Inclusive Elements II WEB PORTAL

matrix

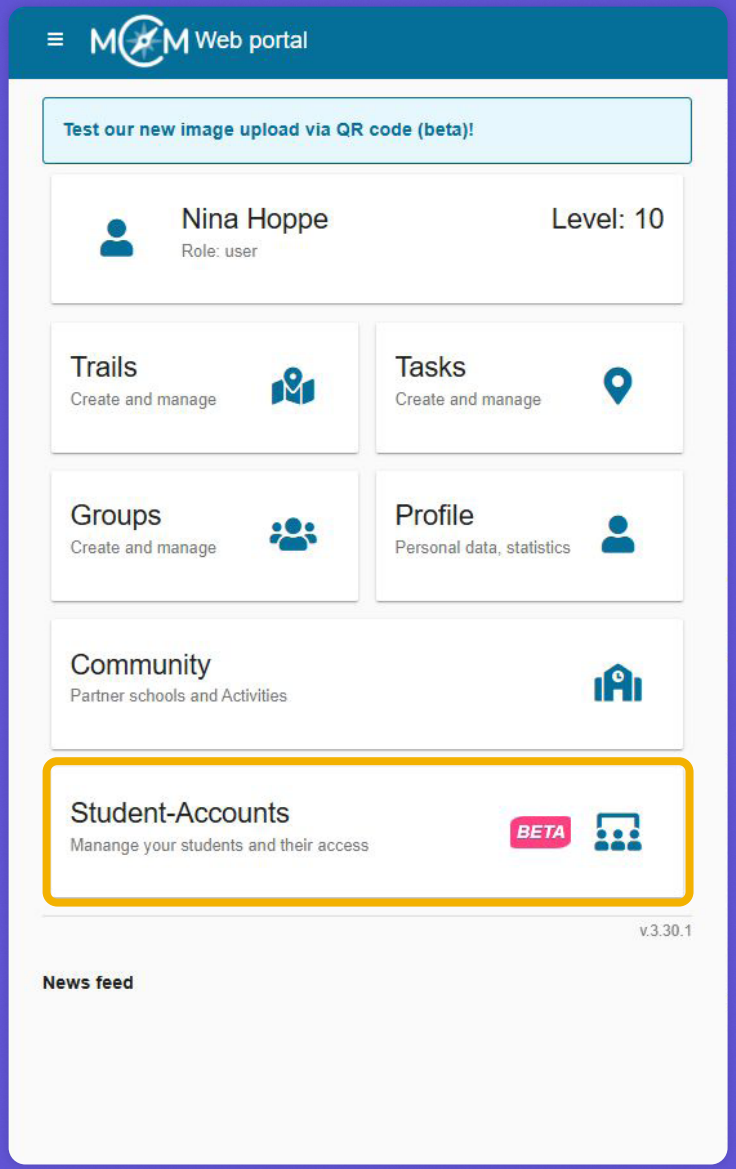
Co-funded by
the European Union

Student Account Feature

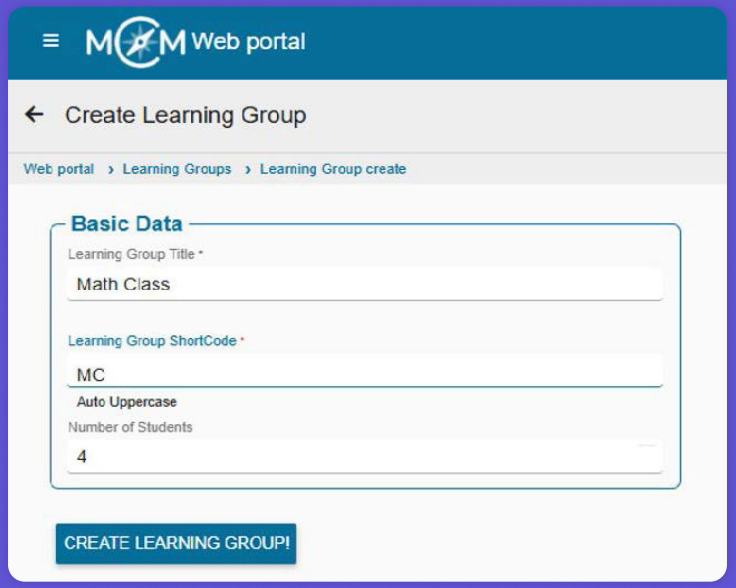
This feature allows students to create their own task in the MCM system

