

User manual for OSOC Selection tool

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1. Introduction

In this manual we'll explain everything there is to explain about the OSOC selection tool we've created. Going from installation and configuration, to usage of the selection tool. And we'll even go as far as showing you how to further develop this tool.

2. Product information

This manual concerns the Open Summer Of Code Selection tool, version 2.

3. Intended use

The tool is intended to be (and made to be) used by the selection-team of OSOC. With this we mean the people of OSOC itself that will supervise and conduct the selection-process (they are intended to be admins within our tool). And the people that will help the selection process by suggesting students (the coaches). These coaches will have to be invited every year, as these people mostly differ from edition to edition.

4. Installation guide

4.1. Configuration

While developing or before installing you can use your own environment variables by using a .env file in the backend and/or frontend directory of the application.

An example .env file for the backend directory of the application (IP-addresses may need to be changed):

```
# Mongo
MONGO_URL=192.168.0.102
MONGO_PORT=27017
MONGO_USER=root
MONGO_PASSWORD=justapassword

# Redis
REDIS_URL=192.168.0.102
REDIS_PORT=6379
REDIS_PASSWORD=justapassword
```

```
# SMTP Mail
SMTP_SERVER=smtp.gmail.com
SMTP_SSL_PORT=465
SENDER_EMAIL=osoc.groep4@gmail.com
SENDER_PASSWORD=Justapassword123!

# Invite Settings
INVITE_EXPIRE=4320 # in minutes
PASSWORDRESET_EXPIRE=30 # in minutes
CHANGE_EMAIL_EXPIRE=30 # in minutes

# Testing
TEST_EMAIL=osoc.groep4+test@gmail.com
```

An example .env file for the frontend directory of the application:

```
NEXT_BASE_PATH=""
NEXTAUTH_URL="http://127.0.0.1:3000/api/auth"
NEXT_API_URL="http://127.0.0.1:8000"
NEXT_INTERNAL_API_URL="http://127.0.0.1:8000"
NODE_ENV="development" # or production
```

4.2. Requirements

- Docker (installation guide: <https://docs.docker.com/get-docker/>)
- Docker Compose (installation guide: <https://docs.docker.com/compose/install/>)

If you want to run docker without sudo, we recommend you check here: <https://docs.docker.com/engine/install/linux-postinstall/>

4.3. Local installation

You first need to clone the repository that contains the code for the selection tool:

with SSH, recommended

```
git clone git@github.com:SELab-2/OSOC-4.git OSOC-selection-tool
cd OSOC-selection-tool
```

with HTTPS

```
git clone https://github.com/SELab-2/OSOC-4.git OSOC-selection-tool
cd OSOC-selection-tool
```

Now you need to start the application:

```
docker-compose up -d --build
```

If you want to restart all services you can use:

```
docker-compose restart
```

If you only want to restart one service, use one of the following commands:

```
docker restart osoc-backend
```

```
docker restart osoc-mongodb
```

```
docker restart osoc-redis
```

```
docker restart osoc-frontend
```

If you want to stop all services you can use

```
docker-compose down
```

4.4. Deployment

GitHub Actions are used to automatically deploy the new codebase from the master or development branch to the server. A separate docker-compose file is used by the GitHub Actions to deploy the application to the production server.

The application can be accessed at <https://sel2-4.ugent.be>.

5. How to further develop & test

5.1. Further development

You can find the Swagger API docs on `http://localhost:8000/docs` (change the port if needed). These docs describe what requests you can make to the API (backend), and what type of body the request expects (if a body is needed for that request).

If you find yourself in doubt where to find something, take a look at the [directory structure](#).

5.2. Testing

(Backend) Tests will run automatically with GitHub actions but can be run locally too. There is a separate docker-compose file for the test containers, so they won't interfere with the running containers for the development or production. The containers used for testing don't map there ports to the host machine, so they can't be accessed by the internet for security.

5.2.1 Backend tests

Run backend (API) tests:

```
docker-compose -f test-docker-compose.yml up --build -d # this starts the test
database and test redis server
docker-compose -f test-docker-compose.yml run test-osoc-backend python -m
unittest discover # This executes the python -m ... command in the backend
container
docker-compose down # this stops the container again
```

5.2.2 Frontend tests

Unit tests can be run once using the command `yarn test`. If you want to run tests in watch mode or want more detailed output use `yarn test_watch` or `yarn test --watch-all --verbose`.

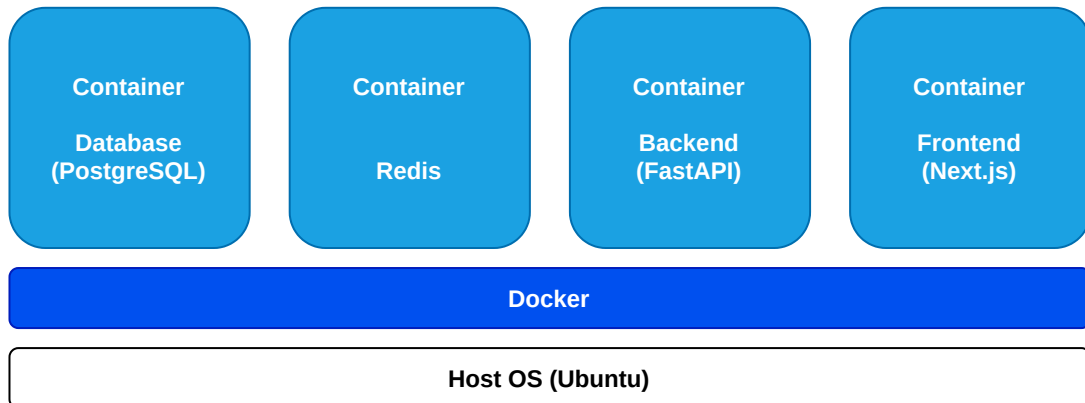
Integration tests can be run using `yarn cypress:headless` or with `yarn cypress` if you want a gui with more details.

