**A10 – Product Delivery**

*Vici* is a one of a kind web application that seeks to help all kinds of organizations and individuals reach their highest potential, by assisting in the organization of projects. Besides being a project management tool, *Vici* includes the possibility to add contacts to your list and share content with a limited group within a project. So much more than a project management system, so much more than a social network, *Vici* combines all that you need for your professional life in one beautiful and easy to use package. What more could you want?

1. **Installation**

**Github release:** https://github.com/TeresaValerio/LBAW1734/releases/tag/Final

**Full docker command:** docker run -it -p 8000:80 -e DB\_DATABASE='postgres' -e DB\_USERNAME='postgres' -e DB\_PASSWORD='pg!fcp' lbaw1734/lbaw1734

1. **Usage**

**Link to website:** http://lbaw1734.lbaw-prod.fe.up.pt/

* 1. Administration Credentials
* Username: TeresaValerio;
* E-mail: [up201405655@fe.up.pt](mailto:up201405655@fe.up.pt);
* Password: teresaMaya19.
  1. User Credentials
* Username: FiSoares45;
* E-mail: [fi1996@gmail.com](mailto:fi1996@gmail.com);
* Password: Glsn36d.

1. **Application Help**

In terms of help, we developed two methods. First, the error messages shown when a user doesn’t fill out a form correctly. If the user tries to submit a form with one of the input areas wrong or non-existent, the system will alert the user and display a warning near the field in question. Second of all, we developed a FAQ (Frequently Asked Questions) page, in order to answer some of the users most common questions. Given the launch of the website, this page could be improved, based on user feedback.

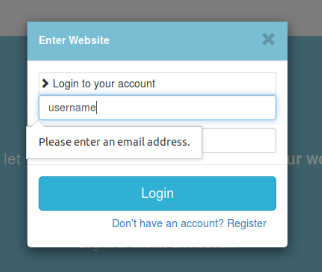


Figure 1: Example of error message as a contextual help for users to understand what is needed in certain inputs.

1. **Input Validation**

For input validation, 3 main levels were used. First, the database itself has constraints associated with the several tables and fields. This means that no value can be inserted in the database without first suffering a screening to check that it doesn’t violate any constraints. The second level is in the php code, present in several classes of the Laravel framework. Here, we can check if certain important values match what needs to be inserted in the table. The simplest example of this is setting a variable as required, only letting the system to attempt an insertion in the database if said variable is not null. Finally, even the HTML code, used for views, performs input validation. Every input field can be associated to a type of input (text, date, e-mail, …), and only accepts that type of input, not sending it to the controllers if it isn’t according to what was predetermined. Combined, these methods allow us to make sure no unwanted data is inserted into the database.

1. **Check Accessibility and Usability**

In terms of accessibility, the application scored a 17 out of 18 possible points. The only aspect that lacked in the application was the readability without CSS. Due to the high number of graphics, images and modals, turning off the CSS makes the website very hard to read.

On the other hand, in terms of usability, the website checked 22 out of 28 boxes. In this case, the major problem was adaption to other types of devices, other than PC, and lack of optimization.

The results of both tests are in annex.

1. **HTML & CSS Validation**

For the validation of HTML and CSS code, we used W3C tools developed for that end. Since we had the opportunity to correct most of the mistakes in the code, almost no warnings or errors were detected. The results of the pages that generated either one are in annex.

1. **Revisions to the Project**

First, there were a few changes made throughout the process of development of the project. Some user stories were dropped and some were added. The initial idea of having a specific server for each company that used Vici was dropped, due to its complexity. However, we added the chance for a user to have several profile and project pictures loaded in the website and to add contacts to a contact list. These additions

On the other hand, there were several user stories that, although still in the user story list and very much useful, we did not have the time to implement. These include all the administration pages, all updates made to the task table and a few search possibilities (search my boards, search my projects).

