

# PigeonHole UGent Submission Platform User Manual

SEL group 1 2024

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## Contents

### 1 Introduction

Welcome to the PigeonHole UGent Submission Platform User Manual. This manual provides instructions for users, teachers, and administrators on how to effectively use the platform, step by step. The platform is designed to streamline the process of submitting, reviewing, and providing feedback on projects. It seeks to create a middle ground between being easy to use but also providing the necessary features for automatic feedback on big projects. As for now, we only support UGent accounts to use the platform.

### 2 Getting Started

#### 2.1 Creating an Account

Users can only log in with their UGent account. If you do not have an account, please contact the administrator to create one for you.

#### 2.2 Logging In

When accessing the platform, students will be prompted to log in with their UGent account. UGent uses OAuth2 for authentication, so you will be redirected to the UGent login page. After logging in, you will be redirected back to the platform.

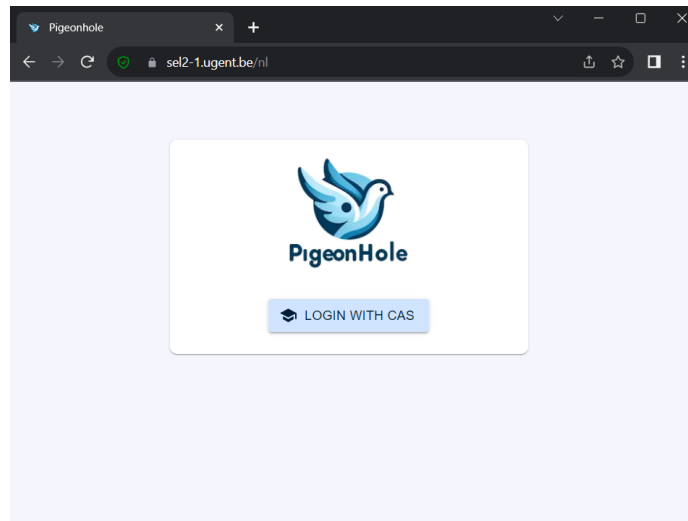


Figure 1: Login Screen

## 2.3 Changing language

We support English and Dutch. You can change in the small dropdown menu in the top right corner of every page's topbar.

## 2.4 Changing your profile picture

By clicking on your name in the top right corner of the page, you can navigate to your profile page. Here you can change your profile picture by clicking on the image, selecting a new image, and clicking save.

# 3 Student Section

## 3.1 View your courses

You can view all courses you are enrolled in and the projects that are available for submission central on the homepage. By clicking on a course title you can navigate to the course page, by clicking view project you can navigate to the project page.

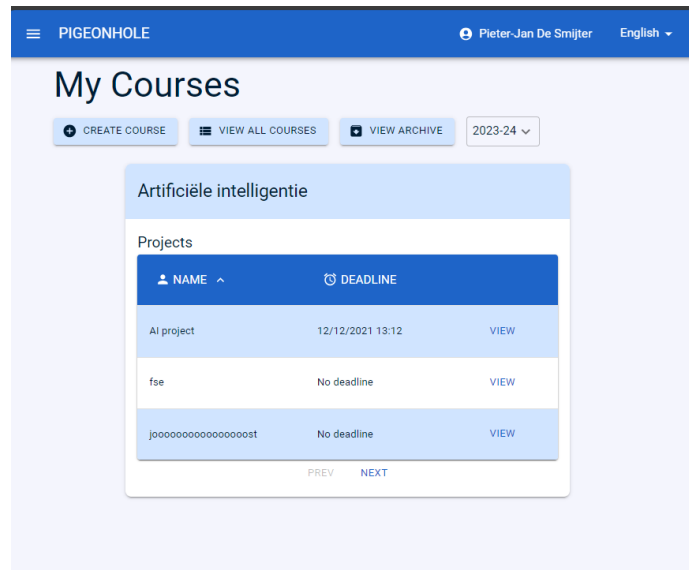


Figure 2: Home page

### 3.1.1 Archived courses

Courses of previous years are archived and can be viewed by clicking on the "Archived courses" button.

### 3.1.2 Filter courses

You can filter the courses by school year by clicking on the dropdown menu on the homepage, this will show a list of all archived courses.