6. Architecture and Design

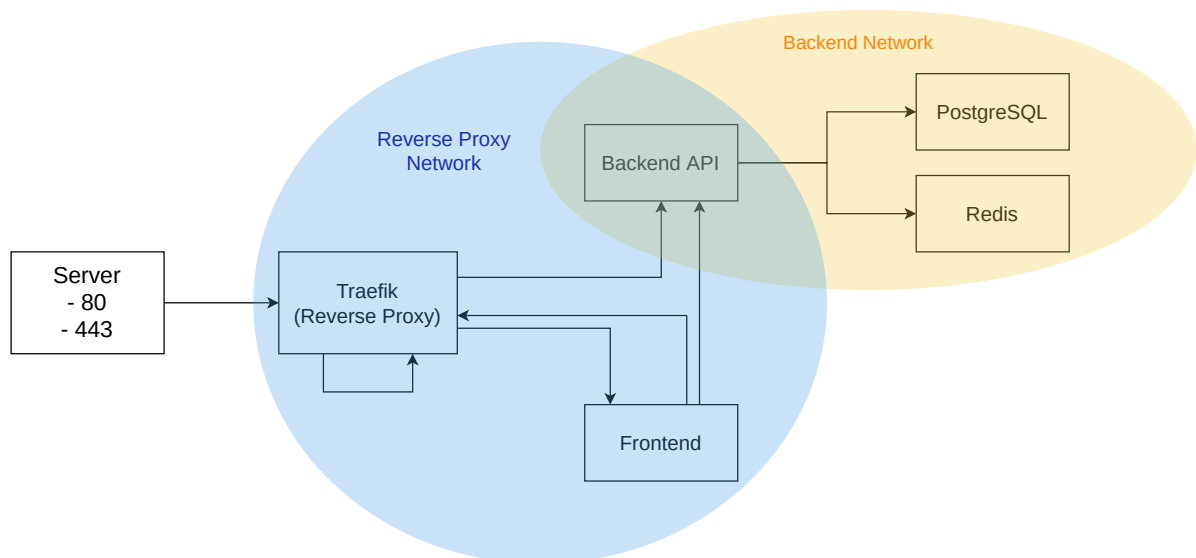
6.1 Architecture and Design

Now we're going to describe the architecture and design of the OSOC selection tool.

In order to deploy everything, we use Docker. Using containers allows us to have an easily reproducible deployment. We have a separate container for the database (PostgreSQL), the Redis, the backend (FastAPI) and the frontend (Next.js). This allows us to develop and scale each part of our application separately.



The design of our application is a very standard client-server architecture. A frontend is used to access a backend, both of which are deployed on a server (as shown above). The frontend is accessed through a reverse proxy. This is provided through Traefik. Traefik also provides a dashboard that allows us to monitor all the services.



The backend can then access data, which is stored using PostgreSQL and Redis. Redis has built-in features to let data automatically expire and is thus used for user invites, password resets and revokable tokens. PostgreSQL is used for everything else. This way the frontend doesn't have direct access to the database, all operations on the database are defined and controlled by the backend.

Something noticable is that the frontend can send back to the reverse proxy (which will only go to the backend) but it can also send requests straight to the backend. This is because of Next.js. Next.js offers multiple ways to render pages, one is just normal client side rendering and the other we use is server side rendering. With client side rendering the requests will need to go through the proxy (Traefik). But when server side rendering is used for a page (there aren't many pages that use this since almost everything needs to update at real time), the request goes straight from the frontend to the backend, thereby skipping the proxy.

6.2. Directory structure

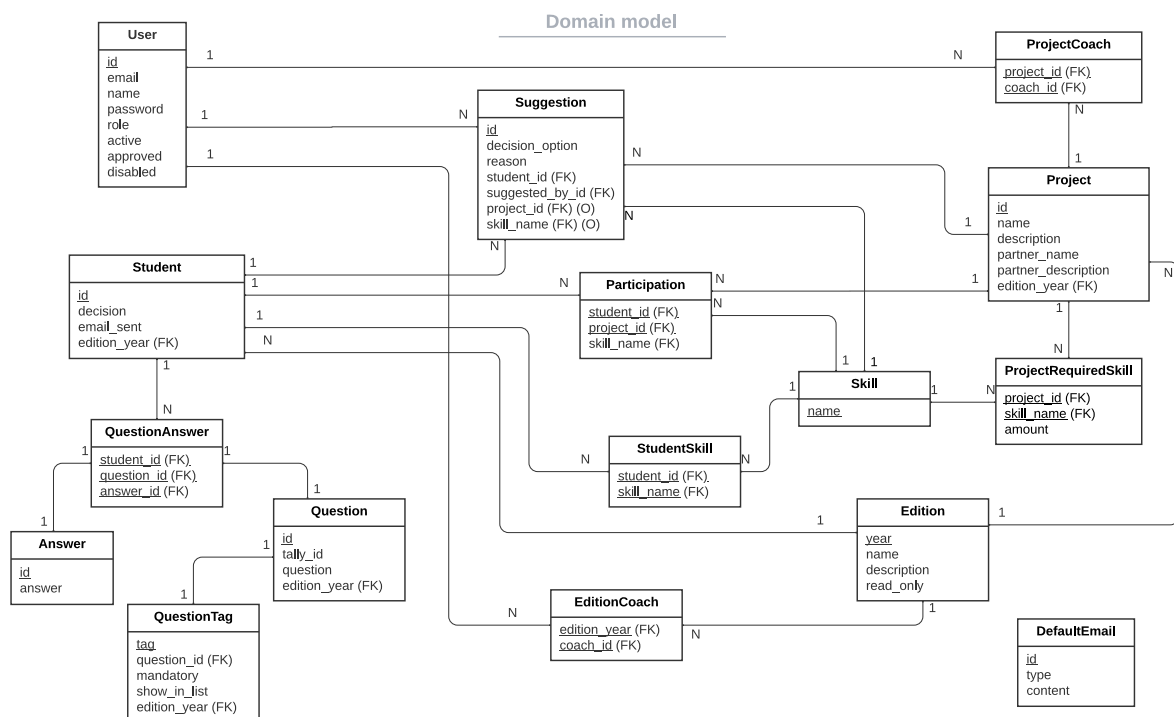
Now follows a description of the directory structure we use

