

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;

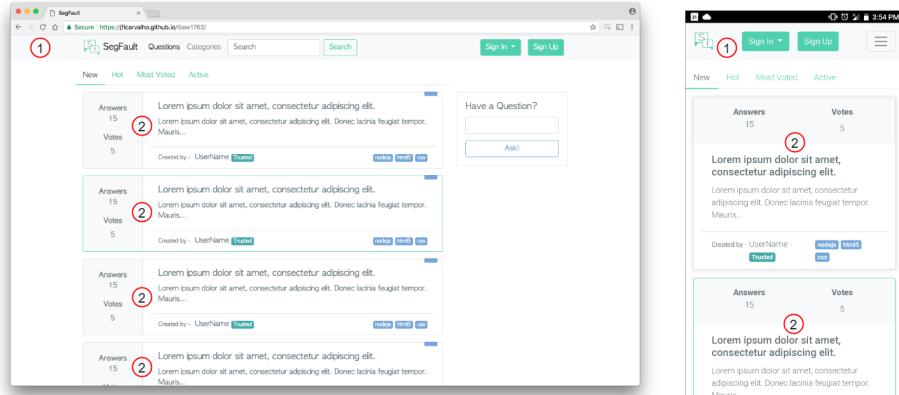


Figure 1.a: Main Interface.

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.

The screenshot shows a web application interface for a question titled "Lorem ipsum dolor sit amet, consectetur adipiscing elit.". The question text is: "Let's say we're making a first-person camera. The basic idea is if you want to look left & right, pitch to look up & down. So we write a bit of code like this (only as an example):". Below the text is a code block:

```

1. void update() {
2.     float speed = 1.0f * Time.deltaTime;
3. 
4.     // Turn around the y axis using the player's horizontal input.
5.     transform.Rotate(y, 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 block is the text "or maybe":

```

1. // Construct a quaternion or a matrix representing incremental camera rotation.
2. Quaternion rotation = Quaternion.identity;
3. 
4. rotation *= Input.GetAxis("Vertical") * speed;
5. rotation *= Input.GetAxis("Horizontal") * speed;
6. 
7. rotation *= -Input.GetAxis("Vertical") * speed;
8. 
9. // Add this change into the camera's current rotation.
10. transform.rotation *= rotation;

```

Below the code blocks is the note: "And it mostly works, but over time the view starts to get crooked, the camera seems to be turning on its own (2) even though we only told it to rotate on the x and y!".