THE IDEA

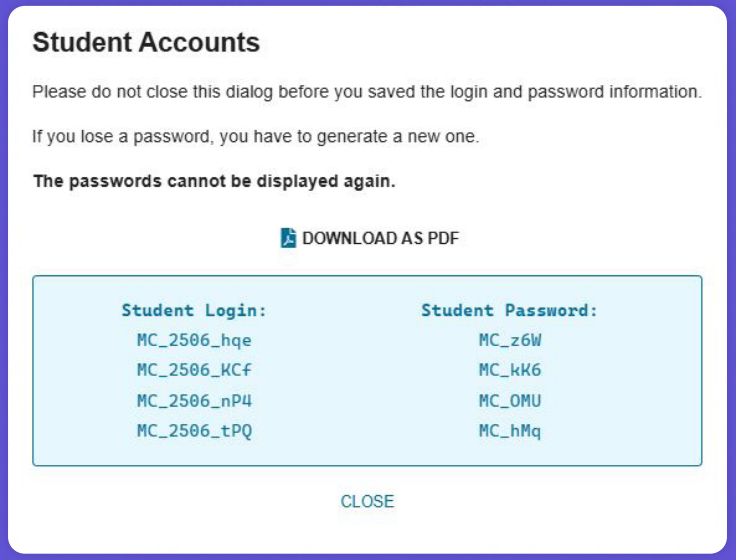
- No personal data on the side of the students is required
- Simplified task creation process in the web portal
- Teacher has control of the students' accounts and tasks
- Integration of a peer-review system