OSOC-selection-tool/	root of the repository
├─ LICENSE	license (MIT)
├─ docker-compose.yml	docker-compose file for local deployment
with env variables	
├─ deploy-docker-compose.yml	docker-compose file for deployment on our server
├─ test-docker-compose.yml	docker-compose file to run tests
├─ backend	directory containing the backend of the application (the API build with FastAPI)
└─ requirements.txt	requirements (packages needed to install, the docker will install these)
└─ Dockerfile	dockerfile for the API (uses requirements.txt)
└─ TestDockerfile	dockerfile to run tests
└─ app	directory with the code for the API
├─ api.py	starts up the API
├─ config.py	configures the urls
├─ crud.py	operations that the API makes to the database
├─ database.py	code to start & connect to the database (PostgreSQL and Redis)
├─ exceptions	directory containing all exceptions that can be thrown
├─ models	directory containing the database models
├─ routers	directory containing all the routing functionality, this directory handles all API calls
├─ tests	directory containing the tests for the API
└─ utils	directory containing the utils for the API
├─ data	directory where PostgreSQL and Redis store their data
└─ postgres	PostgreSQL data
└─ redis	Redis data
├─ frontend_nextjs	directory containing the frontend of the application (Next.js)
└─ Dockerfile	dockerfile for the frontend
└─ Components	directory containing all components used to build pages
└─ pages	directory containing all pages (if a page has the name "settings.js" then "/settings" will be a route)
├─ public	
└─ assets	directory containing all images used in the frontend
└─ styles	directory containing all css files for the frontend

└─ tests	directory containing the tests for the
frontend	
└─ utils	directory containing the utils for the
frontend	
└─ ApiClient.js	code that handles requests to the api
└─ logger.js	code that handles logs, logs will only be
	printed when NODE_ENV="development" has been set (environment variable)
└─ WindowDimensions.js	
└─ info	directory containing information about the
project/application	
└─ domain_model.svg	the domain model
└─ architecture_and_design	images about the architecture and the
design of the application	
└─ use-cases	the usecases of the application
└─ interaction_diagrams	diagrams explaining how certain
interactions work	
└─ screenshots	screenshot of the frontend, used in user
manual to to explain how to to certain tasks	
└─ user_manual.md	the user manual

7. Description of the main product elements

7.1. Domain model



Now follows a description of each element in the domain model.

7.1.1. Edition

An edition of Open Summer Of Code.

attributes: \

year: the year in which the edition took place, primary key \

name: the name of the edition. (like "OSOC 2022 edition") \

Description: the description of the edition. (like startdate and enddate, or brief overview of the

partners, ...) \

read_only: whether the edition is read_only

7.1.2. User

A user is a person who has an account on the tool, or is in the progress of getting an account.

attributes: \

id: the id of the user, primary key \

email: the email address of the user, unique \

name: the name of the user, two or more users with the same name may exist \

password: the password of the user, this will be saved in the database, hashed and salted for security reasons \

role: there are 2 types of roles: coaches and admins, admins can do anything any coach can do and more \

active, approved, disabled: a user can either be active, approved, disabled or nothing \

satus: nothing (all of the above are set to false): the user exists \

status: active: the user has set a name and password by using the invite link \

status: approved: the user was active, and an admin has approved the user (the user now has acces to the tool) \

status: disabled: the user has been deleted from the tool, this is a soft delete so that we can still see actions the user made in the (previous) edition

7.1.3. EditionCoach

A coach (user) that belongs to an edition.

attributes: \

edition_year (FK): the year of the edition, primary key \

coach_id (FK): the id of the coach, primary key

7.1.4 Student

A student, a representation of the tally form a student filled out with the info about them.

attributes: \

id: the id of the student, primary key \

decision: the decision (yes/maybe/no) that an admin gave to the student \

email_sent: whether an email has been sent \

edition_year (FK): the year of the edition when the student filled in the form

7.1.5. QuestionAnswer

A combination of a question and an answer that a student made.

attributes: \

student_id (FK): the id of the student, primary key \

question_id (FK): the id of the question, primary key \

answer_id (FK): the id of the answer, primary key

7.1.6. Answer

An anwser to a question of the tally form.

attributes: \

id: the id of the answer, primary key \

answer: the answer itself

7.1.7. Question

A question from the tally form.

attributes: \

id: the id of the question, only used internally and unique for each question \

tally_id: the id of the question assigned by tally \

question: the question itself \

edition_year (FK): the edition year in which the question was asked

7.1.8. QuestionTag

A tag for a question from the tally form. The tag gives a meaning to the question, for example the question "What is your first name?" can be linked to the tag "first name", this way the tool knows that the answer to that question is the first name of the student.

attributes: \

tag: the tag (the meaning) of the question, primary key \

question_id (FK): the id of the question for which the tag is \

mandatory: whether the tag is mandatory to be defined in every edition \

show_in_list: whether the tag (and answer) should be visible in the list of students \

edition_year (FK): the year of the edition the tag belongs to

7.1.9. Skill

A skill like ux-designer, backend-developer, communications-manager.

attributes: \

name: the name of the skill, primary key (like ux-designer, backend developer, ...)