The sidebar on the right contains a "Success card" with the text: "Etim semper locus eu dolor dictum, a dictum odio loisseet. Present luctus hendrerit dapibus. Class aptent taciti sociosq; ad litora torquent per consula nostra, per incipito nemoreos. Vestibulum dapibus leo id neque consequit placent". It also includes a "Related Questions" section and a "Comments" section with four numbered comments (3, 2, 1, 4), each with a "Edited" status.

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.

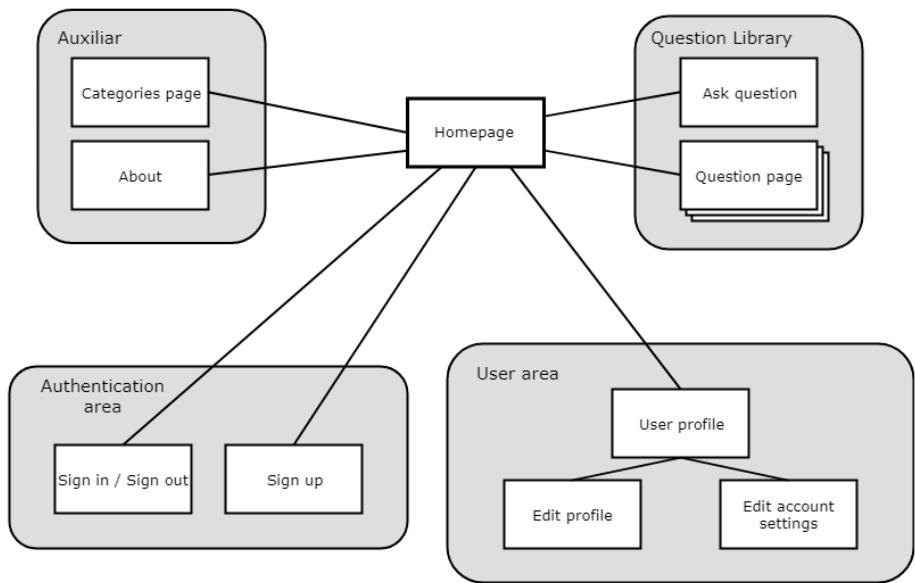
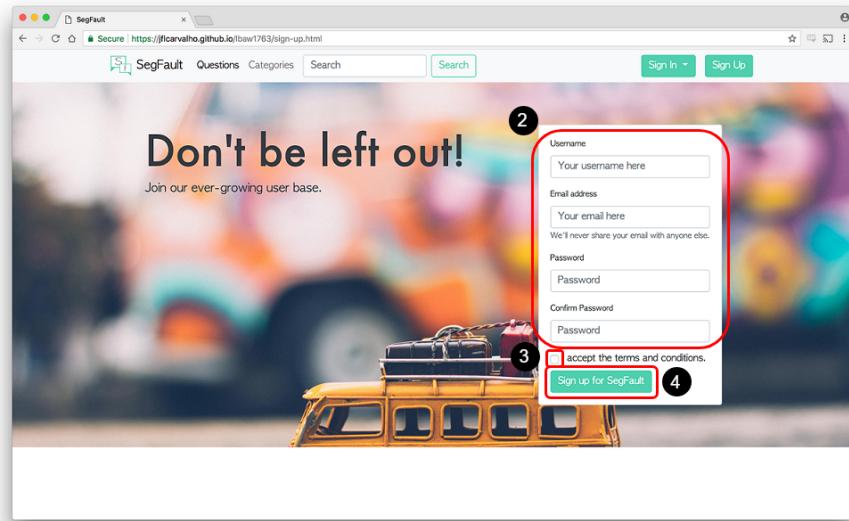
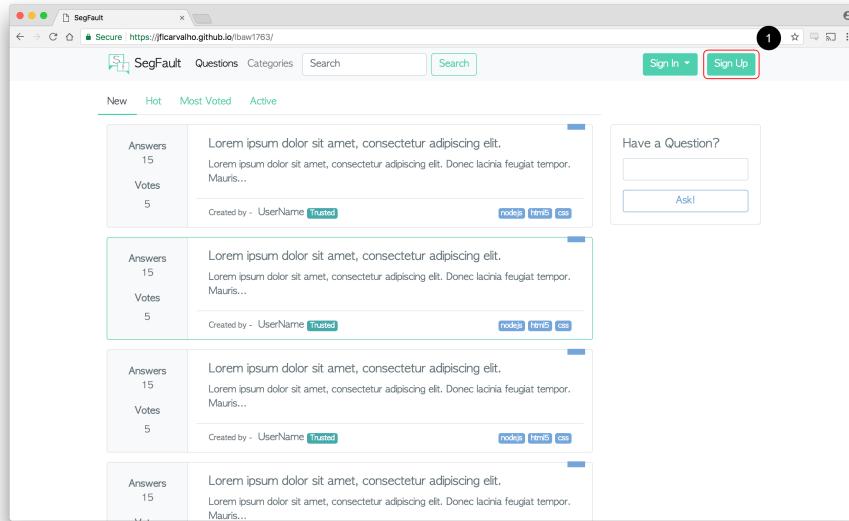


Figure 2.a: Sitemap.

3. Storyboards

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

Sign up



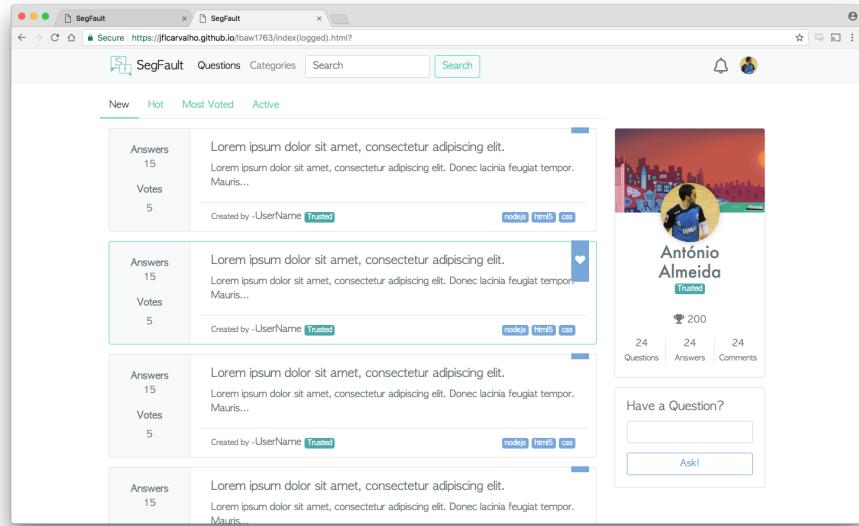


Figure 3.a: While visiting the website, to sign up you can click the “Sign up” button (1), which will redirect you to the “Sign up page” where you’ll enter your personal credentials (2), accept our terms and conditions by checking the checkbox (3) and finally clicking “Sign up for SegFault” (4).

Sign in

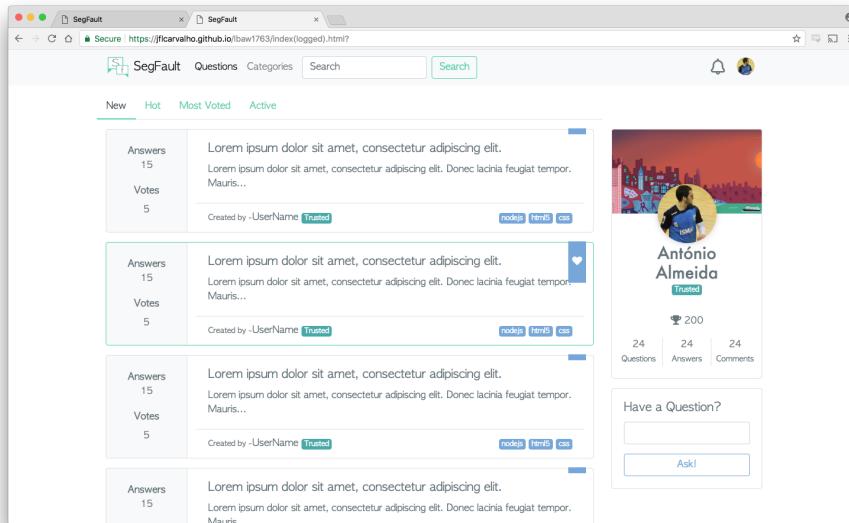
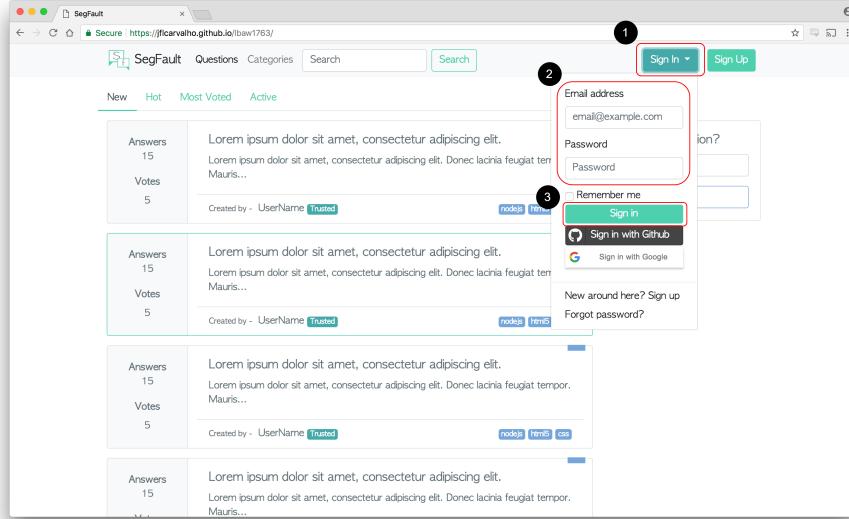


Figure 3.b: While visiting the website, to sign in you can click the “Sign in” button (1), then you’ll be shown a dropdown where you’ll have to fill your credentials (2) and finally enter them by clicking “Sign in” (3).