1

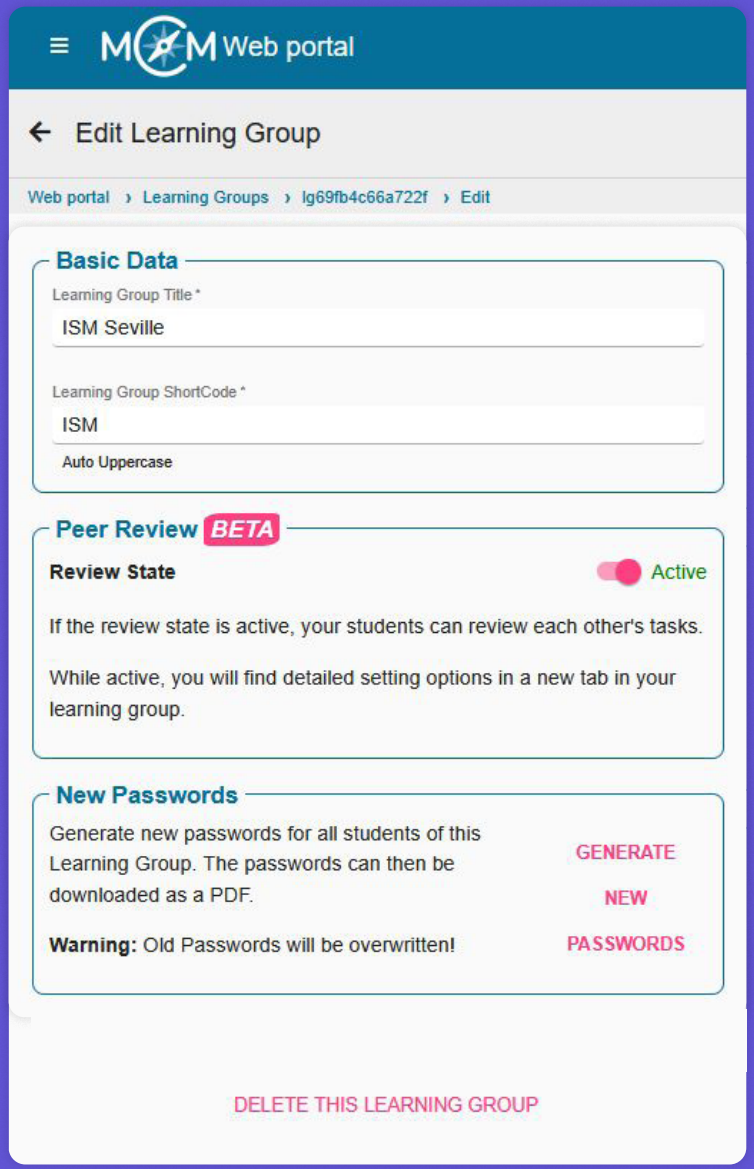


2

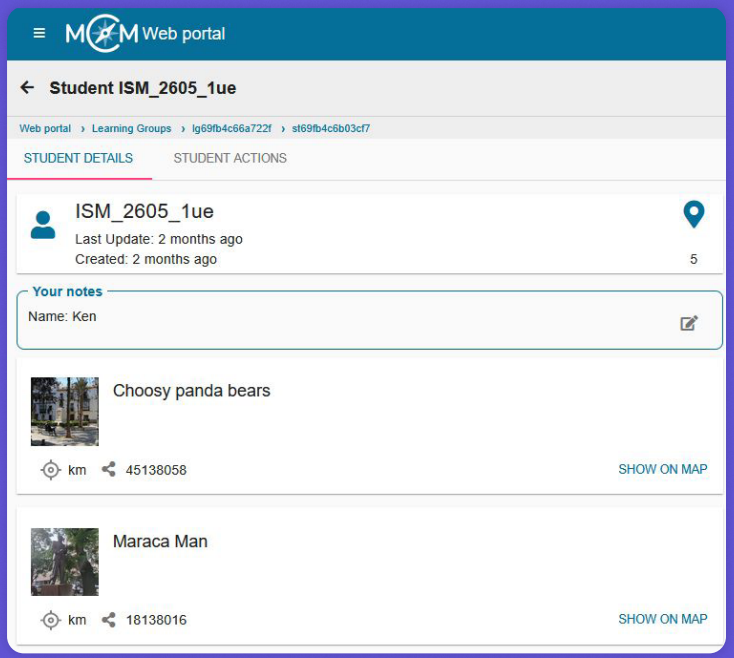


3

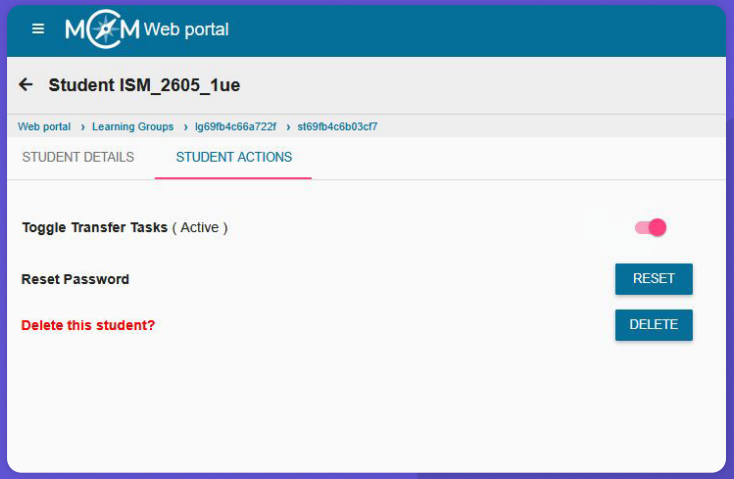
1. Homeview
2. Creating a Learning Group
3. Saving generated LogIn-Data