7.1.10. StudentSkill

A student that has a specific skill.

attributes: \

student_id (FK): the id of the student who has the skill, primary key \

skill_name (FK): the name of the skill, primary key

7.1.11. Project

Represents a project that will be made by OSOC students for a partner. A project will also contain the information of that partner.

attributes: \

id: the id of the project, primary key \

name: the name of the project \

description: the description of the project \

partner_name: the name of the partner \

partner_description: additional information about the partner \

edition_year (FK): the year of the edition the project belongs to

7.1.12. ProjectRequiredSkill

A skill that a project needs, and how many times it needs a student that has that skill.

attributes: \

project_id: the id of the project, primary key, foreign key \

skill_name (FK): the name of the skill that is required, primary key \

amount: the amount of students with that skill that are required

7.1.13. ProjectCoach

A coach that coaches for a project.

attributes: \

project_id (FK): the id of the project, primary key \

coach_id (FK): the id of the coach (user), primary key

7.1.14. Suggestion

A suggestion that a coach makes about a student, or a decision from an administrator.

attributes: \

id: the id of a suggestion, only used internally and unique for each student \

decision_option: Yes / No / Maybe \

reason: the reason that the coach/administrator gives with the suggestion \

student_id (FK): the id of the student for which the suggestion made \

suggested_by_id (FK): the id of the coach (user) who made the suggestion \

project_id (FK): the id of the project for which is suggested, optional attribute \

skill_name (FK): the name of the skill which is suggested, optional attribute

7.1.15. Participation

Which student will take on what role in what project.

attributes defining a relationship: \

student_id (FK): the id of the student who will participate \

project_id (FK): the id of the project in which the student will participate \

skill_name (FK): the name of the skill (thus the skill the student has and will use) the student will take on in the project

7.1.16. DefaultEmail

Default emails are stored in the database.

attributes: \

id: the id of a default email, primary key \

type: the type of the default email, for example yes, maybe, no \

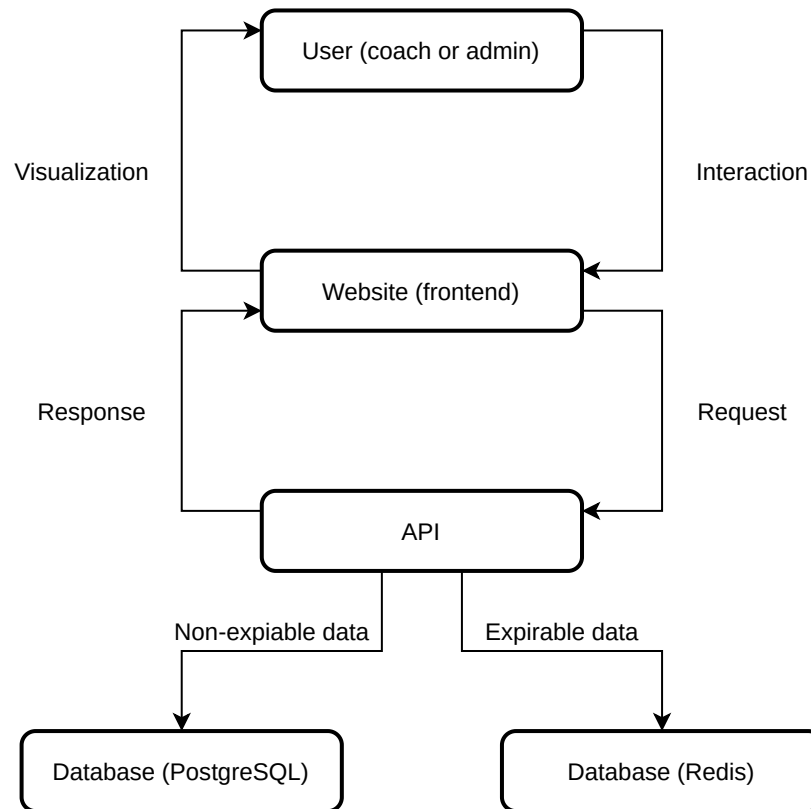
content: the content of the default email

8. Interactions and use cases

8.1. Interaction diagram

All actions a user can do on our application, can be described by one diagram (shown below). It comes down to this: a user does an interaction with the website (frontend), this interaction is either immediately handled by the frontend (for example typing a letter in a text field) and is thus immediately visualized. Or the interaction transforms into a request to the API. The API will then receive and process the request, which might use some data from either of both databases, and

respond with either a successful response, or an exception. The frontend will receive this response, and react upon it (visualize it to the user).



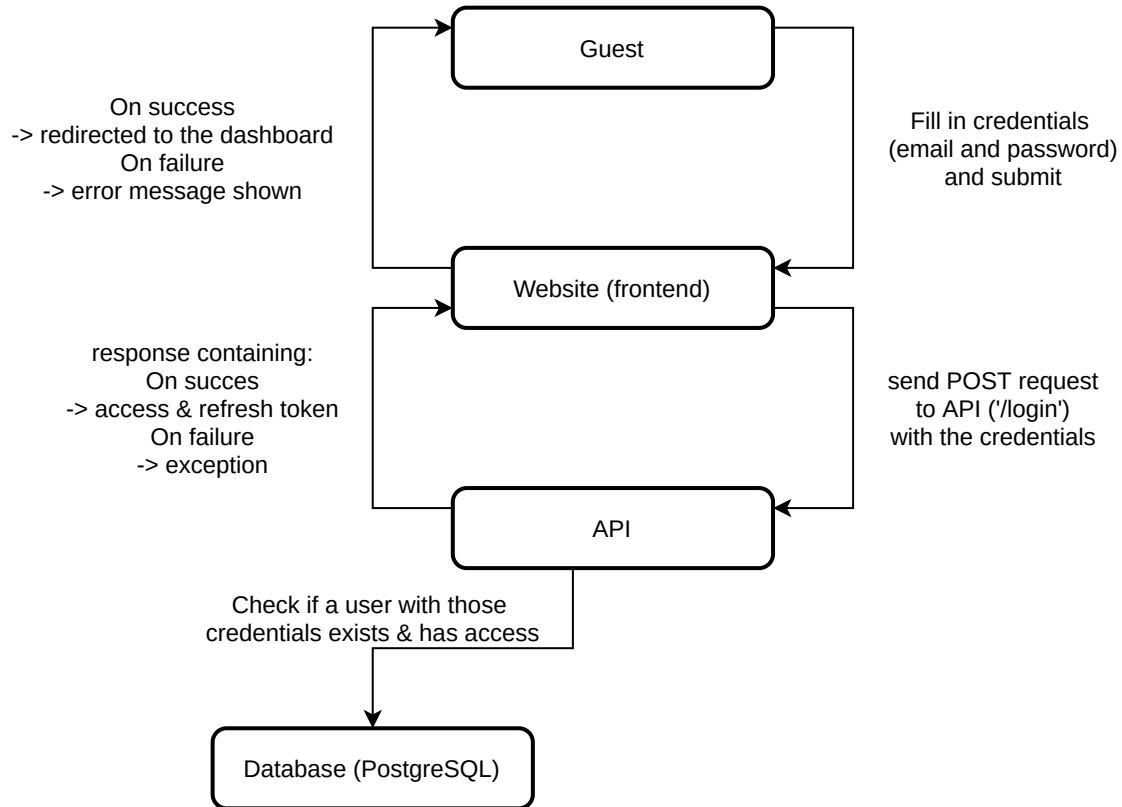
Every interaction described below will use some parts (or all parts) of this diagram. We won't repeat this diagram for every interaction, but we'll show you an example for the log in interaction described in the next section.