Ask a question

This screenshot shows the SegFault homepage. At the top, there's a navigation bar with tabs for 'New', 'Hot', 'Most Voted', and 'Active'. Below the navigation, there's a list of four questions, each with a summary, creation details, and a 'View' button.

Answers	Votes	Created by	View
15	5	-UserName	rodig [trusted]
15	5	-UserName	rodig [trusted]
15	5	-UserName	rodig [trusted]
15		-UserName	rodig [trusted]

On the right side, there's a sidebar for a user profile named 'Antônio Almeida' with 200 karma, 24 questions, 24 answers, and 24 comments. Below the sidebar, there's a 'Have a Question?' section with two buttons: 'How can I ask a question?' and 'Ask!'. The 'Ask!' button is highlighted with a red box and a number '2'.

This screenshot shows the 'Ask a question' page. A large red circle highlights the text input area where the question 'What's the meaning of life?' has been typed. A number '3' is placed inside this circle. Below the input area, there's a note: 'Identify your tags with # and separate them using commas!'. A red box surrounds the 'Tags' input field, which contains '# what's the meaning of life?' and a number '4' is placed inside it. At the bottom right, there's a blue 'Post your Question' button with a red box around it and a number '5' placed inside it.

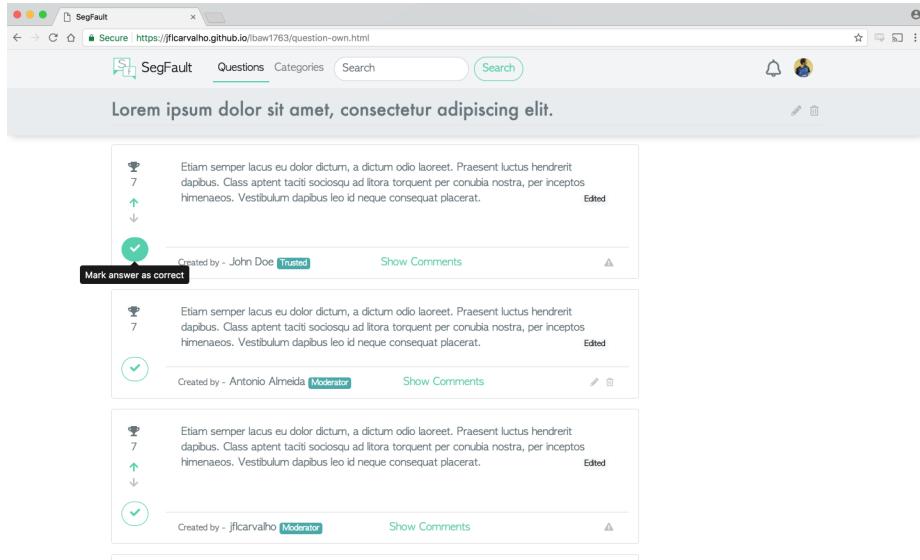


Figure 3.c: While logged in, to ask a question you must enter your question title (1) - which can later be modified -, click the “Ask!” button on (2) the landing page and you’ll be redirected to the “ask question page”. There you’ll write your question on the text area (3), the related tags (4) and then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

Answer a question

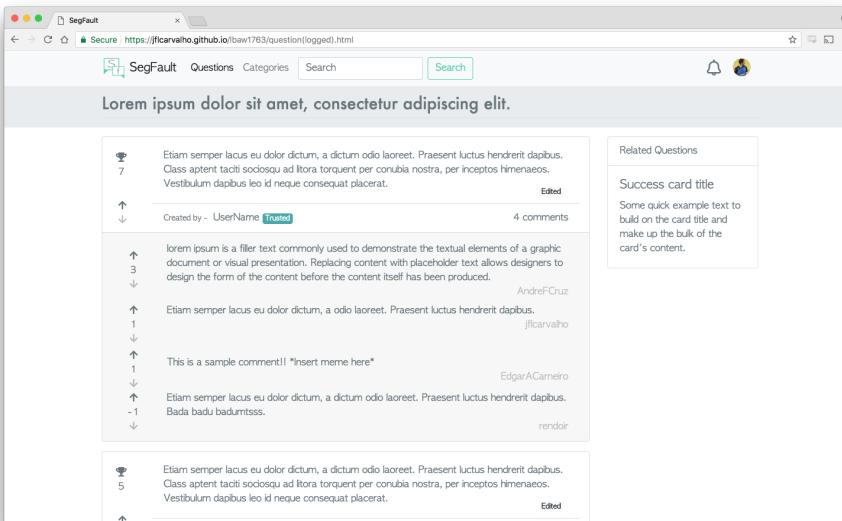
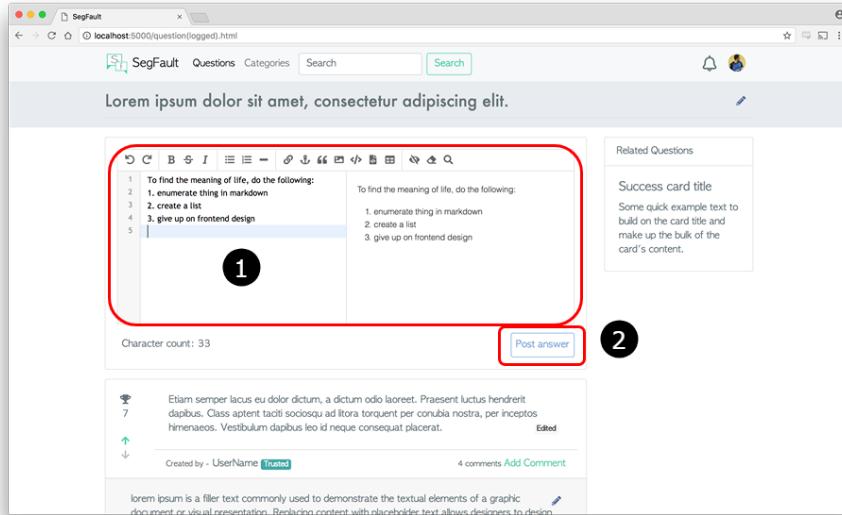


Figure 3.d: While logged in, to answer a question you must write your answer on the text area (1) and then submit your answer by clicking on the “Post answer” button (2).