1



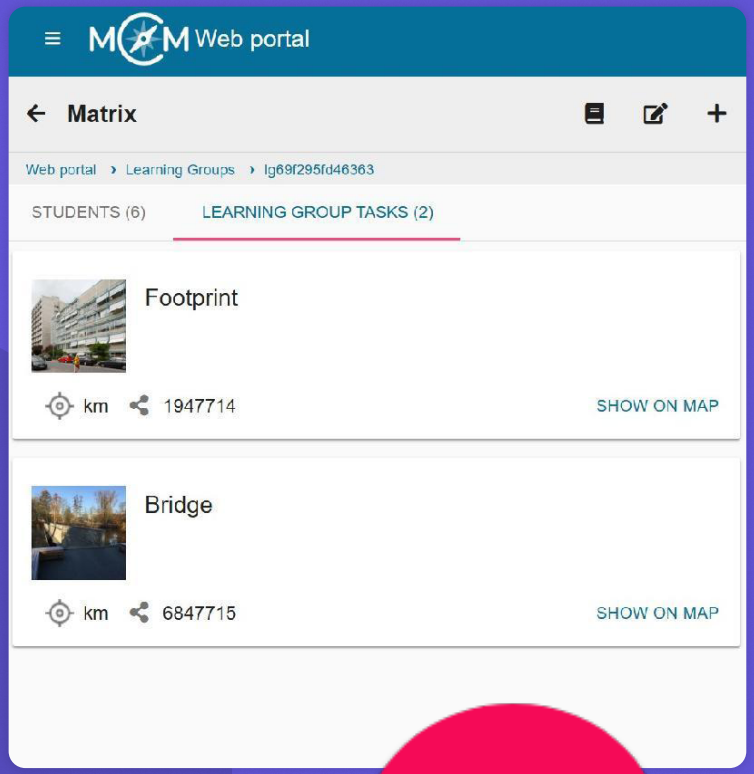
2



3

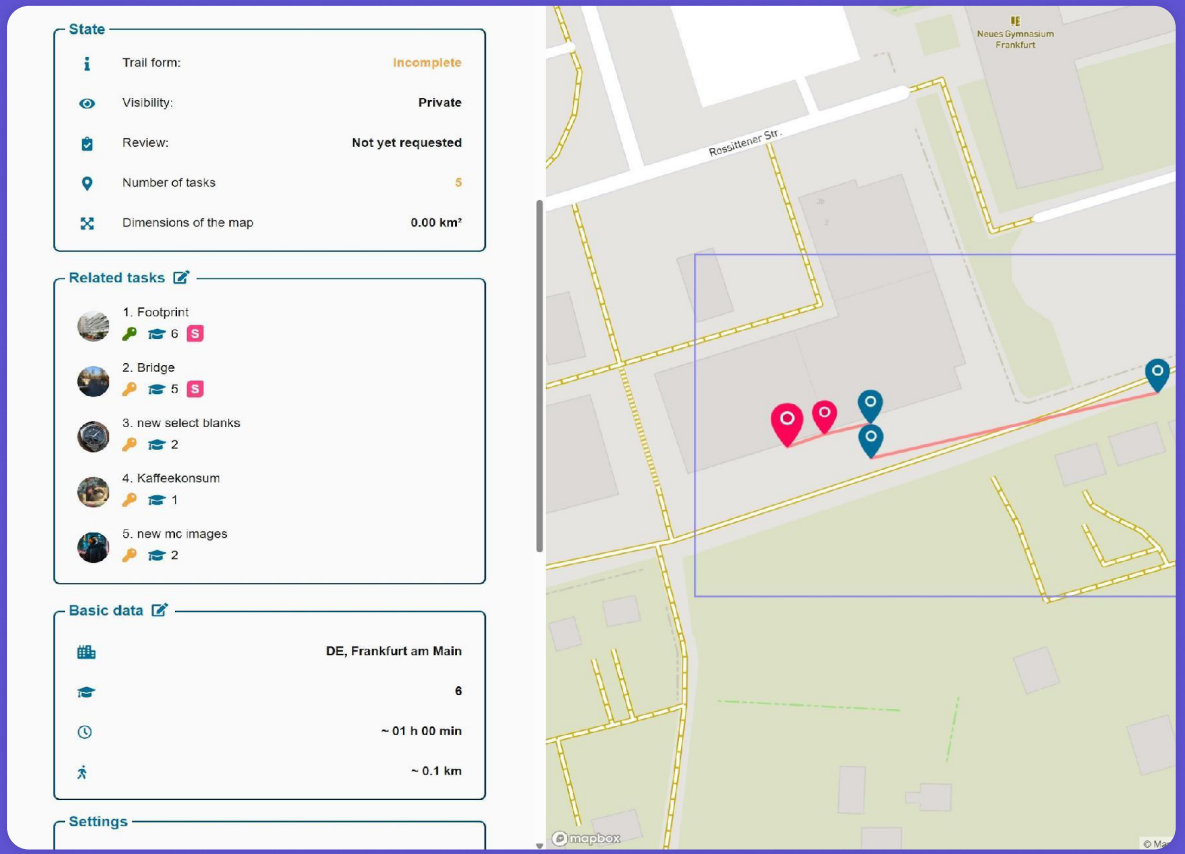
1. Managing a Learning Group
2. Student Details, Notes and Tasks
3. Managing Students

