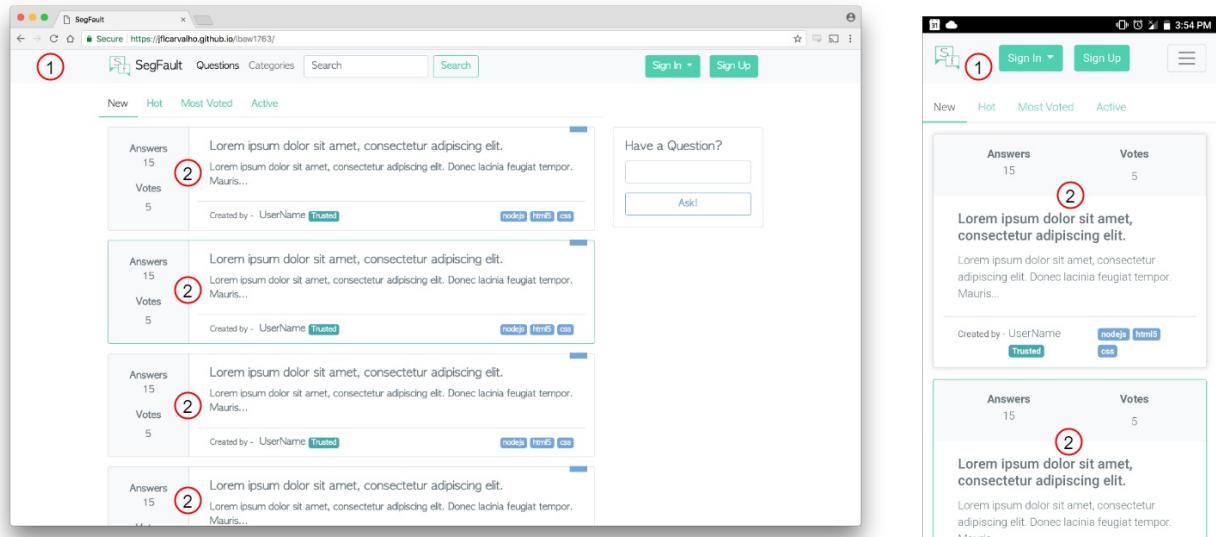


Figure 1.a: Main Interface.

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.

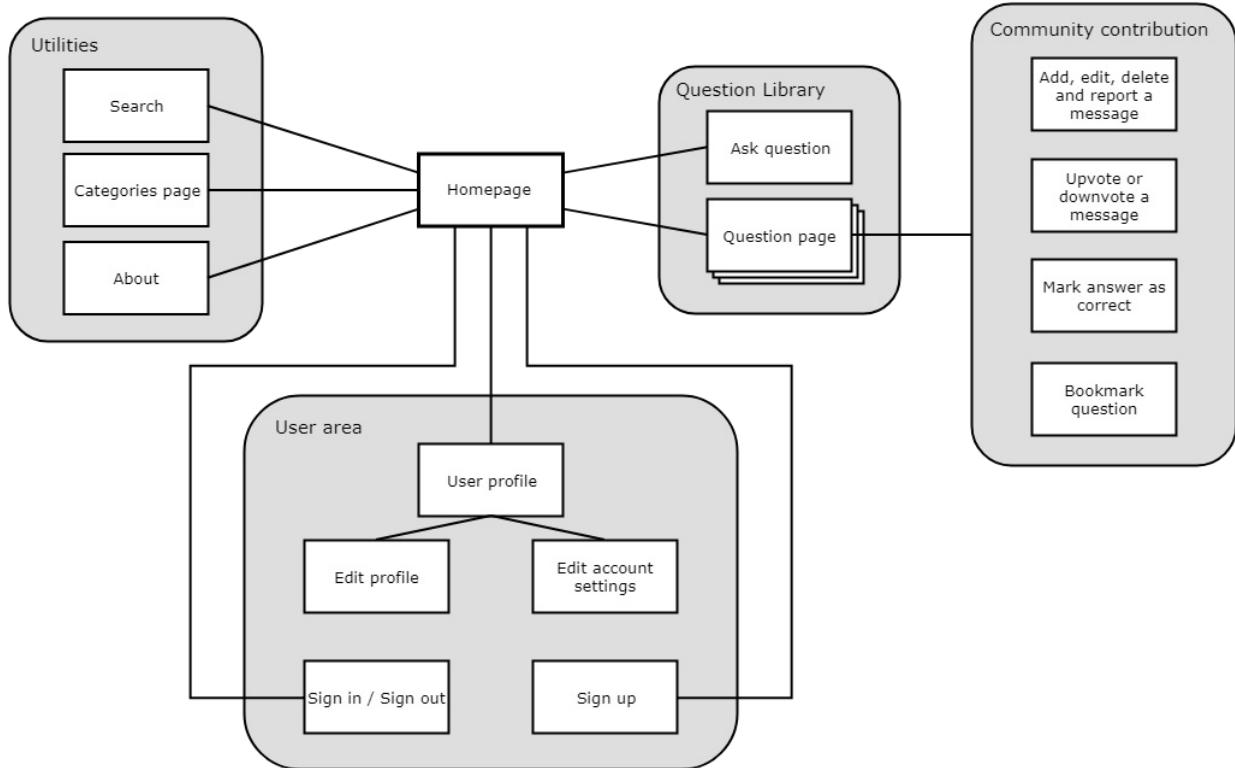


Figure 2.a: Sitemap.