Add a comment

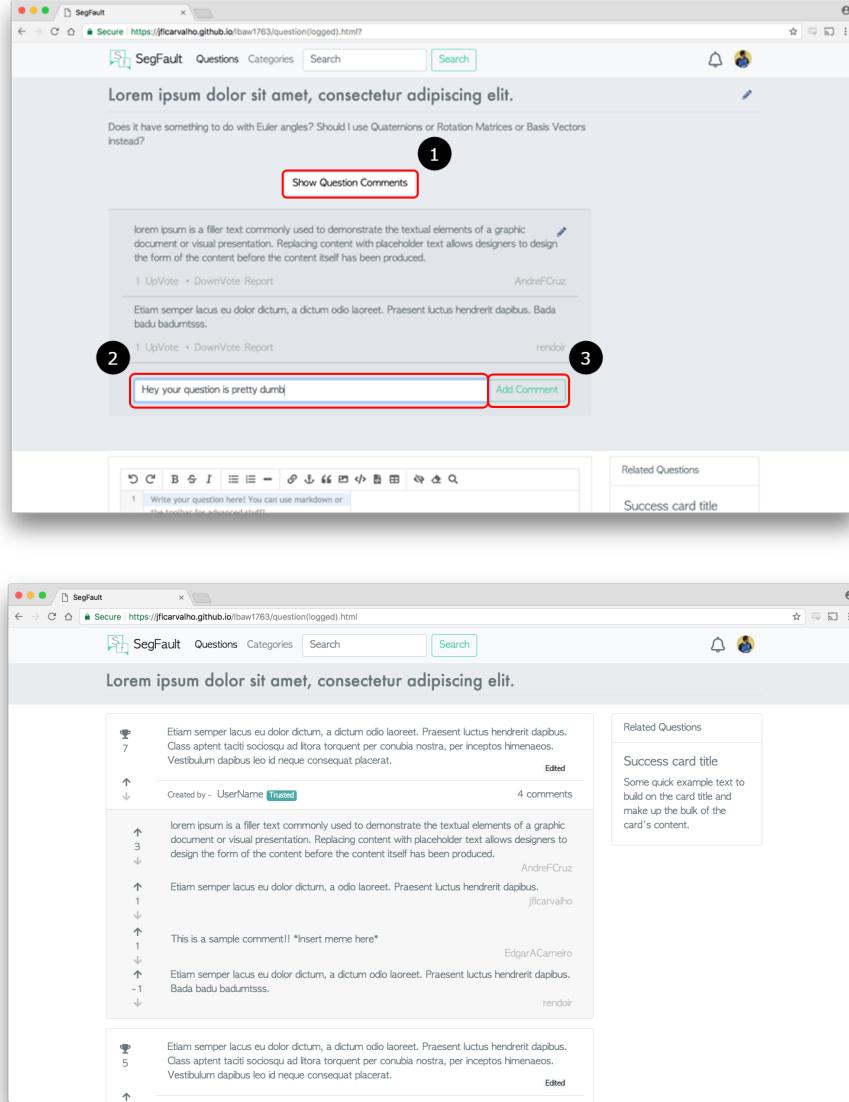


Figure 3.e: While logged in, to add a comment (to a question, for example) you should click the button that shows the comments to that message (1), then you'll be shown a text area where you can write your comment (2) and finally you can submit it by clicking on the “Add comment” button (3).