STUDENT ACCOUNT FEATURE



1

1. See all tasks of students
2. Student Tasks are marked in trails



2

Student Account Peer Review

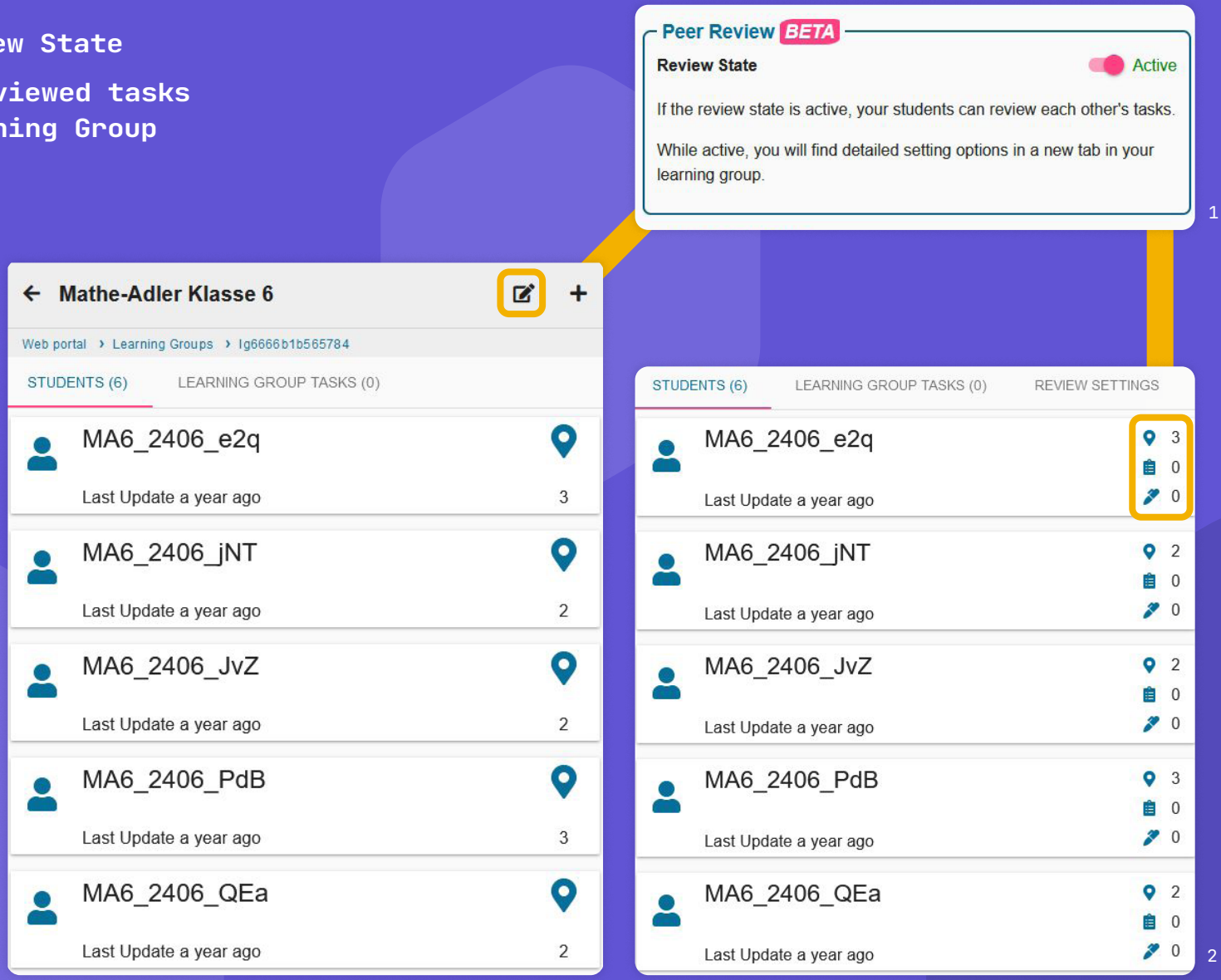
THE IDEA

- Students give each other feedback on their tasks

THE GOAL

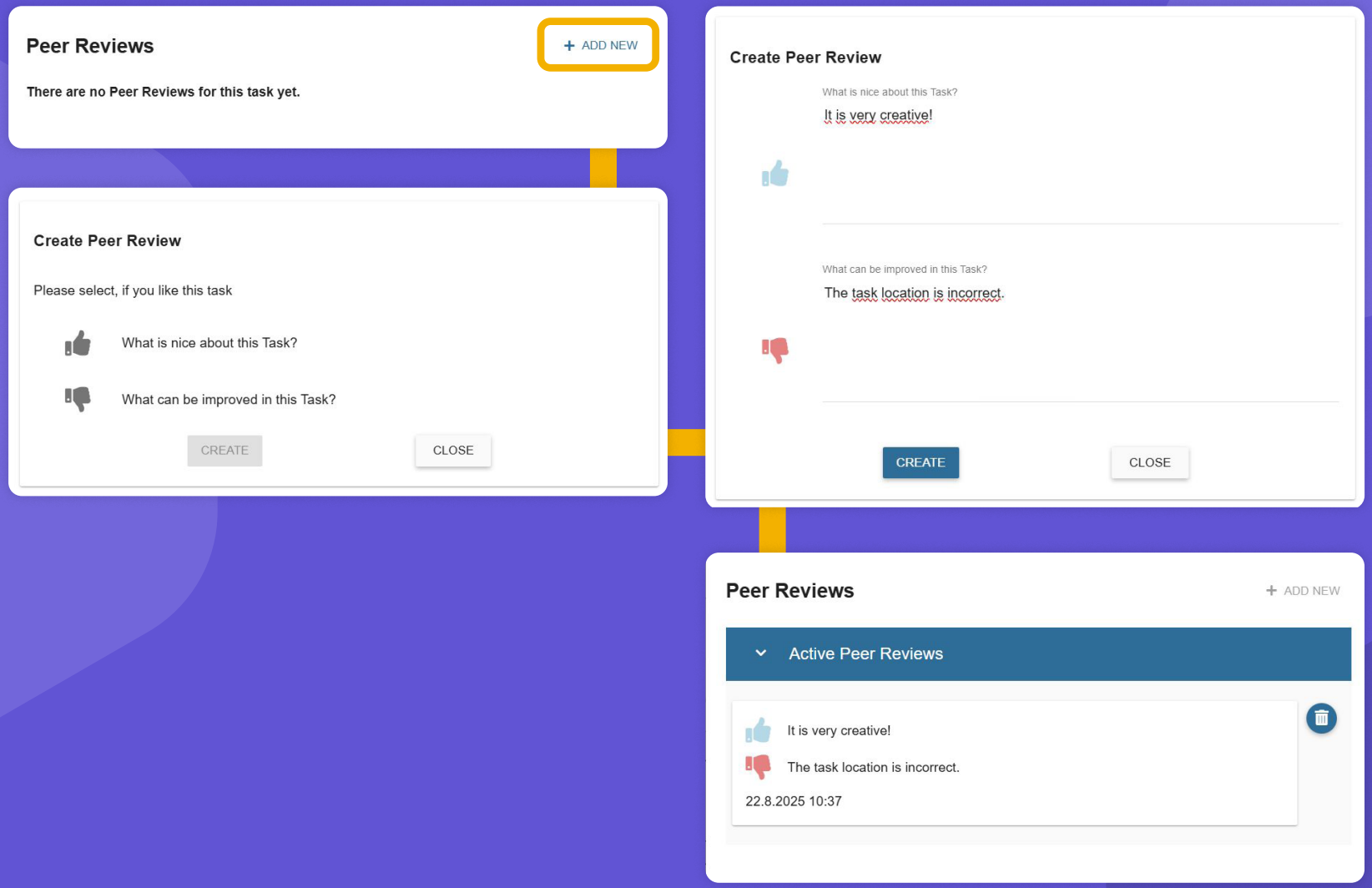
Improvement of tasks and acquisition of skills in formulating feedback