3. Storyboards

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

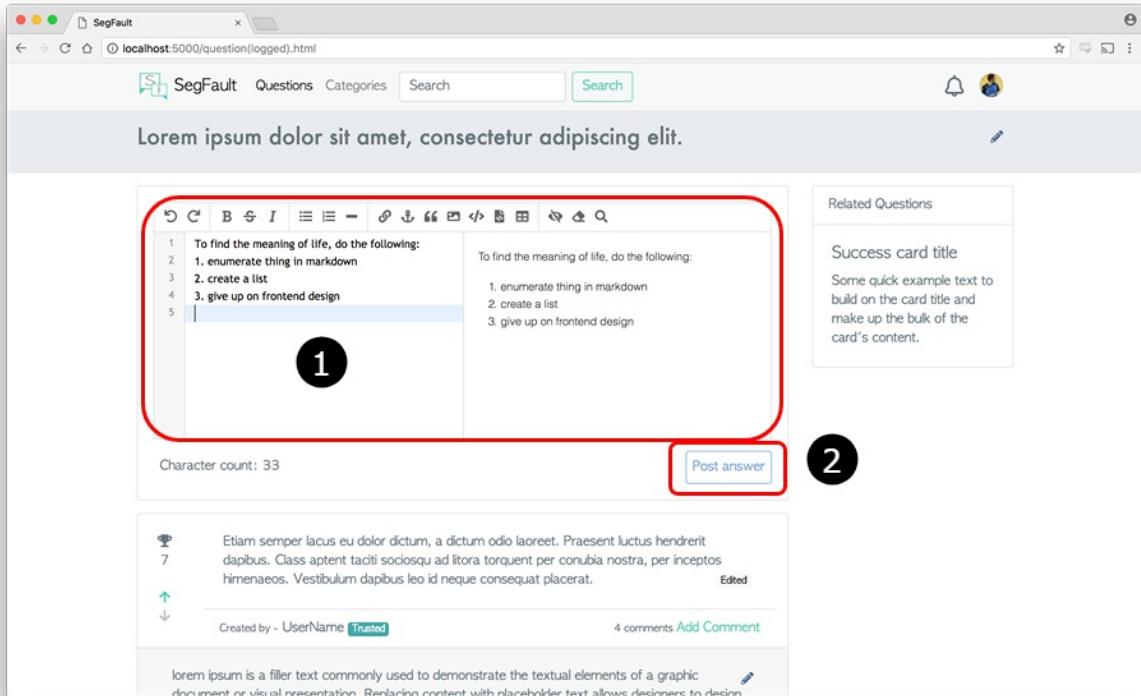


Figure 3.a: While logged in, to answer a question you must write your answer on the text area (1) and then submit your answer by clicking on the "Post answer" button (2).

The screenshot shows a list of answers to a question. The first answer is highlighted with a red border. 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 circle 1)
- Ask! (Red circle 2)

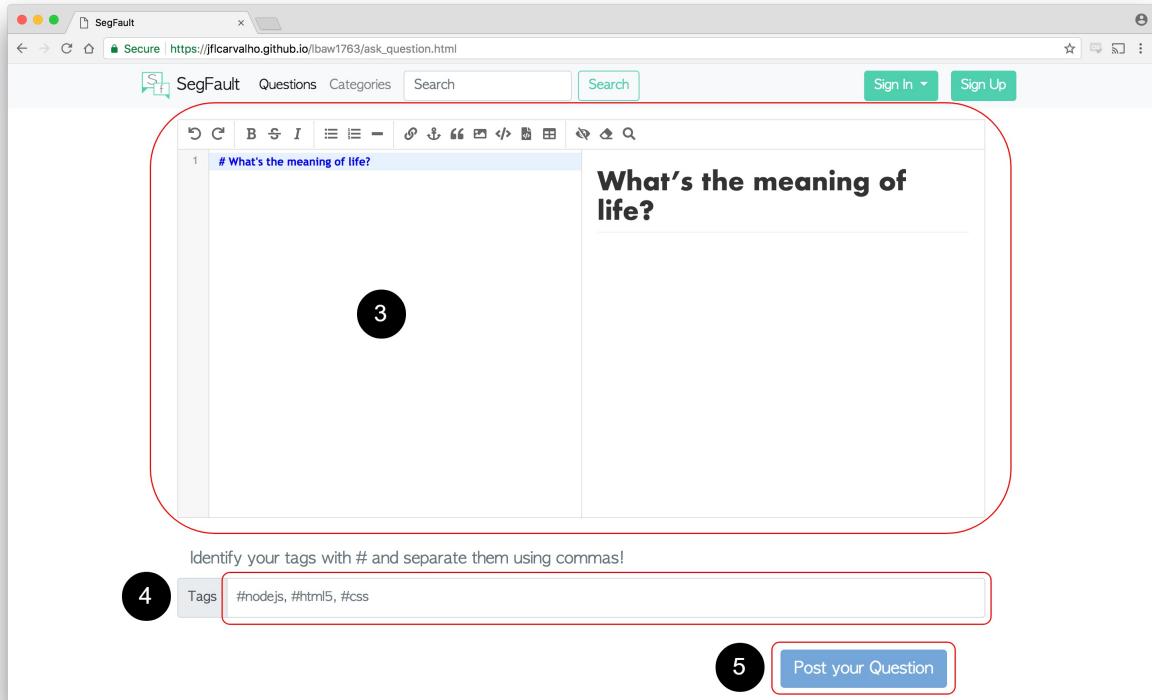


Figure 3.b: While logged in, to ask a question you must enter your question title (1) - which can later be modified -, click the "Ask!" button on (2) the landing page and you'll be redirected to the "ask question page". There you'll write your question on the text area (3), the related tags (4) and then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