### 3.1.3 View deadlines

When navigating to the calendar page from the home screen, you can see all deadlines of the projects you are enrolled in.

## Project calendar

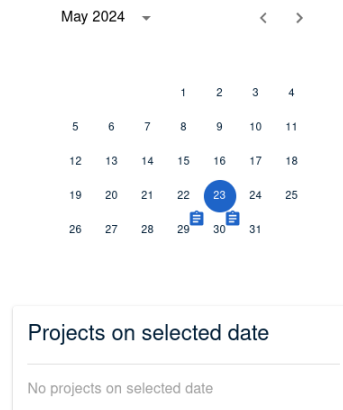


Figure 3: Calendar page

### 3.2 Join a new course

There are two types of courses: public and private. In case the course is private, you need to be invited by the teacher to join the course.

In case the course is public, you can either also be invited by the teacher or join the course yourself. To get a list of the public courses, click the "all open courses" button on the homepage. On the "all open courses" page, you can see all public courses. By clicking on the "Join" button, you can join the course.

PIGEONHOLE

Pieter-Jan De Smijter

English

← BACK TO HOME PAGE

All courses

Search course

NAME ^	Description	Open	Join/Leave
Artificiële intelligentie 6	Kennisgebaseerd redeneren, machinaal leren, heuristische zoekstrategieën, neurale netwerken en deep learning, natuurlijke taalverwerking	✓	LEAVE
Automaten, berekenbaarheid en complexiteit	Eindige automaten, formele talen, stapelautomaten, Turingmachines, berekenbaarheid, complexiteit	✓	JOIN
Software Engineering Lab 2	Projectwerk, vakoverschrijdend, groepswork, software-ontwikkelingspraktijk	✓	JOIN
Wiskundige modellering in de Ingenieurwetenschappen	Wiskundige basisconcepten, wiskundige modellen voor ingenieurstoepassingen, differentiaalvergelijkingen, integraaltransformaties, vectorcalculus	✓	JOIN
test	yo	✓	JOIN

PREV

NEXT

Figure 4: All open courses page

### 3.3 Get an overview of the projects of a course

On the home page, you can click on the course title to navigate to the course page. Here you can see all the projects of the course. You can see the status of the project and the deadline. On the home page, you can also click on the "View project" button to navigate to a specific project page. From the course page, you can also navigate to the project page by clicking on the "View project" button.