Check profile

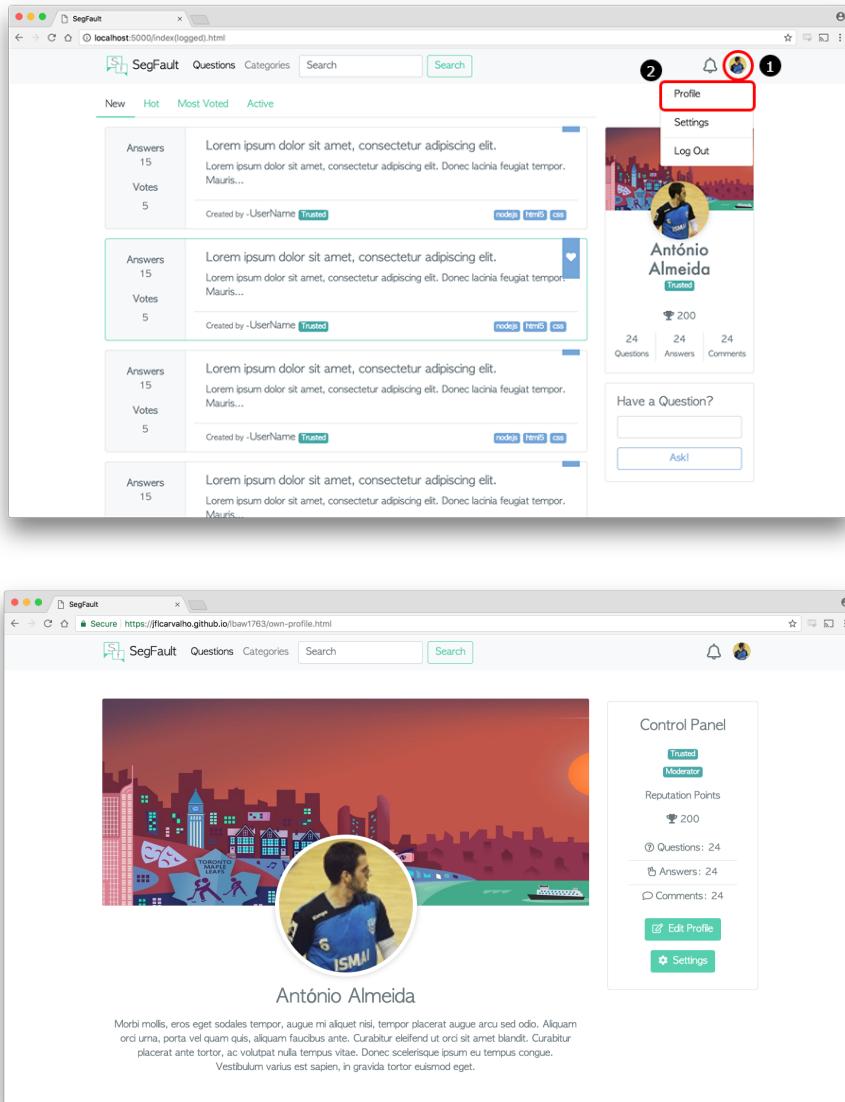


Figure 3.f: To check your profile click on your profile thumbnail (1), then you'll be shown a dropdown where you'll have to click on the “Profile” option (2).

Question page of an owner

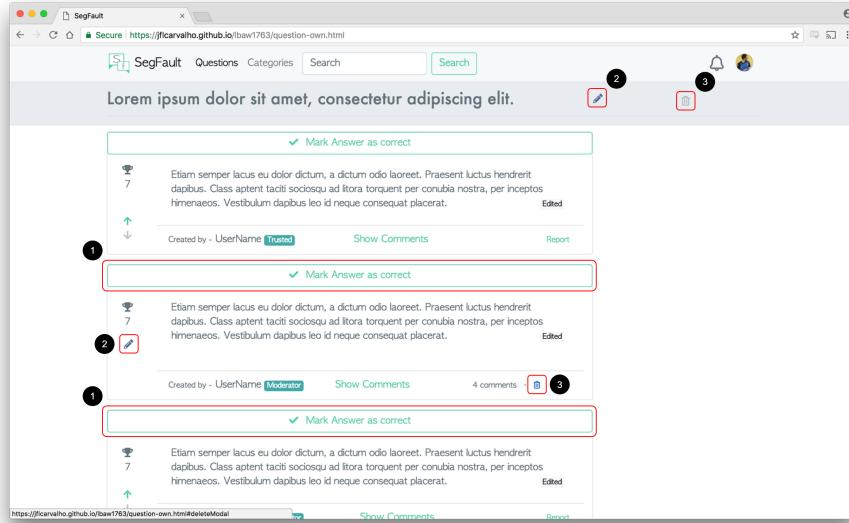


Figure 3.g: As an owner of a question you can mark an answer as correct (1), edit (2) or delete (3) any of your messages. Owner page here.

Question page of a moderator

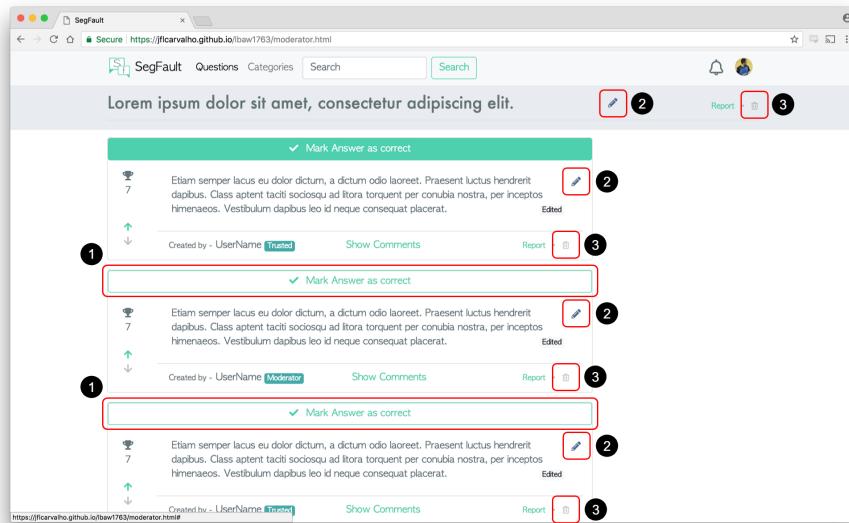


Figure 3.h: As a moderator you can mark an answer as correct for a given

question (1), edit (2) or delete (3) any message. Moderator page here.