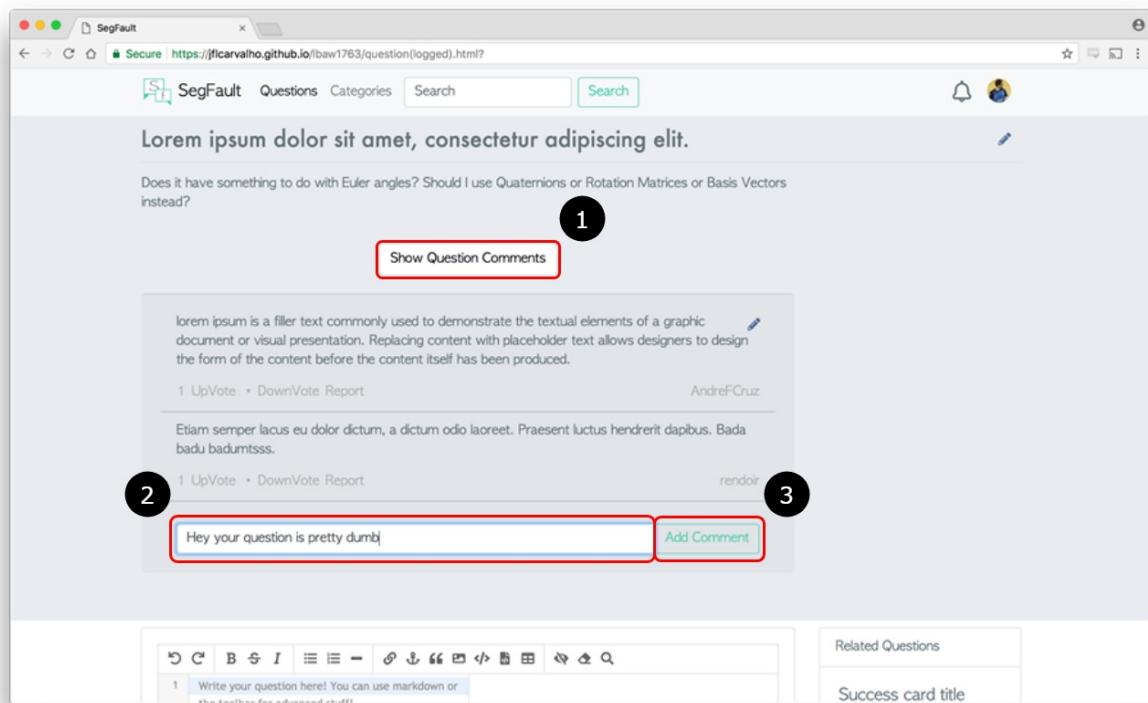


Figure 3.c: While logged in, to add a comment (to a question, for example) you should click the button that shows the comments to that message (1), then you'll be shown a text area where

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

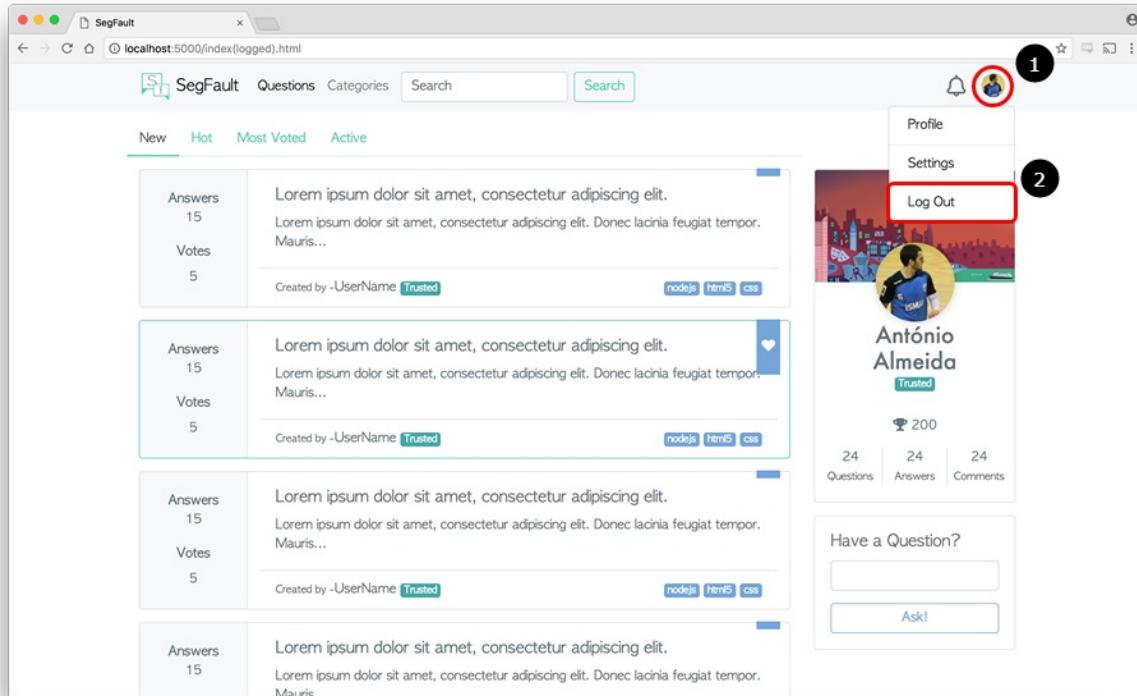


Figure 3.d: To log out you have to click on your profile thumbnail (1), then you'll be shown a dropdown where you'll have to click on the "Log out" option (2).

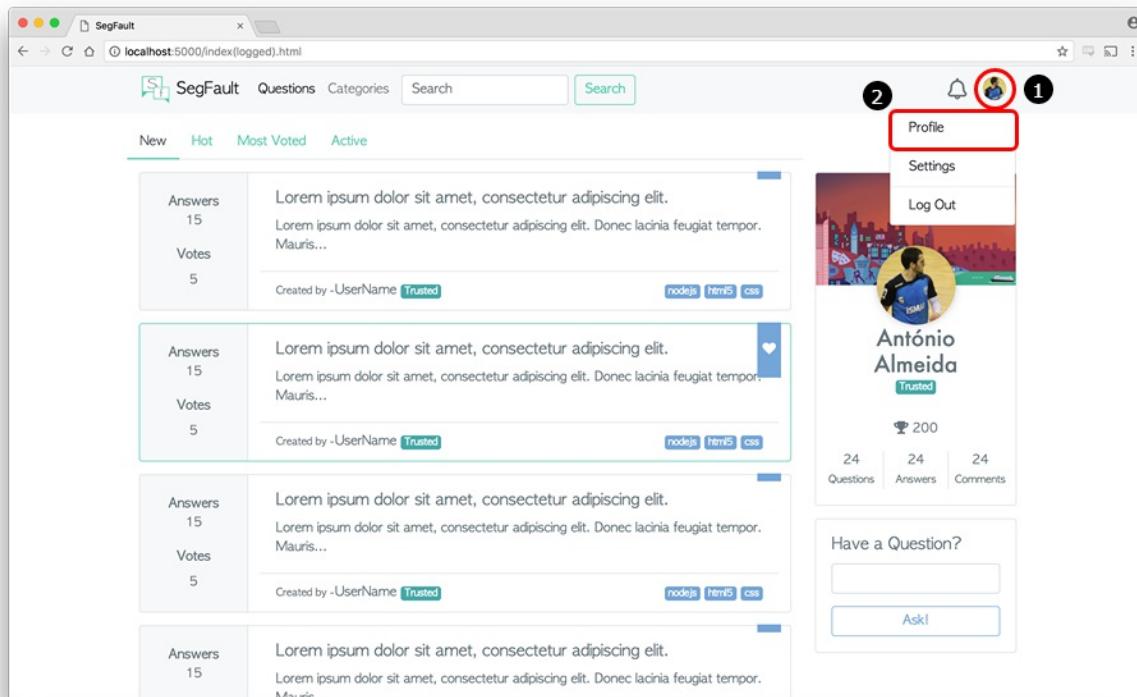


Figure 3.e: To check your profile click on your profile thumbnail (1), then you'll be shown a

