

A10: Product

SegFault is an online discussion forum, for professionals developers and novices alike, where users can easily share expertise on all programming related topics.

The users can post detailed questions on the site, associating each question with a given set of categories. Additionally, users can answer questions on the site, as well as commenting other questions or answers. In order to keep the community self-moderated, users can also upvote/downvote questions/answers/comments, as well as reporting inappropriate messages. Users trusted by the community (measured by their reputation points) automatically gain the moderator status, gaining owner-like permissions over all messages (delete and edit other's messages). The website also provides advanced search options, with fuzzy matching against the question's title and content, as well as filtering search queries by categories.

In this artifact, we will identify all the functionalities of our platform as well as some development details relative to the product.

1. Installation

Link to the Github release with the final version of the code: TODO

Full Docker command to test the group's Docker Hub image using the DBM database:

```
docker run -it -p 8000:80 -e DB_DATABASE=lbaw1763 -e DB_USERNAME=lbaw1763
-e DB_PASSWORD=sq34hv89 sudoblob/lbaw1763
```

2. Usage

Navigate to the following link using your favorite browser: <http://lbaw1763.lbaw-prod.fe.up.pt>.

2.1. Moderator Credentials

All users actions are available to moderators throughout the site. For instance, a moderator may delete or edit anyone's messages, in order to ensure good content quality on the site.

Username	Password
lbawMod	password

2.2. User Credentials

Type	Username	Password
basic account	sudoblob	password

3. Application Help

Describe where help has been implemented, pointing to working examples.

4. Input Validation

Describe how input data was validated, and provide examples to scenarios using HTML validation and server-side validation.

5. Check Accessibility and Usability

Provide the results of accessibility and usability tests (as PDF files included in the submitted ZIP file on Moodle), using respectively the following checklists: <https://ux.sapo.pt/checklists/acessibilidade/>
<https://ux.sapo.pt/checklists/usabilidade/>

6. HTML & CSS Validation

We provided six PDF files in the submitted ZIP file on Moodle, two for each validated file (on NuHtmlChecker and W3CValidator). The validated files are: the global ***app.css*** file, the main page (***SegFaultIndex.html***), and the question page (***SegFaultQuestion.html***).

For the ***app.css*** file, the "Nu Html Checker" displayed 4 errors:

- 3 of the type "too few values for the property linear-gradient", offering no further information. According to both the MDN documentation and the W3Schools documentation the linear-gradient CSS property may receive 2, 3 or more arguments, validating our use with 3 arguments of type ***linear-gradient(direction, color-stop-1, color-stop-2)***.
- 1 of the type "is not a valid color, 3 or 6 hexadecimal expected": this is due to our use of transparency on a attribute's color (therefore using 8 hexadecimals), a feature that is available in CSS and implemented on all major browsers.

For the ***app.css*** file, the "W3C Validator" displayed several errors, all bootstrap related or regarding CSS variables.

For the main page (***SegFaultIndex.html*** file), the "Nu Html Checker" displayed a single error regarding a Google related necessary script.

For the question page (***SegFaultQuestion.html*** file), the "Nu Html Checker" displayed a couple errors regarding the Markdown Editor library we're using (***simplemde***).

The "W3C Validator" for the same page files (main and question page) displayed 6 errors, all regarding imports of CSS library files (bootstrap, font-awesome, simplemde).

7. Revisions to the Project

Describe the revisions made to the project since the requirements specification stage.

8. Implementation Details

8.1. Libraries Used

Include reference to all the libraries and frameworks used in the product. Include library name and reference, description of the use, and link to example where it's used in the product.

8.2 User Stories

Detail the status of the implementation of each user story. Also include the new user stories that were created during the project.

8.2.1. User

Identifier	Name	Priority	Description	State
US01	Question Page	High	As a User, I want to consult Questions, their Answers and their Comments, so that I can clarify my doubts.	100%
US02	Profile	High	As a User, I want to consult the profile of an authenticated User, so that I can see his biographic information.	100%
US03	Search	High	As a User, I want to search for specific posts, so that I can find what I'm looking for faster.	100%
US05	Profile Badges	High	As a User, I want to consult the badges of an authenticated User, so that I can better understand his community contributions and privileges.	100%
US04	Category Consult	Medium	As a User, I want to consult the questions related to a given category, so that I can search content regarding that category.	100%
US06	About Page	Low	As a User, I want to access the About page, so that I can see a complete website's description.	100%

Table 2: User's user stories.