8.2. Logging in

When you first visit the application, you have to log in. This requires the guest to type in his credentials (email address and password) and click on the login button. The login screen looks like this:

The image shows the Open Summer of Code logo on the left, which consists of a stylized 'S' and 'C' in blue and green, with a yellow circle. To the right is a login form. The form has a title 'Please provide login credentials to proceed'. It contains two input fields: 'Email address' and 'Password'. Below these fields is a dark blue button labeled 'LOG IN'. At the bottom of the form is a link that says 'Forgot your password?'.

The application (or website, or frontend) will then send a POST request to the API (backend), which will validate if you've given the email address of a user that exists, and that the passwords match. If so the backend also checks whether the user is allowed access (for example an admin might not have approved the user yet). If something went wrong then the API will respond with an error, which the guest will see on the login webpage. If on the other hand the login was succesful, then the guest will become a user (Coach or Admin) and will be redirected to the dashboard (main-page or index) of the application. The interaction is also described in the diagram below. As you can see we didn't need the Redis for this interaction.



8.3. Navigating the application

The navigation bar, probably the most important part of any website. If you're logged in, the navigation bar will always be shown at the top of the page, no matter what page you're currently viewing. This component is used to switch between pages, for example if you click on the `select-students` text (this is a link), you will be redirected to the select-students page. The same goes for `projects` which bring you to the projects page and for `settings` which brings you to the settings page. If you wish to go back to the `dashboard` (the main page, the page you view after having logged in), you can click on the image / logo all the way on the left. If you wish to log out, you can simply click on the `Log out` text all the way on the right. Keep in mind that when you're logged out you won't see the navigation bar, as you're not allowed to navigate the application (you must be logged in for that).



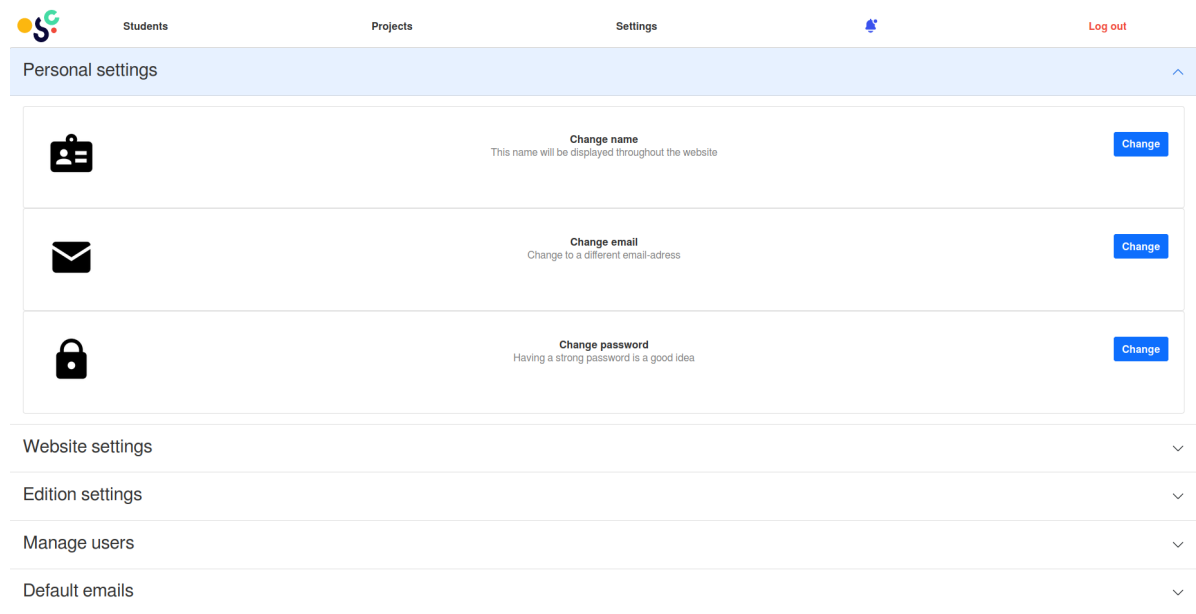
Clicking on any of these links will require some requests to the API as new data needs to be loaded.

8.4. Configuring settings

The settings page, the place to configure (almost) everything! The page consists of multiple categories you can click on and will then open up to reveal the settings for that category.

8.4.1. Personal settings

By default, when you arrive at the settings page, the category `personal settings` will be revealed, in here you can change you personal information like your name, email address and password. For each of these sub-categories you can find a button on the right that says "change" which opens up a window where you can change the chosen setting.





The screenshot shows the top navigation bar with a logo on the left and links for 'Students', 'Projects', 'Settings', a notification bell, and 'Log out'. The 'Settings' link is active. Below the navigation bar is a light blue header for 'Personal settings' with an upward arrow. The main content area contains three settings cards: 'Change name' with a person icon and a 'Change' button, 'Change email' with an envelope icon and a 'Change' button, and 'Change password' with a lock icon and a 'Change' button. Below these cards is a list of other settings categories: 'Website settings', 'Edition settings', 'Manage users', and 'Default emails', each with a downward arrow.