Sign out

The figure consists of two screenshots of a web application interface. Both screenshots show a main content area with a list of items and a sidebar on the right. In the top screenshot, the sidebar contains a user profile for 'António Almeida' with a 'Log Out' option highlighted with a red box and a circled number '1'. In the bottom screenshot, the user profile has been replaced by a 'Sign In' button, indicating that the user has successfully logged out.

Figure 3.i: 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).

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.

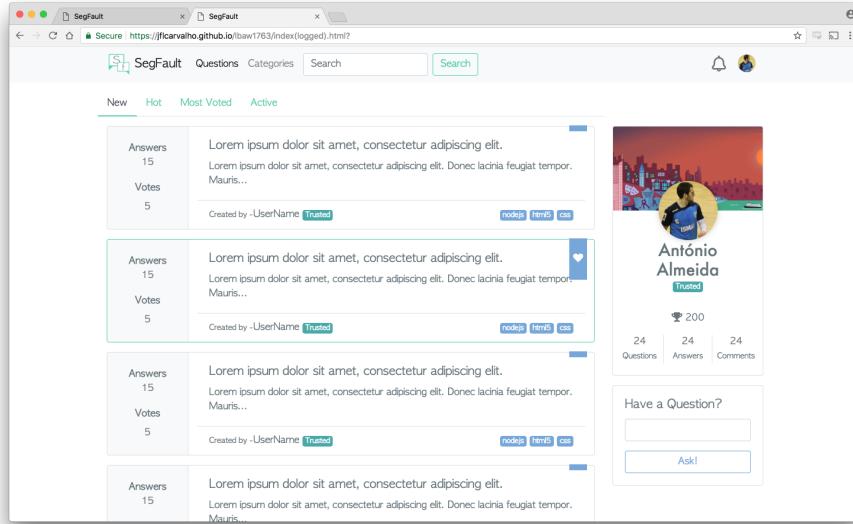


Figure 4.a: Home page.

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.

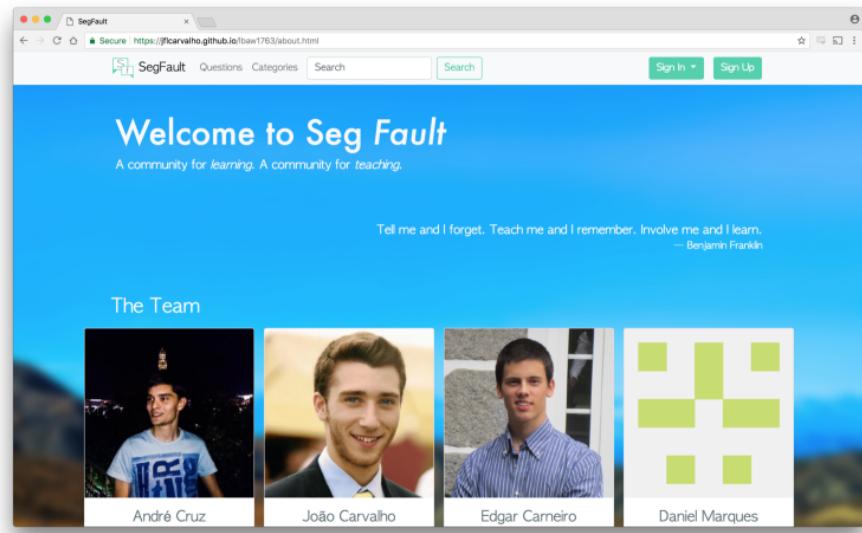


Figure 5.a: About page.

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.

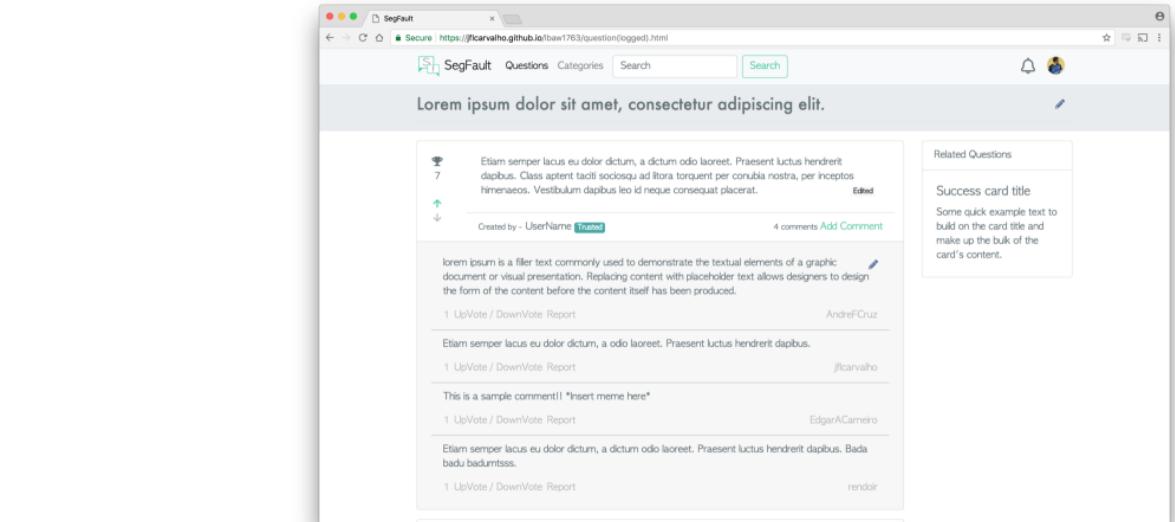
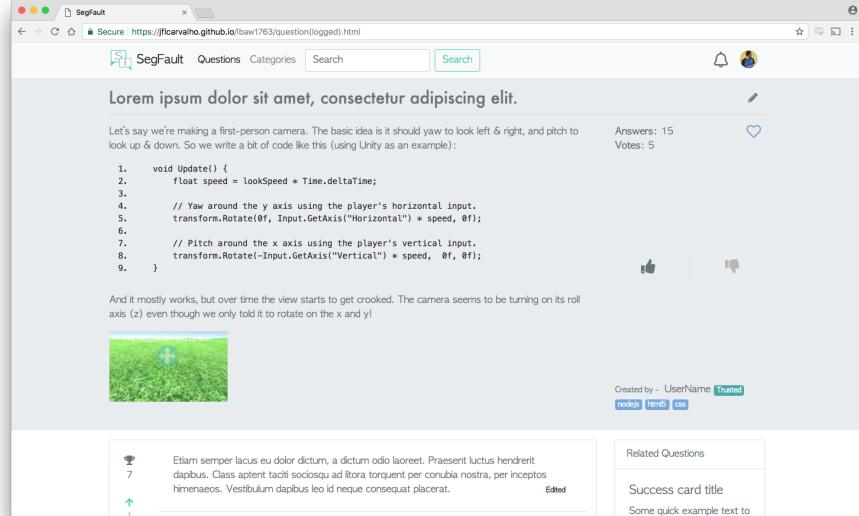


Figure 6.a: Question page.