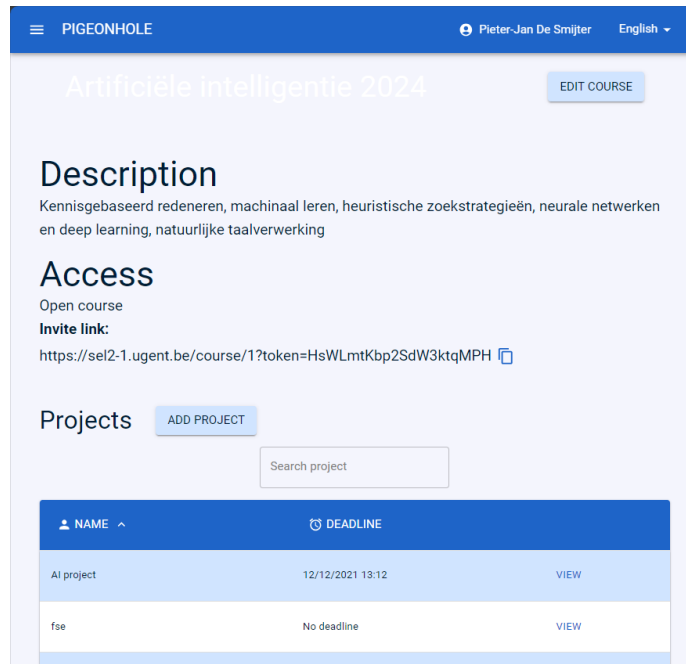


Figure 5: Course page

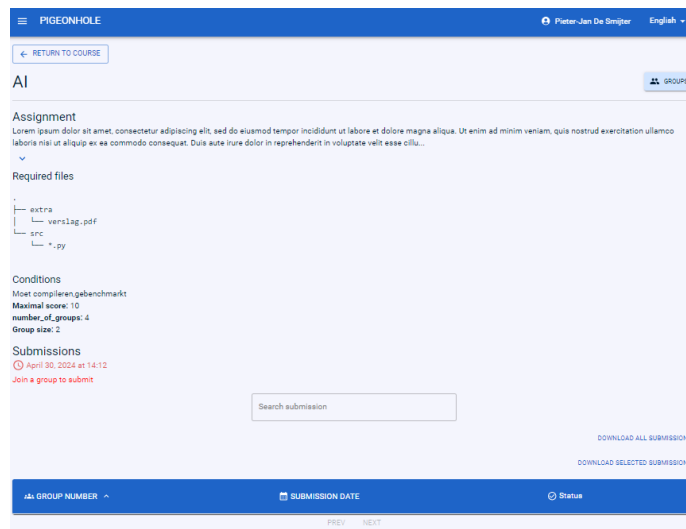


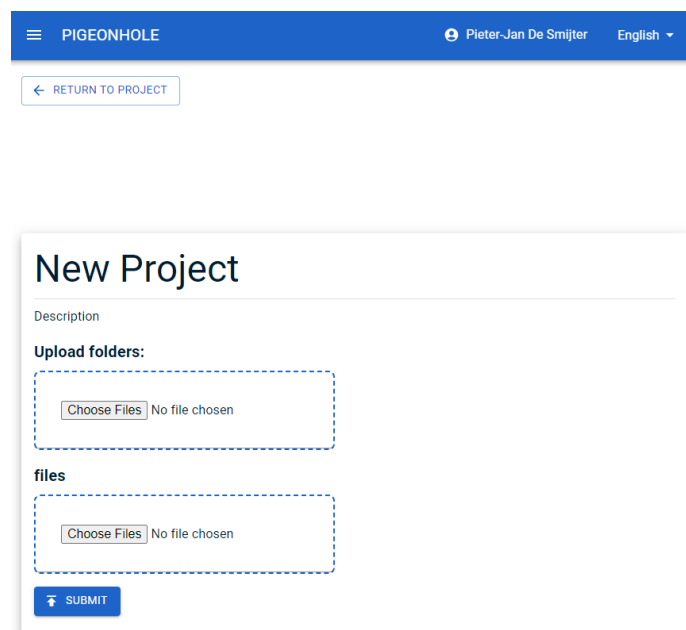
Figure 6: Project page

### 3.4 Joining a group for a project

If a project requires you to work in a group, you can view all groups by clicking on the "View groups" button on the project page. Here you can see all groups and their members. You can join a group by clicking on the "Join group" button.

### 3.5 Handing in a submission

If you want to hand in a submission, you can do this by clicking on the "Make a submission" button on the project page. On the submit page, you can upload your files and submit them by dragging them into the dropzone or by clicking on the dropzone and selecting the files.



The screenshot shows the 'New Project' submission interface. At the top is a blue header bar with a hamburger menu icon, the text 'PIGEONHOLE', a user profile icon with the name 'Pieter-Jan De Smijter', and a language dropdown set to 'English'. Below the header is a button labeled '← RETURN TO PROJECT'. The main content area is titled 'New Project' and contains a 'Description' field. Below this is an 'Upload folders:' section with a dashed blue border containing a 'Choose Files' button and the text 'No file chosen'. Underneath is a 'files' section, also with a dashed blue border, containing another 'Choose Files' button and the text 'No file chosen'. At the bottom of the form is a blue 'SUBMIT' button with an upward arrow icon.

Figure 7: Project page

### 3.6 Viewing feedback

The automatic feedback will be immediately available after submitting and can be viewed on the submit feedback page. Here you will be able to access the feedback of the file structure tests and advanced tests provided by the teacher.

### 3.7 View your past submissions

All your past submissions can be viewed on the project page.

## 4 Teacher Section

### 4.1 Creating a Course

Teachers can create a new course by clicking the "Create a course" button on the homepage. They can set the course name, description, and privacy settings. After creating the course, they can invite students to join with the link provided.