8.4.2. Edition settings

You'll only see these settings if you are an admin.

If you click on the `Edition settings` you'll see the title of the current (selected) edition, with underneath the description. Below that you'll see 3 more settings sub-categories that can be clicked on to open. \

`Change edition` shows a dropdown where you can select another edition to view, this way you can see the students & projects from another edition (keep in mind that old editions will be read-only).


[Students](#)
[Projects](#)
[Settings](#)

[Log out](#)

[Personal settings](#)

[Website settings](#)

[Edition settings](#)

2022 Summer Fest

No description available

[Edit](#)

[Choose a different edition](#)

Changing this will affect the whole site.

[2022 Summer Fest](#)

[Question-tags](#)

[Create new edition](#)

[Manage users](#)

[Default emails](#)

If you click on **Question tags** you'll see a list of the question tags for this edition. In here you can change the name of the tag (if the tag is not mandatory) and the question that the tag corresponds to (click the pencil button on the right). You can also check the checkbox to show the tag and answer to the question in the list of students on the students tab and projects tab. If you think a tag is unnecessary, you can delete it if the tag isn't mandatory.











[Edition settings](#)

2022 Summer Fest

No description available

[Change edition](#)

[Question Tags](#)

Name	Question	Show in student list	
email	Your email address		
first language	What language are you most fluent in?	<input type="checkbox"/>	 
first name	What is your first name?		
last name	What is your last name?		
level of english	How would you rate your English	<input type="checkbox"/>	 
phone number	Phone number	<input type="checkbox"/>	 
studies	What do/did you study?	<input type="checkbox"/>	 
type of degree	What kind of diploma are you currently going for?	<input type="checkbox"/>	 

[New question tag](#)

[Create new edition](#)

If you click on **Create new edition** you'll see a form that you can fill in, in order to create the new edition. You'll need to provide the year, name and description of the new edition, and then press the "create edition" button below.

8.4.3. Question-tags

In this section we'll explain a bit further the usage of the question-tags. When a student fills out the tally-form, the questions and answers get send to our application. In our application we needed a way to know what meaning a question has. For example the questions "What's you name?", "First name?" or "What is your first name?" are all different questions, but they all have the name of the student as an answer, but how can we link more difficult questions to such an easy term like "name". That's exactly what question-tags are for. In the settings page under edition settings, you'll find **Question-tags**, where you can configure them. So basically all you need to do is connect a question to a tag, hence the name question-tags.


What are they used for? \

Well you select students based on different things, and these "things" might differ from year to year, For example you had a question what they study last year, but you wanted to add a question how far along they are in their studies for this year's edition. With question-tags everything becomes a lot more customizable. And also as we don't want to show all info of every student in the list of students, you would rather see the information that you value the most (which might differ from year to year). In the settings of question-tags, you can select for each question-tag whether you want to see that piece of information for each student in the list of students.

We'll give you an example, right now the list of students is very empty, for every student only their name and the decision is shown.

Search students		×	Q	Sort by: Name A-Z
Anne Hayes	No practical problems	Suggestions: 1 0 0		FRONT-END DEVELOPER STORYTELLER
Charles Marshall	No practical problems	Suggestions: 0 0 0		COPYWRITER VIDEO EDITOR
Charles Paige	No practical problems	Suggestions: 4 6 8		FRONT-END DEVELOPER PHOTOGRAPHER
Eva Andrews	No practical problems	Suggestions: 0 0 0		FRONT-END DEVELOPER VIDEO EDITOR
Eva Clark	No practical problems	Suggestions: 0 0 0		MARKETER PHOTOGRAPHER

Let's say we value the language they're most fluent in a lot. We go to settings, edition setting, and open the question-tags tab. In here we add a new question-tag with the question being `What language are you most fluent in?` and the tag being `first language`, and click the save icon on the right. Now we also check the checkbox "show in students list".

Question tags		
Name	Question	Show in student list
email	Your email address	
first language	What language are you most fluent in?	<input checked="" type="checkbox"/>  
first name	What is your first name?	
last name	What is your last name?	

Now when we look at the students list, every student will have `first language: English` or whatever language they answered to that question.

×
Q
Sort by: Name A-Z

Anne Hayes
No practical problems

first language **english**
Decision **No**

Suggestions: 1 0 0
FRONT-END DEVELOPER STORYTELLER

Charles Marshall
No practical problems

first language **german**
Decision **Yes**

Suggestions: 0 0 0
COPYWRITER VIDEO EDITOR

Charles Paige
No practical problems

first language **german**
Decision **No**

Suggestions: 4 6 8
FRONT-END DEVELOPER PHOTOGRAPHER

Eva Andrews
No practical problems

first language **dutch**
Decision **Yes**

Suggestions: 0 0 0
FRONT-END DEVELOPER VIDEO EDITOR

Eva Clark
No practical problems

first language **german**
Decision **Maybe**

Suggestions: 0 0 0
MARKETER PHOTOGRAPHER

8.4.4. Managing users

You'll only see these settings if you are an admin.

Below the edition settings you can find the `Manage users` settings. If you click on that, you'll see two main items, "Invite new users" and "Manage users".