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).

Desktop

Mobile

SegFault Questions Categories Search

Mark answer as correct

Created by - John Doe Trusted

Created by - Antonio Almeida Moderator

Created by - jjfcarvalho Moderator

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.

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Mark answer as correct

Created by - John Doe Trusted

Created by - Antonio Almeida Moderator

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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.

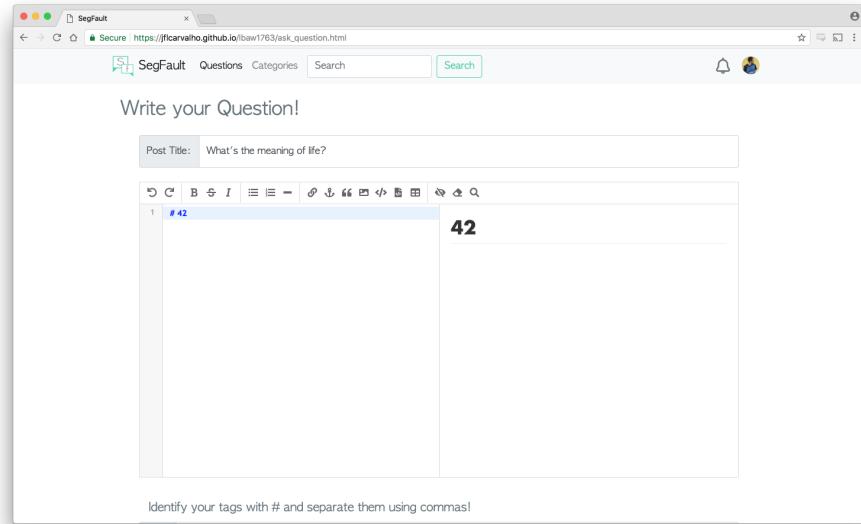


Figure 7.a: Ask question page.

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*.

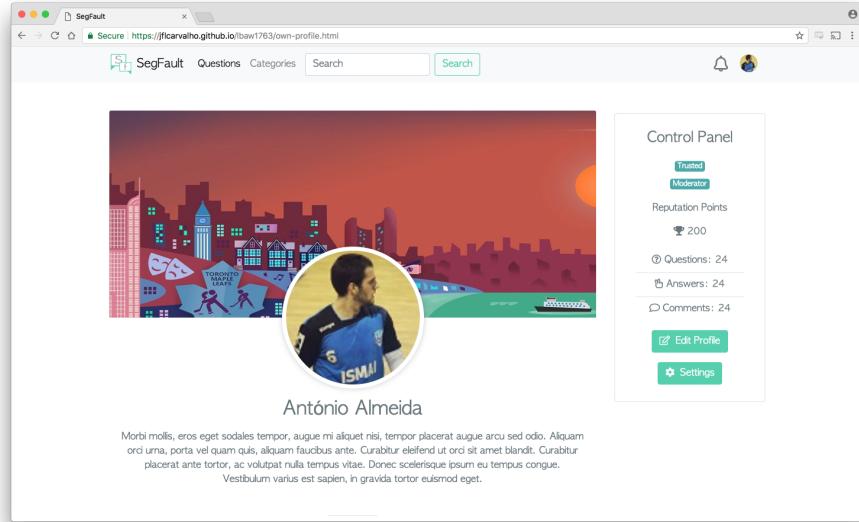


Figure 8.a: A user's own profile page.

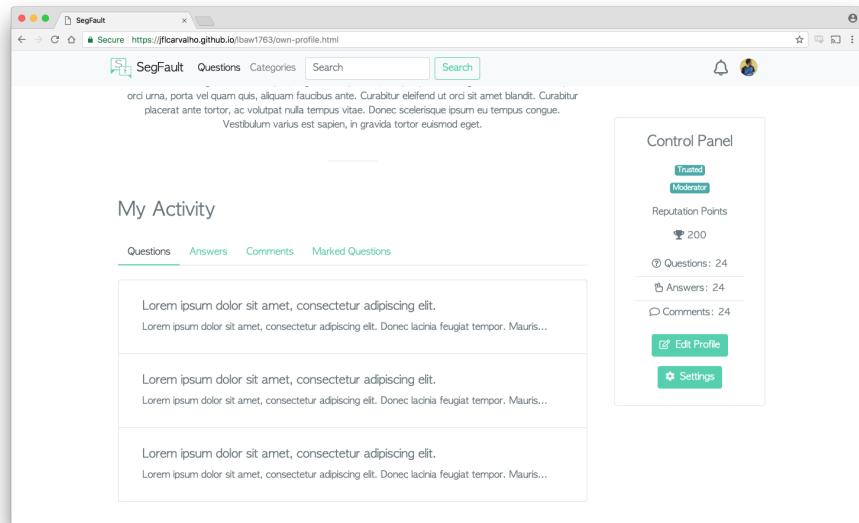


Figure 8.b: A user's own profile page, scrolled down.