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

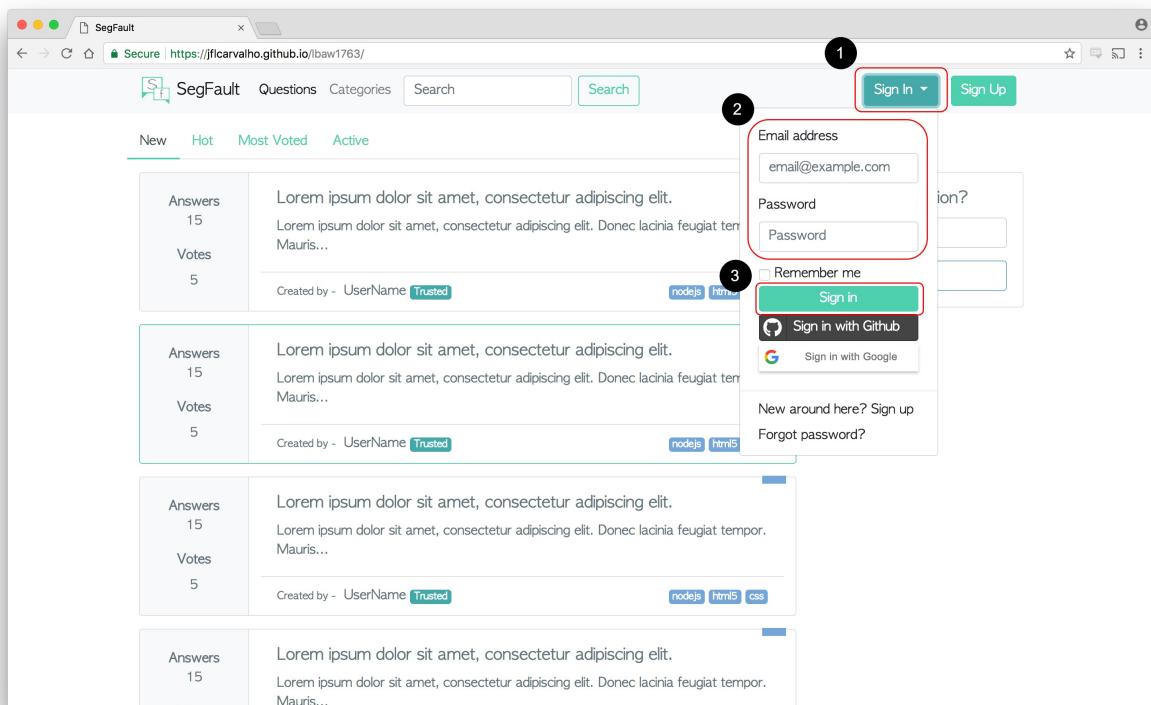
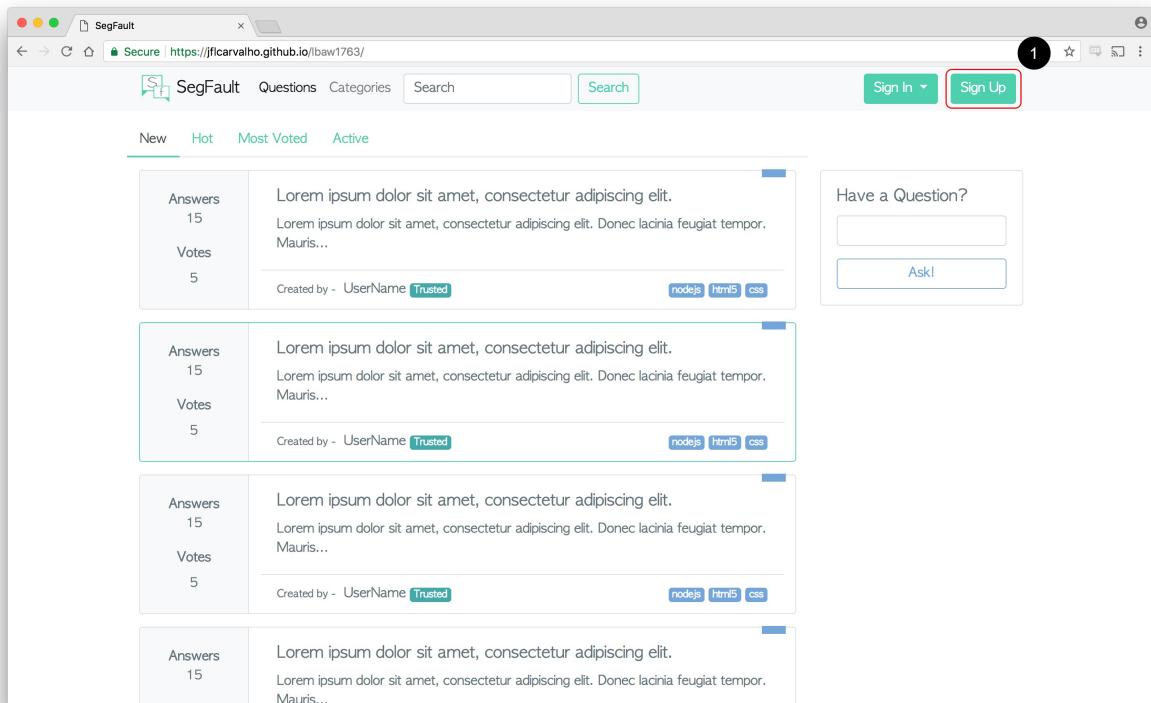


Figure 3.f: While visiting the website, to sign in you can click the "Sign in" button (1), then you'll be shown a dropdown where you'll have to fill your credentials (2) and finally enter them by clicking "Sign in" (3).



