

# A9: Product

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Within the scope of the LBAW course, we were proposed to develop a web application for collaborative Questions and Answers, thus *Answerly* was born. This artefact describes the final delivery of the project.

## 1. Installation

Link to the Github release: [Final Version](#)

### Docker Command

```
docker-compose up
```

```
docker run -it -p 8000:80 -e DB_DATABASE=lbaw2064 -e DB_USERNAME=lbaw2064 -  
e DB_PASSWORD=VP238750 lbaw2064/lbaw2064
```

## 2. Usage

URL to the product: <http://lbaw2064.lbaw-prod.fe.up.pt>

### 2.1. Administration Credentials

Username	Password
pedrodantas	1234

### 2.2. User Credentials

Type	Username	Password
moderator account	lurdes01	1234
basic user account	vieira01	1234

## 3. Application Help

In order to improve the user experience, we added some help buttons to better inform the user the information that is being presented to them in that page:

**Question:** Here it is explained to the user in what this page consists, what reports are and what the marked answers mean



edu01

## Running a program from within java code

[Edit](#)
[Delete](#)

What is the simplest way to call a program from with a piece of Java code? (The program I want to run is aiSee and it can be run from command line or from Windows GUI; and I am on Vista but the code will also be run on Linux systems).

[programming](#)

14

10

[→ follow](#)
[Help](#)
[Report](#)

Do you know the answer to this question?

**Profile:** In the profile we explain what information is presented, what you can edit and what a user's score means


[Profile](#)
[Recent Questions](#)
[Moderate](#)

Eduardo Cardoso

Username: edu01

Score 2

[Help](#)

Email: lurdes01@hotmail.com

Description: babysitter

## 4. Input Validation

For input validation on the client side, we used Javascript to validate the creation of a new question.

```
function sendCreateQuestionRequest(event) {

    let title =
document.getElementById("formControlTextareaQuestion").value;
    let description =
document.getElementById("formControlTextareaDescription").value;

    if (title != '' && description != '')
        sendAjaxRequest('put', '/api/question', { title: title,
description: description }, questionAddedHandler);
    else {

        let older_alert = document.getElementById('alert_question');
        if (older_alert != null)
```

```

        return;

        let new_alert = createAlertQuestion();

        let section = document.getElementById("add_question_form");
        let list = document.getElementById("add_question_form");

        section.insertBefore(new_alert, list.childNodes[0]);

        return;
    }

    event.preventDefault();
}

function createAlertQuestion() {
    let new_alert = document.createElement('alert');
    new_alert.classList.add('alert');
    new_alert.innerHTML = `<div id="alert_question" class="card text-white
bg-danger">
                        <div class="card-body">
                            <p class="card-text">You must fill both
title and description</p>
                        </div>
                    </div>`;

    return new_alert;
}

```

We used server-side validators on the registration of the users.

```

protected function validator(array $data)
{
    return Validator::make($data, [
        'first_name' => 'required|string|max:100',
        'last_name' => 'required|string|max:100',
        'email' => 'required|string|email|max:200|unique:user',
        'bio' => 'required|string|max:500',
        'username' => 'required|string|max:100|unique:user',
        'password' => 'required|string|min:6|confirmed',
    ]);
}

protected function create(array $data)
{
    return User::create([
        'first_name' => $data['first_name'],
        'last_name' => $data['last_name'],
        'email' => $data['email'],
        'bio' => $data['bio'],
        'username' => $data['username'],
    ]);
}

```

```
        'password' => bcrypt($data['password']),  
    ]);  
}
```

## 5. Check Accessibility and Usability

Accessibility results: 14/18

Usability results: 24/28

The PDF files are included in the submitted ZIP file on Moodle.

## 6. HTML & CSS Validation

We had some errors on the pagination and we did not changed much regarding that since it was intrinsic to Laravel. Besides that we had no more errors. We also had a few warnings that we did not find relevant. The PDF files are included in the submitted ZIP file on Moodle.

## 7. Revisions to the Project

The project had a good planning and the development of the project went accordingly to plan. No major changes or restructures happened.

## 8. Implementation Details

### 8.1. Libraries Used

The following libraries and frameworks were used in this project:

- Bootstrap: open source toolkit for development with HTML, CSS, and JS.
- Font Awesome: an icon set and toolkit.
- Laravel: a PHP Framework For Web Artisans.