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*.

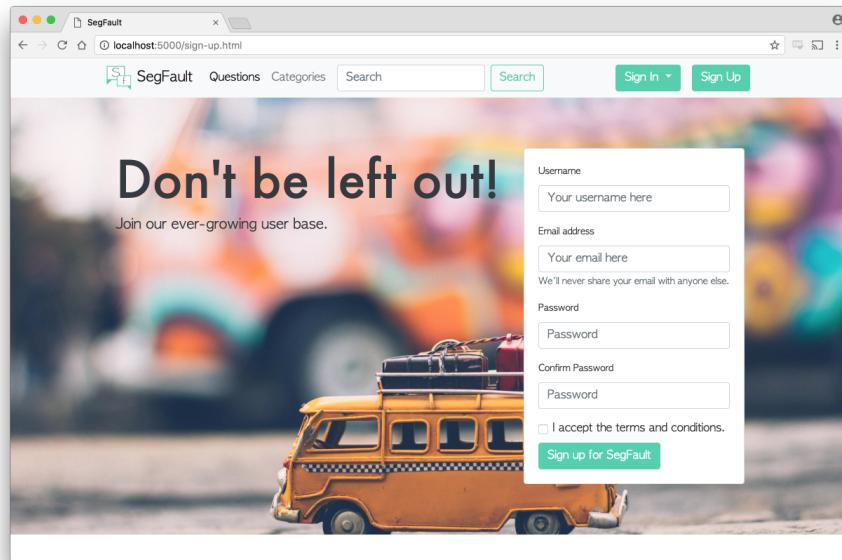


Figure 9.a: Sign Up page.

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.

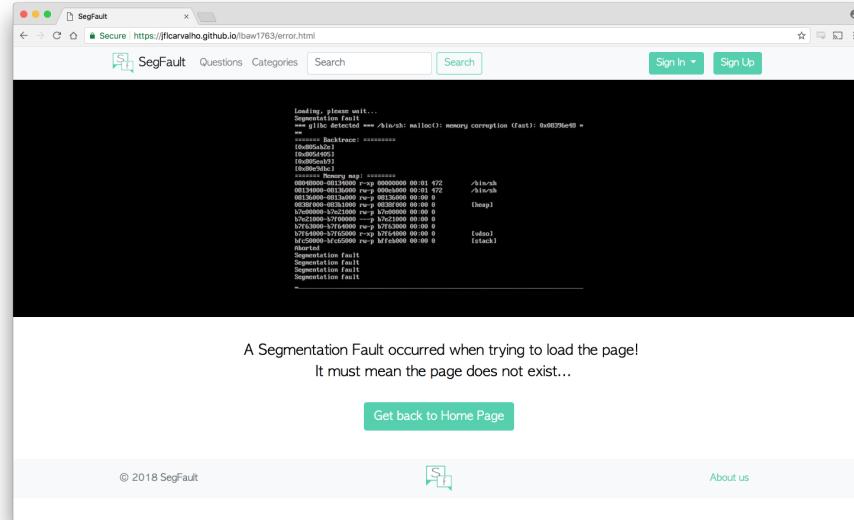


Figure 10.a: Error page.

Figure 10.b: Error page, on mobile.

UI09: Edit Profile

The edit profile lets a user edit he's own profile (bio, picture and background).

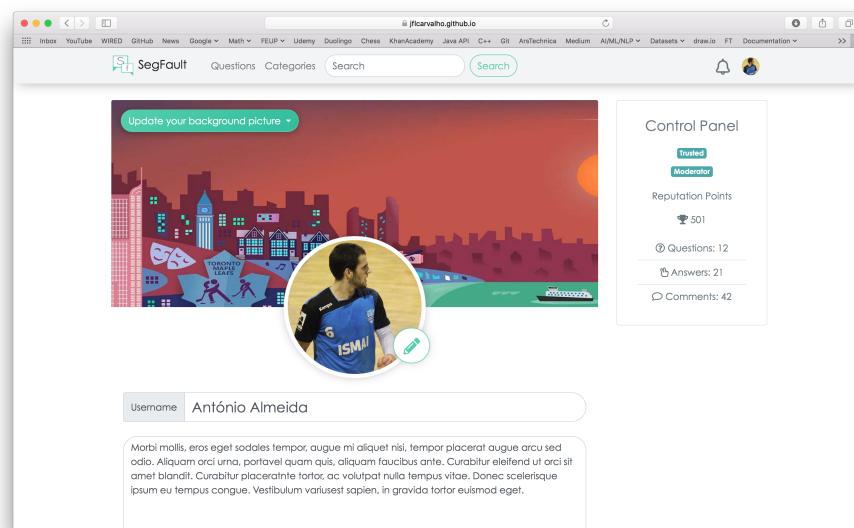


Figure 10.a: Edit Profile.

Revision history

- 12/03/2018: Moved sign in/up/out from the User Area to (a new) Authentication Area in the Sitemap.
 - 12/03/2018: Improved the order of the stories in the Story Board, added a title for each of them and added screenshots showing the results of the story.
 - 13/03/2018: Updated screenshots.
 - 11/04/2018: Added edit profile, UI09.
-

GROUP1763, 06/03/2018

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