1. **Activation of the Review State**
2. **Overview of already reviewed tasks gets added to the Learning Group**



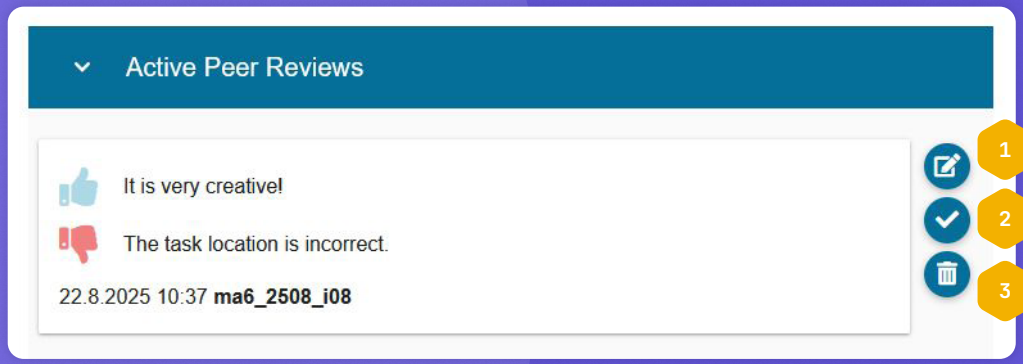
STUDENT ACCOUNT PEER REVIEW

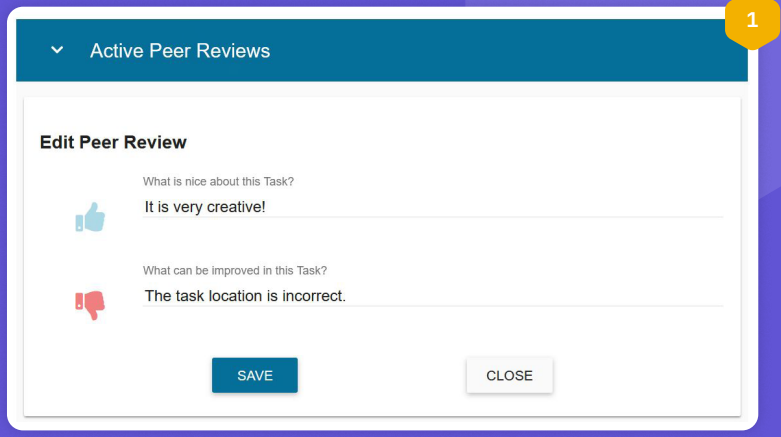
Student‘s view

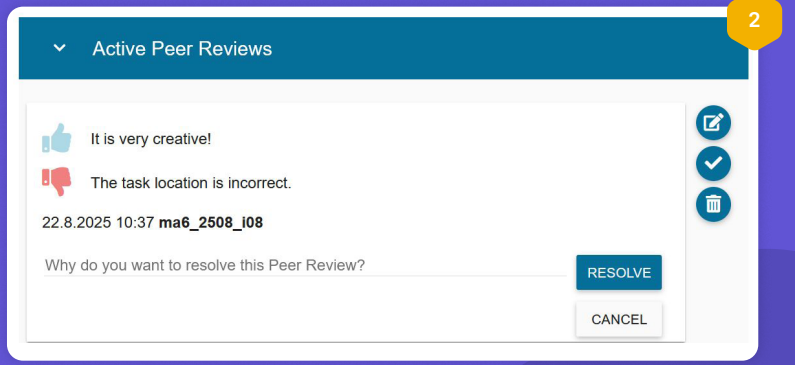