### 8.2 User Stories

US Identifier	Name	Priority	Team members	State
US01	Home Page	Mandatory	All	100%
US02	Question's page	Mandatory	Nuno Cardoso	100%
US09	Sign Up	Mandatory	All	100%
US10	Sign In	Mandatory	All	100%
US13	Create Question	Mandatory	Nuno Cardoso, Pedro Dantas	100%
US14	Reply Question	Mandatory	All	100%
US15	Logout	Mandatory	All	100%

US Identifier	Name	Priority	Team members	State
US26	Edit my Content	Important	Nuno Cardoso	100%
US18	Comment	Important	Nuno Cardoso, Pedro Dantas	100%
US16	Vote	Important	Eduardo Macedo	100%
US03	Search with Keywords	Important	Nuno Cardoso, Roberto Mourato	100%
US17	Set Labels on Question	Important	Nuno Cardoso	100%
US24	Follow Questions	Important	Nuno Cardoso, Pedro Dantas	100%
US23	Select best answer	Important	Eduardo Macedo, Pedro Dantas	100%
US04	Search with Labels	Important	Eduardo Macedo, Roberto Mourato	100%
US05	Search by Date	Important	Nuno Cardoso	100%
US37	Remove Publications (Admin)	Important	Nuno Cardoso	100%
US30	Edit Publications (Admin/Mod)	Important	Nuno Cardoso	100%
US40	Access Moderation Area	Important	Nuno Cardoso, Pedro Dantas	100%
US31	View reported Users	Important	Nuno Cardoso, Pedro Dantas	100%
US29	Add/Remove Labels (Admin/Mod)	Important	Eduardo Macedo, Nuno Cardoso, Pedro Dantas	100%
US41	Access Profile Page	Medium Importance	Eduardo Macedo, Nuno Cardoso, Roberto Mourato	100%
US27	Visit a Profile	Medium Importance	Nuno Cardoso	100%
US25	Edit Profile Page	Medium Importance	Eduardo Macedo, Roberto Mourato	100%
US20	Report	Medium Importance	Nuno Cardoso	100%
US34	Manage Moderators	Medium Importance	Nuno Cardoso	100%
US36	Ban Users	Medium Importance	Nuno Cardoso	100%
US28	Delete Account	Medium Importance	Nuno Cardoso	100%

US Identifier	Name	Priority	Team members	State
US22	Notifications	Medium Importance	Eduardo Macedo, Pedro Dantas	100%
US38	Manage Administrator	Low Importance	Nuno Cardoso	100%
US42	Recover Password	Low Importance	---	0%
US21	Follow Labels	Low Importance	---	0%
US33	View nr. of reports	Low Importance	---	0%
US35	Filter Moderator Reports	Low Importance	---	0%
US06	Search with Users	Low Importance	---	0%
US07	About us Page	Optional	Nuno Cardoso	100%
US39	404 page	Optional	Nuno Cardoso	100%
US11	Sign Up w/ Google API	Optional	---	0%
US12	Sign In w/ Google API	Optional	---	0%
US19	History	Optional	---	0%
US32	Questions, Replies and Comments History	Optional	---	0%
US08	View Statistics	Optional	---	0%

### New User Stories

US Identifier	Name	Priority	Description
US39	404 page	low	As a User, I want it is shown to me a 404 page, so that I know I am trying to access some inexistent page.
US40	Access Moderation Area	medium	As a Moderator, I want to be able to access a moderation area, so that I can check for user reports and events and better handle them.
US41	Access Profile Page	medium	As an Authenticated user, I want to be able to access my profile page, so that I can see my account information.

US Identifier	Name	Priority	Description
US42	Recover Password	low	As an Authenticated user, I want to be able to recover my password, so that I can login in the system once again.

With our product, a user can ask questions, elaborate answers and comment. A user may also create an account and check its profile, or see other users public profile information. Moderators and Administrators have access to a moderation area, where they can manage system's content. Moderators can edit other users' content. Administrators can edit and delete other users' content. They are also abled to ban, demote and promote users.

## Revision history - a2

1. First submission (24/02/2020).
2. Minor changes in User Stories; added User Story to promote Admins; changed priorities in Moderator and Admin's User Stories; switched Ethics to Scalability as a crucial technical requirement (03/03/2020).
3. Specified the API as Google Sign In API in the actors' diagram and added user stories regarding search and select best answer features (10/03/2020).

## Revision history - a7

1. First submission (13/04/2020).
2. Changed some endpoints, fixed minor errors (03/05/2020).
3. Changes on requests' url for promote, demote and ban users (03/06/2020).

## Revision history

1. First submission (03/06/2020).

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GROUP2064, 03/06/2020

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