8.2.2. Visitor

Identifier	Name	Priority	Description	State
US11	Sign Up	High	As a Visitor, I want to register myself into the system, so that I can become a Member.	100%
US12	Log In	High	As a Visitor, I want to authenticate into the system, so that I can have Member privileges.	100%
US13	Sign Up using Github	Low	As a Visitor, I want to register myself into the system using a Github account, so that I can become a Member, spending less time registering.	100%
US14	Log In using Github	Low	As a Visitor, I want to authenticate into the system using a Github account, so that I can have Member privileges.	100%
US15	Sign Up using Google+	Low	As a Visitor, I want to register myself into the system using a Google account, so that I can become a Member, spending less time registering.	100%
US16	Log In using Google+	Low	As a Visitor, I want to authenticate into the system using a Google account, so that I can have Member privileges.	100%

Table 3: Visitor's user stories.

8.2.3. Member

Identifier	Name	Priority	Description	State
US201	Logout	High	As a Member, I want to logout from the system, so that my account remains safe and other users can authenticate.	100%
US202	Create a Question	High	As a Member, I want to create a Question for the community to answer, so that I can get enlightened regarding my doubt.	100%
US203	Answer a Question	High	As a Member, I want to answer a Question created by other Member, so that I help him with his problems and doubts.	100%
US204	Edit Profile Information	High	As a Member, I want to edit my own profile information, so that it's updated and adequate (e.g. changing profile picture and editing biography).	100%
US205	Edit Account Settings	High	As a Member, I want to edit my own account settings, so that I keep my account safe (e.g. changing password).	100%
US206	Vote a Comment	High	As a Member, I want to vote on a Comment, so that other Users know what I think about that Comment.	100%
US207	Vote an Answer	High	As a Member, I want to vote on an Answer, so that other Users know what I think about that Answer.	100%
US208	Vote a Question	High	As a Member, I want to vote on a Question, so that other Users know what I think about that Question.	100%
US209	Create a Comment	Medium	As a Member, I want to comment an Answer or a Question, so that I can contribute to the discussion regarding that Question/Answer.	100%
US210	Mark a Question	Low	As a Member, I want to mark a question, so that I have easier access to it.	100%
US211	View Marked Questions	Low	As a Member, I want view my marked questions, so that I have easier access to them.	100%
US212	Notifications	Low	As a Member, I want to see my notifications, so that I'm always aware of updates on my questions.	100%
US213	Report a Message	Low	As a Member, I want to report a Message, so that the website remains without inadequate content.	100%

Table 4: Member's user stories.

8.2.4. Owner

Identifier	Name	Priority	Description	State
US31	Select correct Answer	Medium	As an Owner, I want to select a correct Answer to my own Question, so that other Users know what is the correct Answer without having to read all of the other answers.	100%
US32	Delete a Question	Medium	As an Owner, I want to delete my own Question, so that the website does not contain inadequate information.	100%
US33	Delete an Answer	Medium	As an Owner, I want to delete my own Answer, so that the related Question does not have inappropriate Answers.	100%
US34	Delete a Comment	Medium	As an Owner, I want to delete my own Comment, so that the related Question/ Answer does not have inappropriate comments.	100%
US35	Edit a Question	Medium	As an Owner, I want to edit my own Questions, so that I keep them updated and adequate.	100%
US36	Edit an Answer	Medium	As an Owner, I want to edit my own Answers, so that I keep them updated and adequate.	100%
US37	Edit a Comment	Medium	As an Owner, I want to edit my own Comments, so that I keep them updated and adequate.	100%
US38	Edit a Question's Categories	Medium	As an Owner, I want to edit my Questions' Categories, so that I keep them updated and correct previous mistakes.	100%

Table 5: Owner's user stories.

8.2.5. Moderator

Identifier	Name	Priority	Description	State
US41	Select correct Answer	Medium	As a Moderator, I want to select a correct Answer to any Question, so that other Users know what is the correct Answer without having to read all of the other answers.	100%
US42	Delete a Question	Medium	As a Moderator, I want to delete any Question, so that the website does not contain inadequate information.	100%
US43	Delete an Answer	Medium	As a Moderator, I want to delete any Answer, so that the related Question does not have inappropriate Answers.	100%
US44	Delete a Comment	Medium	As a Moderator, I want to delete any Comment, in order to filter inappropriate comments from a discussion.	100%
US45	Edit a Question	Medium	As a Moderator, I want to edit any Question, so that I keep them updated and adequate.	100%
US46	Edit an Answer	Medium	As a Moderator, I want to edit any Answer, so that I keep them updated and adequate.	100%

Identifier	Name	Priority	Description	State
US47	Edit a Comment	Medium	As a Moderator, I want to edit any Comment, so that I keep them updated and adequate.	100%
US48	Edit a Question's Categories	Medium	As a Moderator, I want to edit the Categories of any Questions, so that I keep them updated and adequate.	100%

Table 5: Moderator's user stories.

GROUP1763, 30/05/2018

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