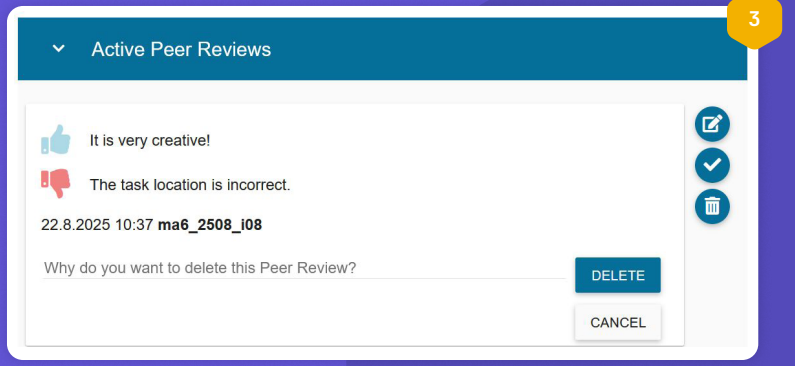
STUDENT ACCOUNT PEER REVIEW

Teacher‘s view



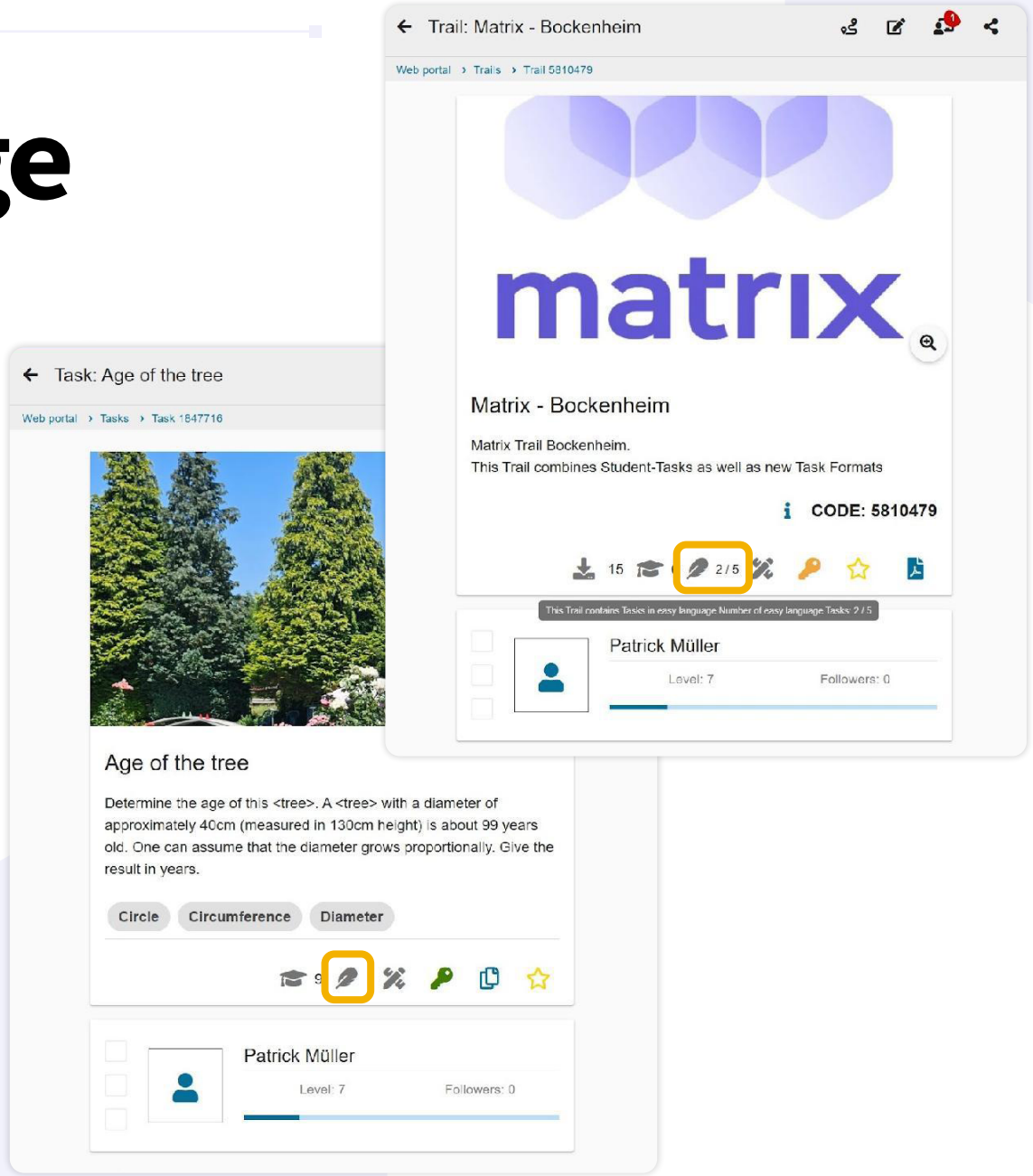






Easy Language Toggle

- The Easy Language Toggle indicates tasks that are created with the usage of Easy Language
- Trails show how many tasks in the trail are created using Easy Language