Edition settings

Manage users

Invite new users

Manage users

☒ All users
 ☐ Approved users
 ☐ Not yet approved users
 ☐ Not yet active users

e-mailadres

account status

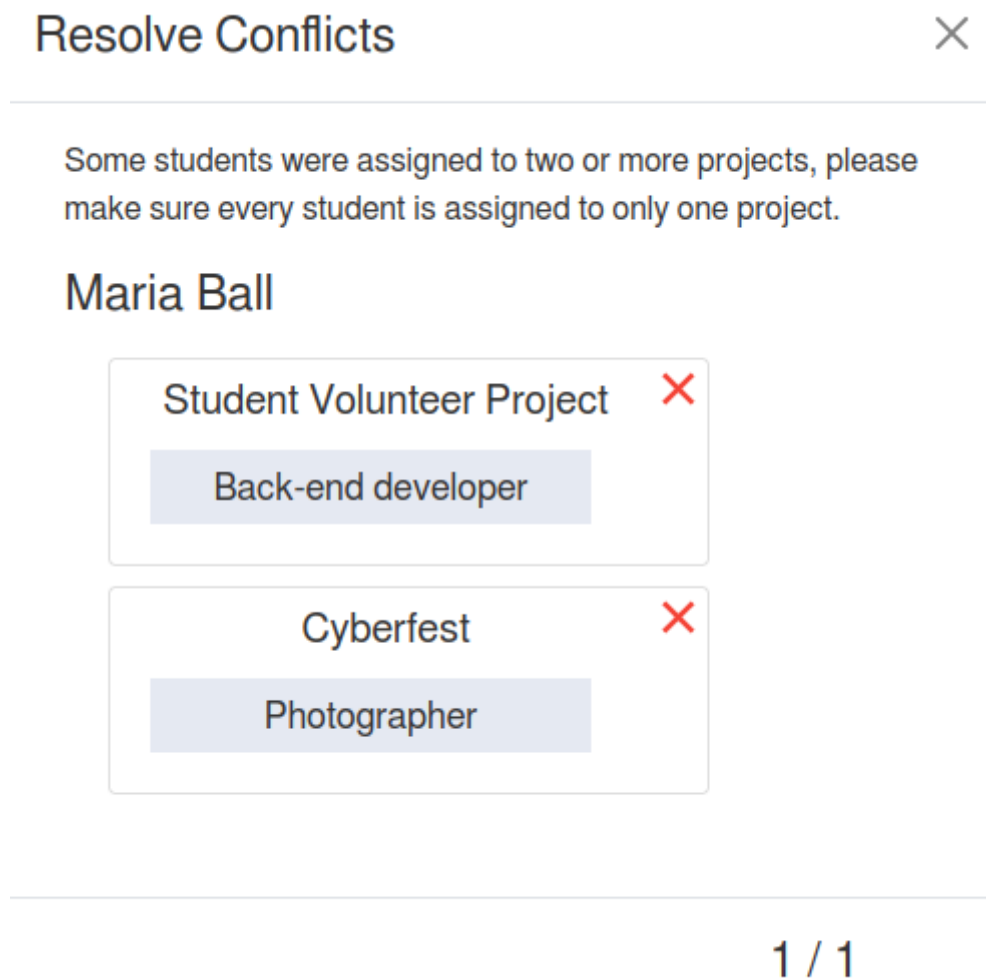
Ava Vaughan	ava.vaughan@yahoo.com	Coach	Revoke access
user_unactivated_coach	user_unactivated_coach@test.be	Not yet active	Revoke access
user_admin	user_admin@test.be	Admin	
Charles Davidson	charles.davidson@gmail.com	Approve user	Revoke access

The `Invite users` can be clicked on, if you do so you'll see a popup window where you can send people an invitation, so they can join the application. You simply type the email addresses of the people you want to invite in the text-area (every email address on a new line), and click the send invites button. You'll see the text change when the emails are sent. Notice that you can type or copy-and-paste a list of email addresses in this text-area, please make sure that every email address is on a new line.

project. The `New project` button redirects to another screen where you can create a new project. In the student list all projects are shown with a project card.

8.4.5.1 Resolving conflicts


When you click the `conflicts` button, you will see this window.



This window shows a student with all the projects they are linked to. By clicking on the red cross of a participation, you can delete it and solve the conflicts. If there are multiple conflicts, you can scroll through them with `next` and `previous` buttons.

8.4.5.2 Create a new project


When you click the `new project` button, you will see this window.



Students

Projects

Settings



Log out

←

New project

Project name:

Project name

Partner name:

Partner name

About partner:

Short bio about the partner, website, ...

About project:

Short explanation about the project, what it does, how it works, ...

Required skills:

no skill selected

1

×


+

Create new project

Here you can fill in all the information about the new project you want to make. On the bottom (under subtitle **Required skills**) you can add different skills by pushing the **+** button. With the dropdown you can select which skill you need. You can select the needed amount in the box next to the dropdown. Deleting the skill is possible with the red cross next to the skill selector. To save your newly created project, press the **Create new project** button.

8.4.5.3 Add a student to a project


If you want to add a student to a project, you must click on the student you want to add and on the project you want to add it to. When both these items are selected, the screen will look like this:



Students

Projects

Settings



Log out

Filters

Reset filters

☐ Only alumni
☐ Only student coach volunteers
☐ Only unmatched students

Skills

Search skills

☐ Front-end developer
☐ Back-end developer
☐ UX / UI designer
☐ Graphic designer
☐ Business Modeller
[More](#)

Decision

☐ Yes
☐ Maybe
☐ No
☐ Undecided

Own Suggestion

☐ No suggestion
☐ Yes
☐ Maybe
☐ No

Search students

×

Sort by: Name A-Z

Andrea Martinez

Project: None

Decision: Yes

GRAPHIC DESIGNER

VIDEO EDITOR

Anne Andrews

Project: None

Decision: Yes

FRONT-END DEVELOPER

UX / UI DESIGNER

Anne Avery

Project: None

Decision: No

UX / UI DESIGNER

STORYTELLER

Anne Ball

Project: None

Decision: No

MARKETER

VIDEO EDITOR

Anne Gray

Project: None

Decision: Maybe

STORYTELLER

COPYWRITER

Anne Morrison

Project: None

Decision: No

STORYTELLER

COPYWRITER

Search projects

×

People needed

conflicts 0

New project

Student Volunteer Project

UGent

Required skills

4X Front-end developer

1X Back-end developer

3X UX / UI designer

2X Graphic designer

2X Business Modeller

1X Storyteller

3X Marketer

1X Copywriter

2X Video editor

2X Photographer

Assigned students

Maria Ball

Back-end developer

Blake Henderson

Back-end developer

Megan Vaughan

Graphic designer

Jonathan Avery

Business Modeller

Melanie Avery

Business Modeller

Anne Roberts

To continue adding the selected student to the selected project, click the green arrow in the middle of the screen. A window like this will appear:

Add Andrea Martinez to Student Volunteer Project ×

Why are you making this decision?