Figure 8: Create course page

### 4.2 Creating a Project

Teachers can create a new project by clicking the "Create a project" button on the course page. They can set the project name, description, and deadline. After creating the project, students can submit their work. Teachers can also set the automatic feedback settings for the project. This ranges from directory structure to advanced test on students code. Here, the teacher can also set the necessary group size and amount of groups for the project.



Figure 9: Create project page

The teacher can also set simple and advanced tests for the project. The simple tests are run on the file structure of the submission, while the advanced tests are run on the code itself. Even when tests fail, the submission will be saved and the teacher can still view the submission.

#### 4.2.1 A quick guide to the simple tests

You can add required files in the *required files* field on the add/edit project page. There are two options for adding files:

1. **Add a specific file: `/extra/report.pdf`**  
In this case, the file `report.pdf` is required in the directory `extra`.
2. **Add a file type: `src/*.py`**  
In this case, the only file type allowed in the `src` directory will be Python files.

There are also several options on how to use these files:

1. **Required files**  
Using a checkmark, the files will be required and submissions without these files will be considered invalid.
2. **Forbidden files**  
Using a crossmark, the files will be forbidden and submissions with these files will be considered invalid.

### 3. Maybe files

Using a question mark (?), the files will not be checked, and their presence will not affect the validity of the submission.

## 4.2.2 A quick guide to the advanced tests

For programming projects hosted on our platform that need to verify that the code compiles/runs/gives the correct output, we offer an advanced interface to run code on each submission the moment they're submitted using docker images.

The process of setting up the advanced tests is as follows:

### 1. Write your tests and package them in a Docker image

- We offer an example Docker image in `examples/advanced-evaluation`.
- Place the submission files in a volume under `/usr/src/submission`, output artifacts under `/usr/out/artifacts`, and determine correctness with the exit code (0 for success, other values for failure).

### 2. Push your image to our private Docker registry

- Use the command: `docker push sel2-1.ugent.be:2002/[YOUR_IMAGE_NAME]`

### 3. Configure your project on the site

- When creating or editing your project, fill in the Evaluation Docker image name in the text field and save.

You will be able to see the results and artifacts in the submission's page.

## 4.3 Viewing Submissions

Teachers can view all submissions for a project by clicking the "View submissions" button on the project page. They can see the submission status and download the files and automatic feedback.

## 4.4 Viewing Courses and Projects

Teachers can view all courses they are teaching on the homepage. By clicking on the course title, they can navigate to the course page. Here they can see all the projects of the course and the students enrolled in the course.

## 4.5 Viewing students

On the course page, teachers can see all students enrolled in the course. By clicking on the 'View students' button, they can navigate to the students' page. Here they can see all students.

#### **4.5.1 Removing a student from a course**

On the view student page, teachers can select and remove students from the course.

#### **4.6 Adding a co-teacher**

You can use the course link to invite a co-teacher to the course. The co-teacher will have the same rights as the teacher.

#### **4.7 Viewing co-teachers**

Similarly to students, teachers can see all co-teachers on the course page. By clicking on the 'View co-teachers' button, they can navigate to the co-teachers' page.

#### **4.8 Editing a course or project**

Teachers can edit a course or project by clicking on the 'Edit' button on the course or project page. Here they can change the course or project name, description, or deadline. The edit panel looks the same as the create panel, but with the fields filled in.

### **5 Admin Section**

Admins have the same functionality as teachers, but can also edit users. Admins have in the homepage a button to navigate to the user page. Here they can see all users and edit them.

#### **5.1 Editing or Deleting a user**

Admins can edit a user by clicking on the 'Edit' button on the user page. Here they can change the user's name, email, or role. They might also opt to delete the user by clicking the 'Delete' button on the user page.

### **6 A bit more information on the lists**

The lists of courses, projects, and submissions are paginated. You can navigate through the pages by clicking on the page number or the next/previous buttons. Most lists are also filterable by typing in the search bar, and you can sort the list by clicking on the column headers.

## 7 Troubleshooting

If you encounter any issues while using the platform, please contact our support team for assistance. You can reach us via email at 'axel.lorreyne@ugent.be'.

## 8 Conclusion

This user manual covers the basic functionality of the PigeonHole Project Submission Platform for students, teachers, and administrators. For technical information, you can view our GitHub repository at <https://github.com/SELab-2/UGent-1/>.