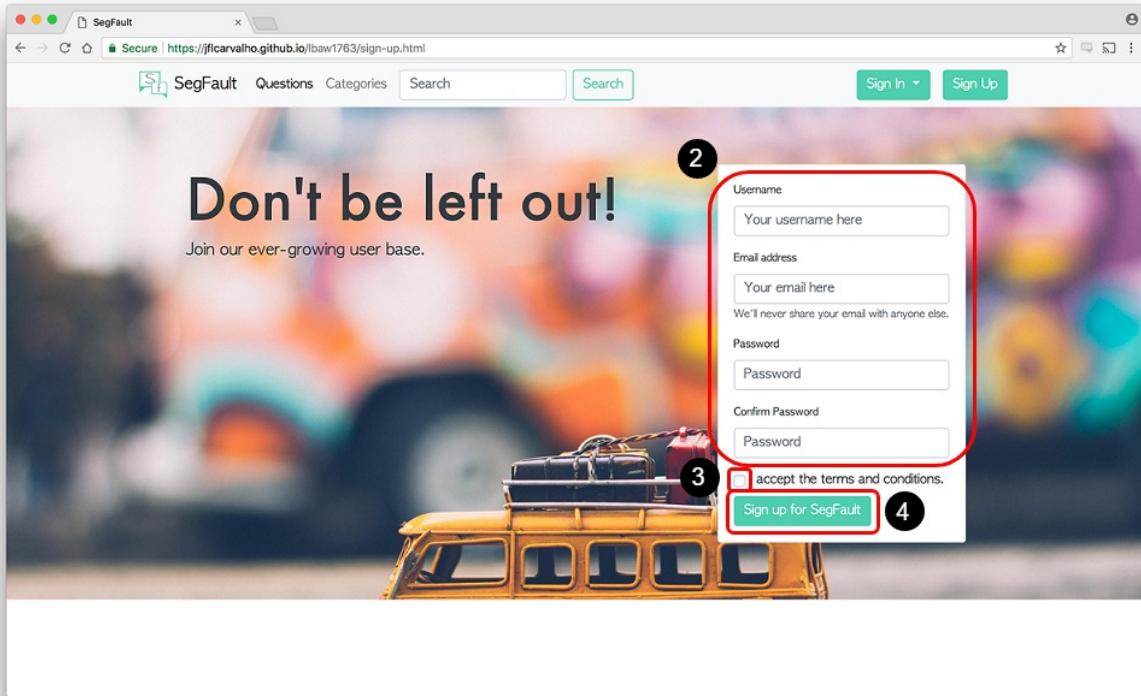


Figure 3.g: While visiting the website, to sign up you can click the "Sign up" button (1), which will redirect you to the "Sign up page" where you'll enter your personal credentials (2), accept our terms and conditions by checking the checkbox (3) and finally clicking "Sign up for SegFault" (4).

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.

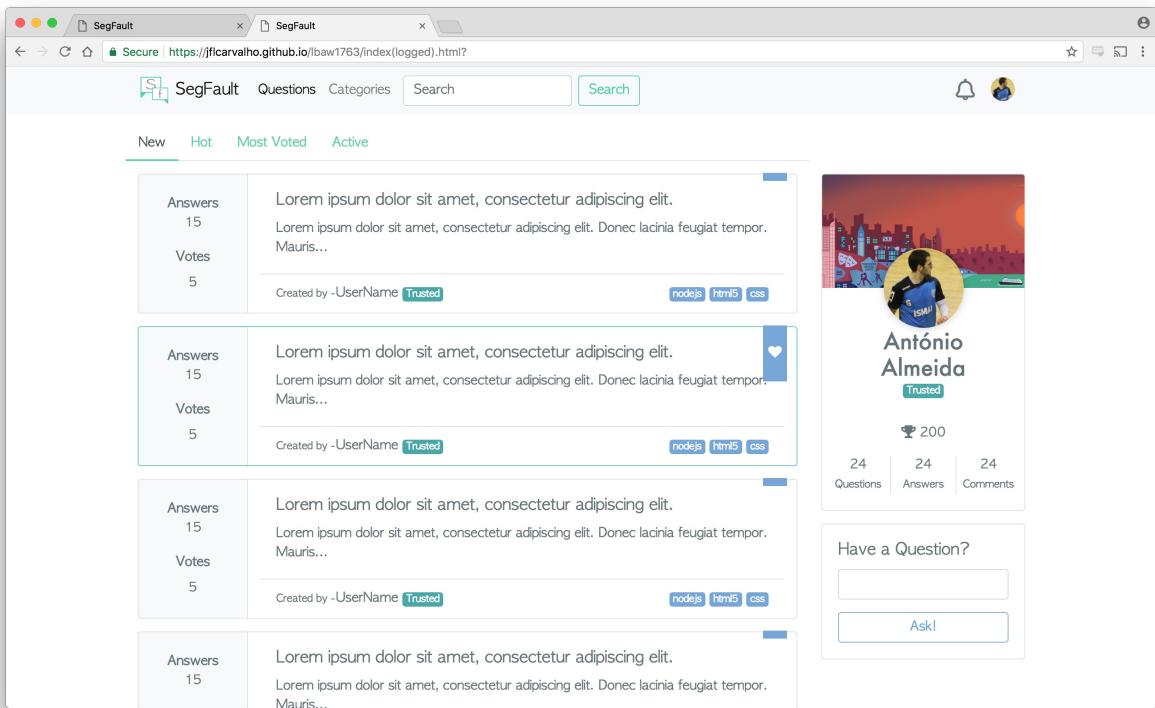


Figure 4.a: Home page.

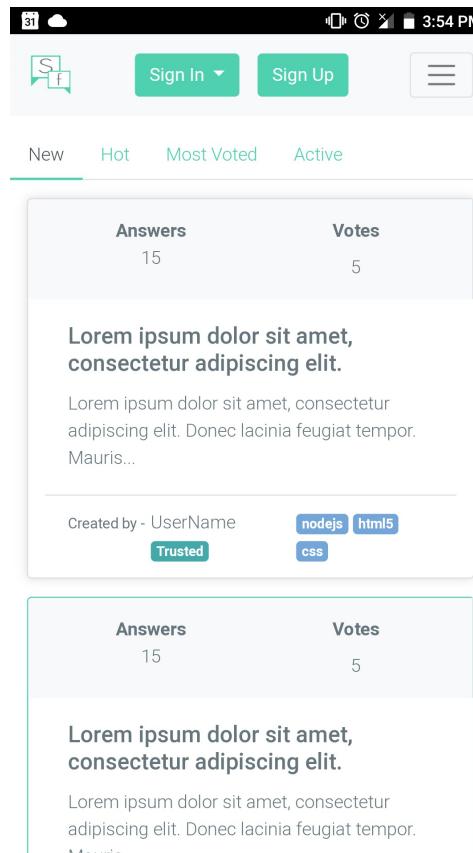


Figure 4.b: Home page, on mobile.