A reason is not required, but will open up discussion and help us and your fellow coaches to understand.

For which skill requirement do you want to add Andrea Martinez to the project?

Add student to project

In the upper text field you can write a reason why you want to add the selected student to the selected project, but it is not required. In the dropdown you can select the required skill that the student will fill in the project.

8.4.6 Students

When you click on **Students** in the navigation bar, you will see the following screen.

The screenshot displays the 'Students' tab in a web application. The top navigation bar includes 'Students', 'Projects', 'Settings', and 'Log out'. The left sidebar contains filters for 'Filters' (Only alumni, Only student coach volunteers, Only unmatched students), 'Skills' (Front-end developer, Back-end developer, UX/UI designer, Graphic designer, Business Modeller), 'Decision' (Yes, Maybe, No, Undecided), and 'Own Suggestion' (No suggestion, Yes, Maybe, No). The main content area shows a list of students with a search bar and a 'Reset filters' button. The list includes:

- Andrea Martinez (Decision: Yes, Skills: GRAPHIC DESIGNER, VIDEO EDITOR)
- Anne Andrews (Decision: Yes, Skills: FRONT-END DEVELOPER, UX/UI DESIGNER)
- Anne Avery (Decision: No, Skills: UX/UI DESIGNER, STORYTELLER)
- Anne Ball (Decision: No, Skills: MARKETER, VIDEO EDITOR)
- Anne Gray (Decision: Maybe, Skills: STORYTELLER, COPYWRITER)
- Anne Morrison (Decision: No, Skills: STORYTELLER, COPYWRITER)
- Anne Morrison (Decision: Undecided, Skills: BUSINESS MODELLER, BACK-END DEVELOPER)
- Anne Roberts (Decision: Undecided, Skills: None)

Each student entry shows a 'Suggestions' bar with three colored segments (green, yellow, red) and a 'send emails' button at the bottom.

In this tab, you can an overview of the students and filter them, order them, watch details and send emails.

8.4.6.1 Filter students

On the left side of the screen, you can see the filters.

On the top, there are some general filters. The **only alumni** filter will only show students who have participated to osoc before. The **only student coach volunteers** filter will only show students who volunteered to be a student coach. The **only unmatched students** filter will only show students who are not matched to a project yet.

Under the general filters you see the skills filter. You can search skills in the searchbar and choose how many skills you want to see with the **More** or **Less** buttons. If you select skills in this filters, you will see only student who have at least one of these selected skills.

Under the skills filter you see the decision filter. If you select decisions in this filter, only students whose decision match the selected decisions will be shown.

On the bottom you see the **Own suggestion** filter. Here you can filter the students on the suggestion you did about them. If you enable **yes**, you will only see students who you suggested **yes** for.

8.4.6.2 Search/order students

On the top of the screen, there is a searchbar to search through the students. Next to the searchbar, there is a reset button to make the searchbar empty. On the right, there is a dropdown to change the order of the student list. You can order the students by their name (ascending or descending) and on the newest/oldest student. The newest student is the student who filled in the tally form the most recently.

8.4.6.3 Student details

If you click on a student in the student list, you will see a screen like this.

The screenshot shows the 'Students' section of a web application. On the left, there are filters for 'Filters' (Only alumni, Only student coach volunteers, Only unmatched students), 'Skills' (Front-end developer, Back-end developer, UX / UI designer, Graphic designer, Business Modeller), 'Decision' (Yes, Maybe, No, Undecided), and 'Own Suggestion' (No suggestion, Yes, Maybe, No). The main area displays a list of students with their names, photos, and suggestions. The student 'Andrea Martinez' is highlighted. On the right, the details for 'Andrea Martinez' are shown, including their email, phone number, first language, level of english, type of degree, studies, project, and decision. There are buttons for 'Yes', 'Maybe', 'No', 'Send email', and 'Confirm'.

On the right side of the screen, you can see the details about this student. In this screen, you can make suggestion about this student with the **Yes**, **Maybe** and **No** buttons. If you are an administrator, you can also send an email to the student with the **Send email** button. As an administrator it is also possible to make a decision about this student or to delete the student. Deleting the student is done by clicking the red garbage can next to the name of the student. Making a decision is possible by first editing the dropdown on the right to the desired decision, than you confirm the decision by clicking on **Confirm**.

You can close the student details by clicking the cross in the top right corner of the student details window.

8.4.6.4 Send emails

In the `students` tab, you can send emails to students in bulk if you are an administrator. You start by opening the `send emails` popover. If this is opened, you can select students to send an email to by clicking them in the students list. Your screen will now look like this:



By clicking the `Select all` button you can select all the students in the student list. By clicking the `Send emails` button all the selected students will receive a default email about their decision.

8.5. Adding new users

We've chosen not to go with a classic register and login type of access-control for the application. Instead, we work with an invite-system, where an admin must invite new coaches. The invite process goes as follows.

Let's say Alice is an admin wishing to invite Bob. First Alice has to go to `settings` and then to `manage users`, where she clicks on the `Invite new users` button. In the popup window that showed up Alice types the `email address of Bob`, and clicks on `invite users`. Right now Bob will receive an email with a link he can click on. Bob will now be listed in manage users as unactivated. \

If Bob clicks on the link, he sees a page where he's asked to `fill out` his `name` (can be a nickname) and `password`, and click `submit`. Bob's account is now activated, he must now wait on Alice to approve him. \

Alice can go to the `manage users` again in settings, and for her convenience she clicks on the filter `not yet approved` to see a list of users that have activated their account and wish to be approved. In this filtered list she finds Bob (recognised by the email address since he could have typed any name he wants), and clicks on `approve` to give him access to the application. \ Now Bob has an approved account, and is able to log in.