Finally, there was one user story (US206) that ended up being implemented, but in a different way that previously imagined. US206 – Search public projects, initially referred to unauthenticated users being able to access all public projects of the website. However, we found that that wasn’t adequate, and so implemented the same feature, but only accessible through a logged-in account.

1. **Implementation details**
   1. Libraries Used

No library was used.

* 1. User Stories

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Module | US Identifier | Name | Priority | Team member | State |
| M01 | US101 | Sign - up | High | Teresa Valério | 100% |
| US102 | Log - in | High | Teresa Valério | 100% |
| US201 | Profile | High | Inês Gonçalves, Teresa Valério | 100% |
| US202 | Created projects | High | Sara Gomes | 100% |
| US203 | Projects working | High | Sara Gomes | 100% |
| US207 | Log out | High | Teresa Valério | 100% |
| US208 | Delete account | High | Teresa Valério | 100% |
| US209 | Add contact | Medium | Inês Gonçalves, Sara Gomes | 100% |
| US210 | View personal calendar | Medium | Teresa Valério | 100% |
| US211 | Change settings | Medium | Teresa Valério | 90% |
| US212 | View contact list | Medium | Inês Gonçalves | 100% |
| US213 | Search my projects | Low | Sara Gomes | 5% |
| M02 | US204 | Create project | High | Sara Gomes, Teresa Valério | 100% |
| US205 | Project info | High | Inês Gonçalves | 90% |
| US214 | View project calendar | Medium | Teresa Valério | 100% |
| US215 | View project team | Medium | Inês Gonçalves | 100% |
| US216 | Search team | Low | Sara Gomes | 100% |
| US217 | View boards | High | Inês Gonçalves | 100% |
| US218 | Search boards | Low | Sara Gomes | 5% |
| US306 | Forum | Medium | Inês Gonçalves, Sara Gomes | 100% |
| US403 | Team | High | Inês Gonçalves, Sara Gomes | 80% |
| US410 | Privacy | Low | Sara Gomes | 100% |
| UI414 | Deadline | Medium | Sara Gomes | 100% |
| UI415 | Description | Medium | Sara Gomes | 100% |
| M03 | US409 | Create board | High | Sara Gomes | 100% |
| US411 | Add board workers | Medium | Sara Gomes | 100% |
| US412 | View board tasks | High | Inês Gonçalves | 100% |
| US413 | Search tasks | Low | Sara Gomes | 5% |
| M04 | US301 | Create task | High | Sara Gomes | 100% |
| US302 | Close task | High | Teresa Valério | 0% |
| US303 | Update task | High | Teresa Valério | 0% |
| US304 | Comment | High | Inês Gonçalves | 0% |
| US305 | Upload file | High | Inês Gonçalves | 0% |
| US401 | Deadline | Low | Sara Gomes | 100% |
| US402 | Budget | Low | Sara Gomes | 100% |
| US404 | Meeting | Medium | Sara Gomes | 100% |
| US407 | Delete task | High | Inês Gonçalves | 0% |
| US408 | Archive task | High | Teresa Valério | 0% |
| M05 | US505 | Delete user | Low | Teresa Valério | 0% |
| US503 | User list | High | Teresa Valério | 0% |
| US507 | Send notification | Low | Teresa Valério | 0% |
| US508 | Change permissions | Low | Sara Gomes | 0% |
| US509 | Search users | Low | Inês Gonçalves | 0% |
| M06 | US502 | All project list | High | Inês Gonçalves | 0% |
| US510 | Search projects | Low | Inês Gonçalves | 0% |
| US501 | Archive project | Medium | Teresa Valério | 0% |
| US504 | Delete project | Low | Teresa Valério | 0% |
| M07 | US001 | Home page | High | Inês Gonçalves | 100% |
| US002 | About page | High | Inês Gonçalves | 100% |
| US003 | Project list | High | Inês Gonçalves | 100% |
| US004 | Contacts | High | Inês Gonçalves | 100% |
|  | US206 | Search public projects | Low | Sara Gomes | 100% |

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