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.

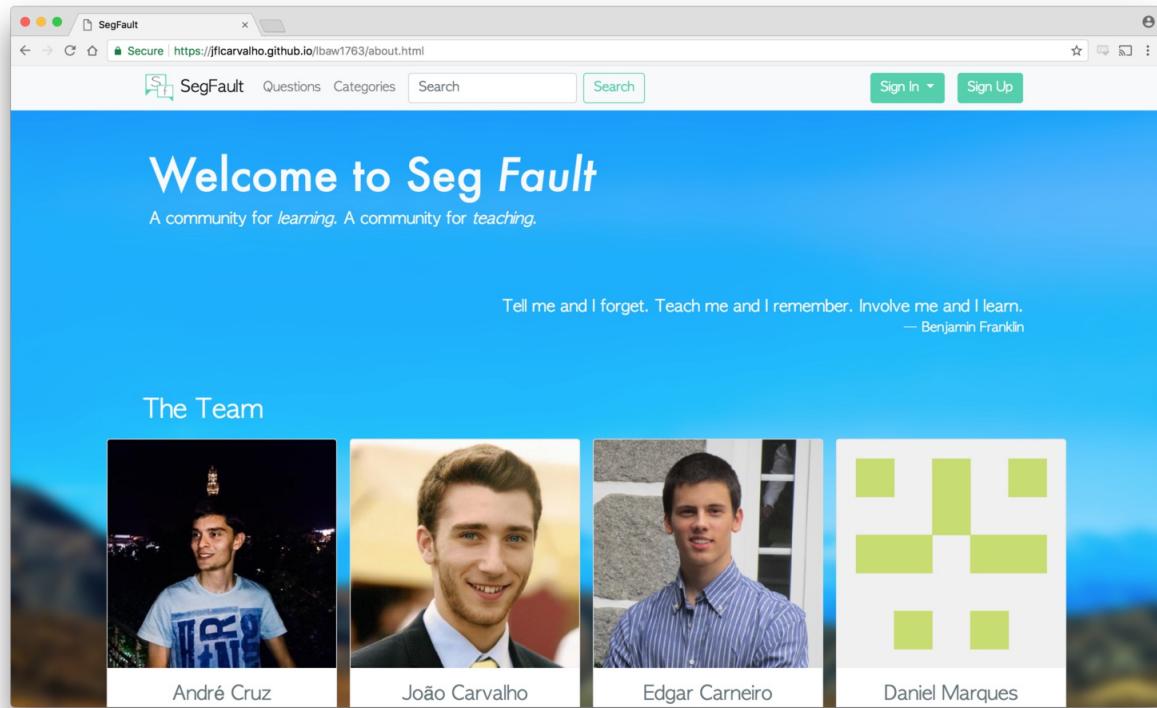


Figure 5.a: About page.



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: "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!" To the right, there are upvote and downvote buttons, and a section showing "Answers: 15" and "Votes: 5".

On the left, there is a small image of a green field with a character in the center. On the right, there is a sidebar with "Related Questions" and 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 and a different sidebar layout.

The main content area includes the original question and code, and a new comment from "AndreFCruz":

lorem ipsum is a filler text commonly used to demonstrate the textual elements of a graphic document or visual presentation. Replacing content with placeholder text allows designers to design the form of the content before the content itself has been produced.

1 UpVote / DownVote Report AndreFCruz

Below this, another comment from "jflicarvalho" reads:

Etiam semper lacus eu dolor dictum, a odio laoreet. Praesent luctus hendrerit dapibus.

1 UpVote / DownVote Report jflicarvalho

A third comment from "EdgarACarneiro" is shown:

This is a sample comment!! *Insert meme here*

1 UpVote / DownVote Report EdgarACarneiro

The sidebar on the right is labeled "Related Questions" and contains the same sample cards as the first screenshot.

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).

The screenshot shows a web browser window for the SegFault website (<https://jfcarvalho.github.io/baw1763/question-own.html>). The page displays a question with three answers. The first answer has a green 'Mark Answer as correct' button. The second and third answers also have such buttons. Each answer includes a trophy icon, a vote count of 7, and a 'Edited' status. Below each answer are 'Show Comments' and 'Report' links. The question text is placeholder text: "Lorem ipsum dolor sit amet, consectetur adipiscing elit." The browser's address bar shows the full URL.

Figure 6.e: Question page, owner view.

The screenshot shows a mobile device screen displaying the SegFault app. The top status bar shows signal strength, battery level, and the time (09:56). The app interface includes a logo, a bell icon, and a menu icon. The main content area shows the same question and answer structure as Figure 6.e. The first answer has a green 'Mark Answer as correct' button. The question text is placeholder text: "Lorem ipsum dolor sit amet, consectetur adipiscing elit." The bottom navigation bar of the mobile device is visible.

Figure 6.f: Question page, owner view, on mobile.

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.

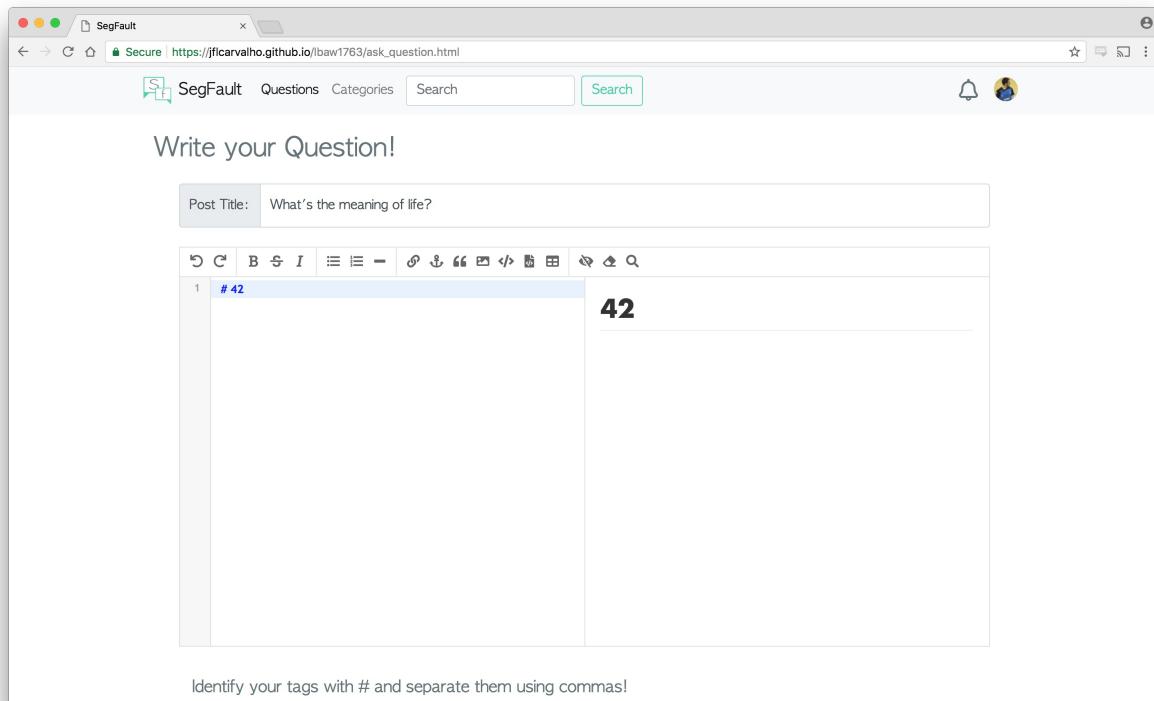


Figure 7.a: Ask question page.

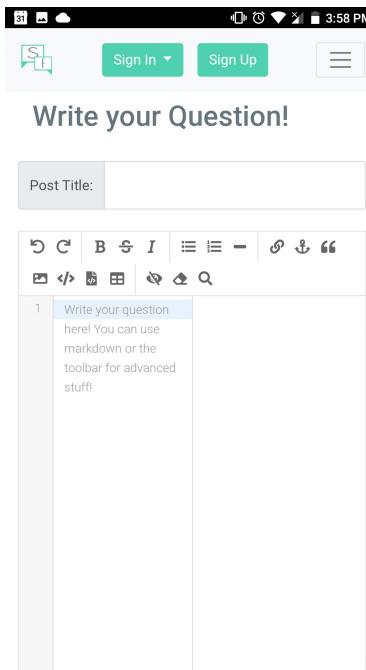


Figure 7.b: Ask/Edit question page, on mobile.

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*.

Control Panel

Trusted
Moderator

Reputation Points
200

Questions: 24
Answers: 24
Comments: 24

[Edit Profile](#)
[Settings](#)

António Almeida

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.

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

The screenshot shows a user's profile page on a desktop browser. The URL is <https://jflicarvalho.github.io/baw1763/own-profile.html>. The page has a header with the SegFault logo, navigation links for Questions, Categories, and Search, and a Control Panel sidebar on the right. The main content area displays a section titled "My Activity" with tabs for Questions, Answers, Comments, and Marked Questions. Below this are three collapsed sections, 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...". The Control Panel sidebar shows the user is a Trusted Moderator with 200 Reputation Points, and provides links to Edit Profile and Settings.

Figure 8.b: A user's [own profile page](#), scrolled down.

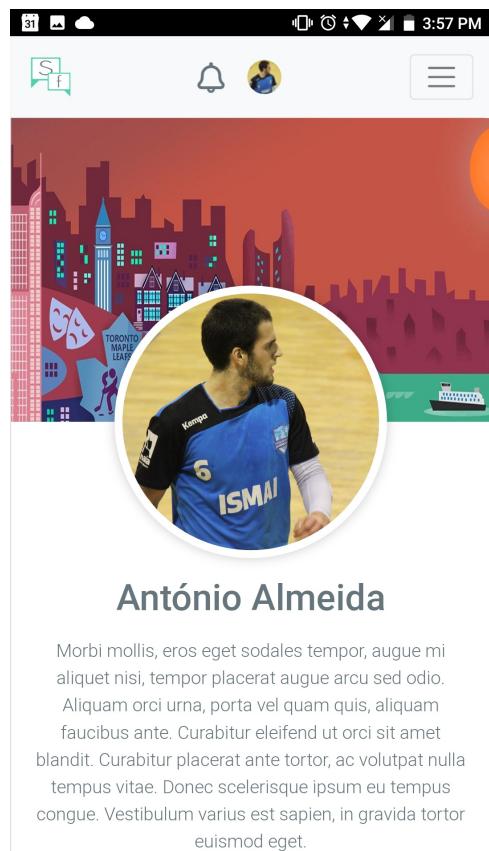


Figure 8.c: Profile page, on mobile.



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

UI06: Sign Up

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

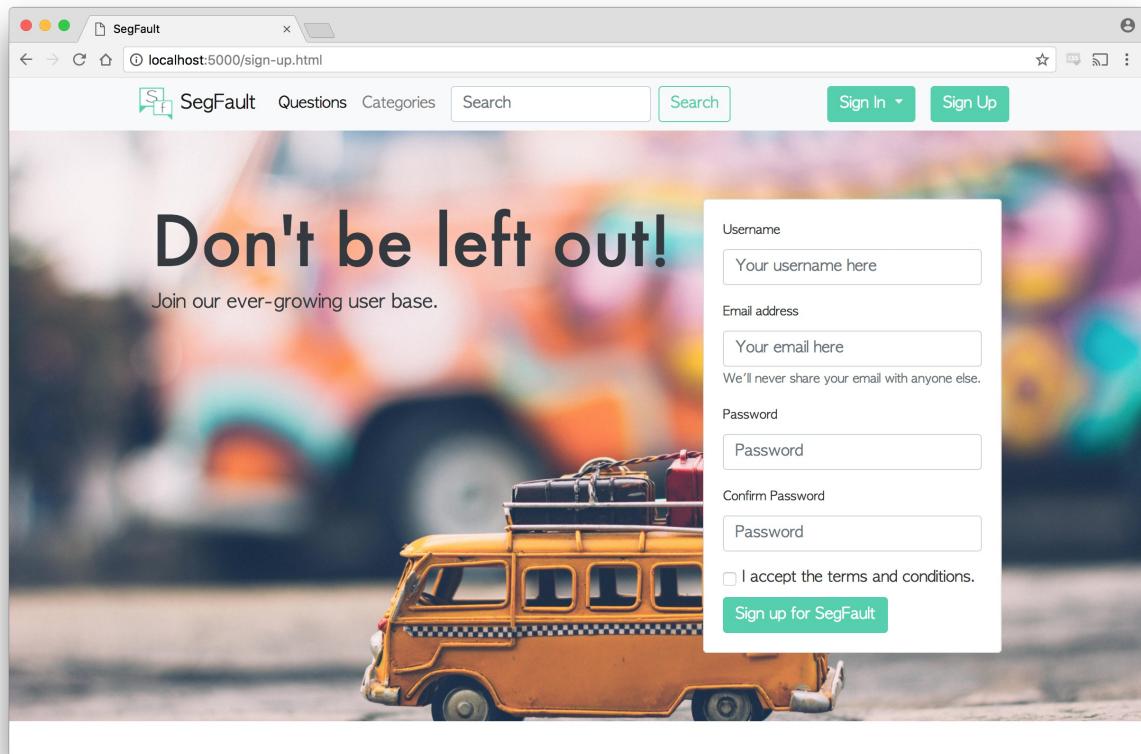


Figure 9.a: Sign Up page.

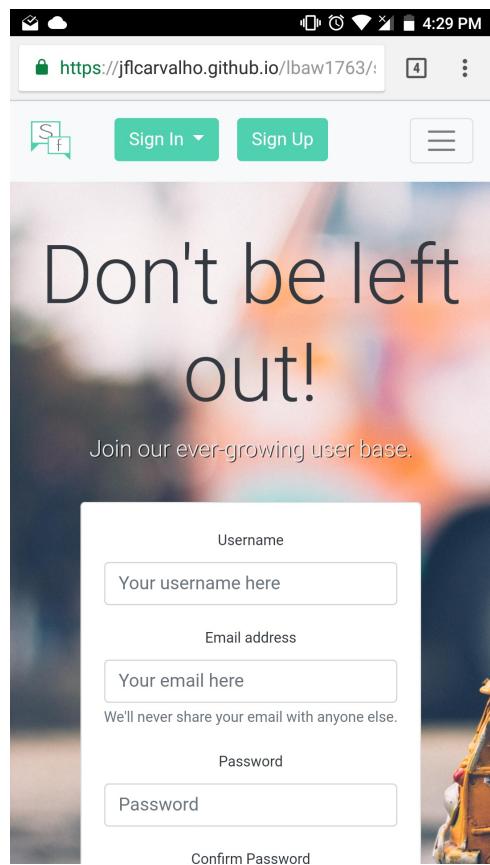


Figure 9.b: Sign Up page, on mobile.

UI08: Error

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

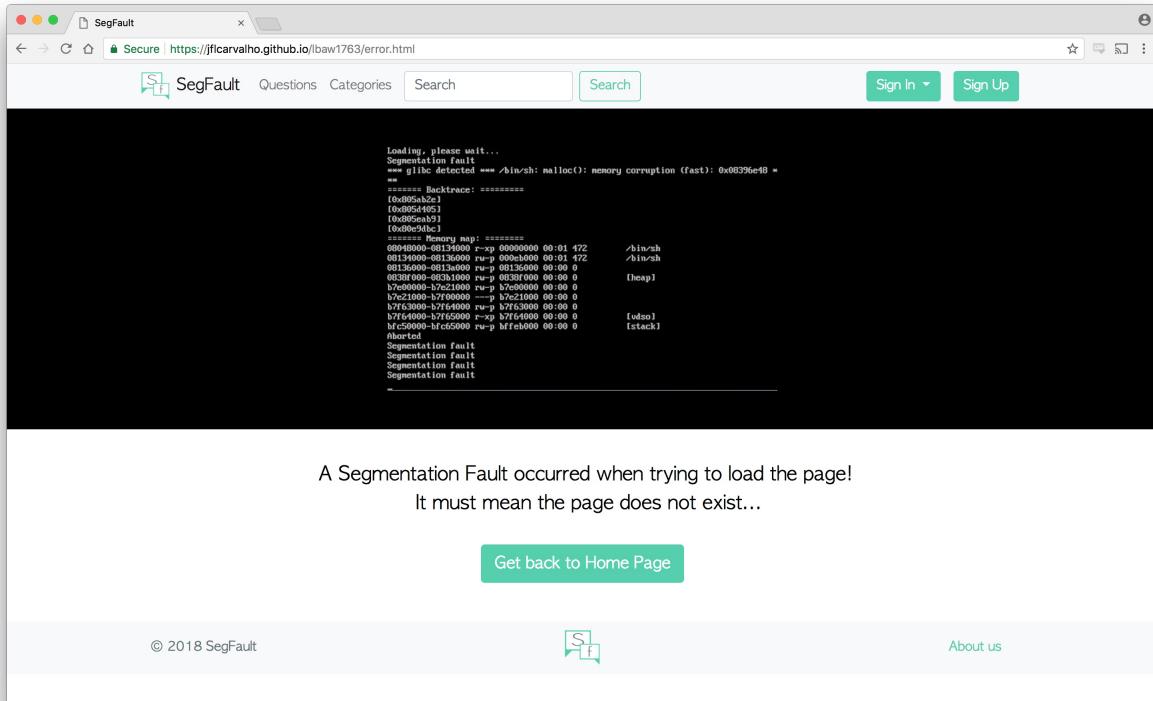
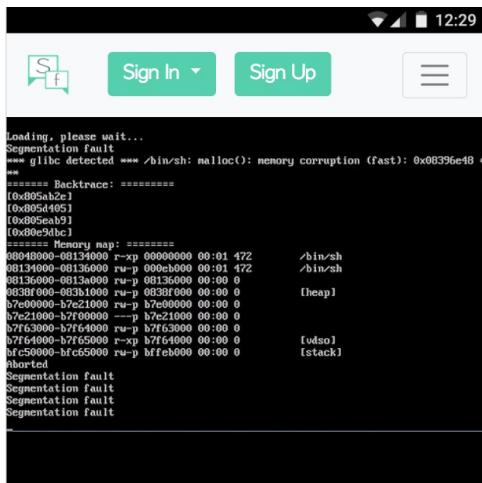


Figure 10.a: Error page.



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

André Cruz, up201503776@fe.up.pt
Daniel Marques, up201503822@fe.up.pt
Edgar Carneiro, up201503784@fe.up.pt
João Carvalho, up201504875@fe.up.pt