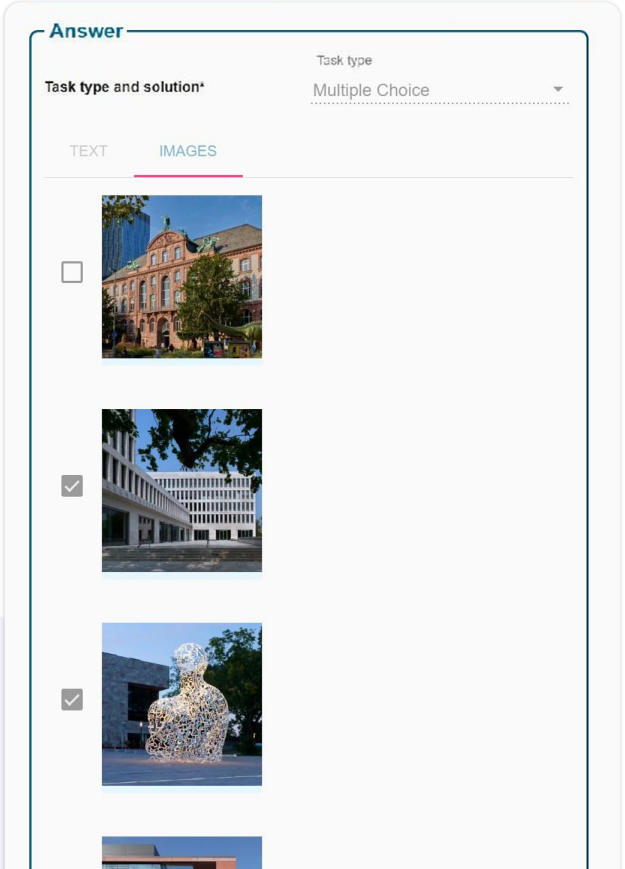
EXAMPLE TRAILS

4928504 / 0128614

Additional Answer Formats

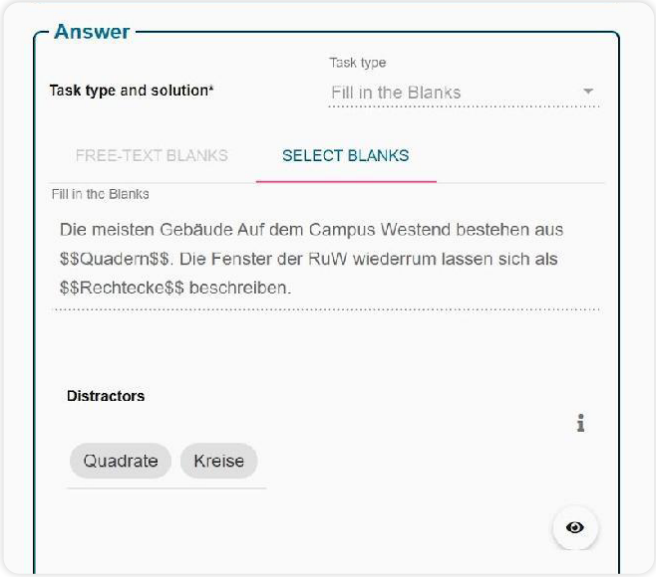
MULTIPLE CHOICE: IMAGE

- Selection of image solution
- Image enlargement



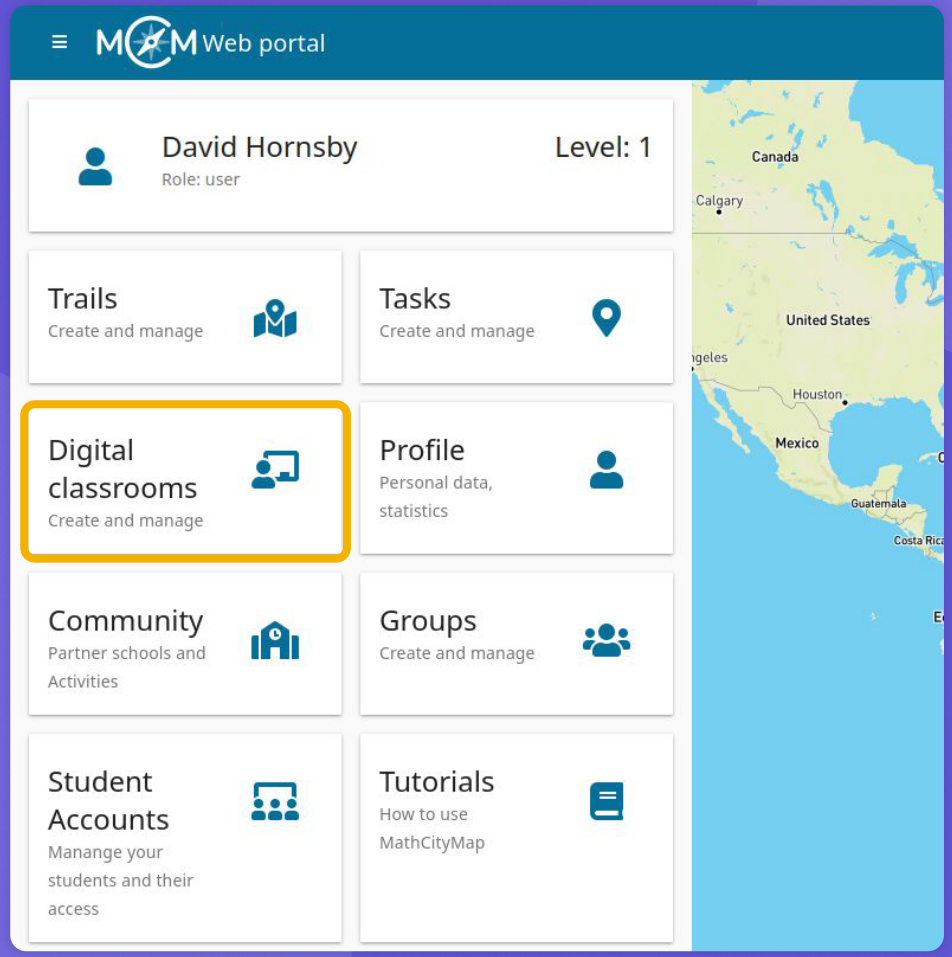
FILL IN THE BLANKS: SELECTION

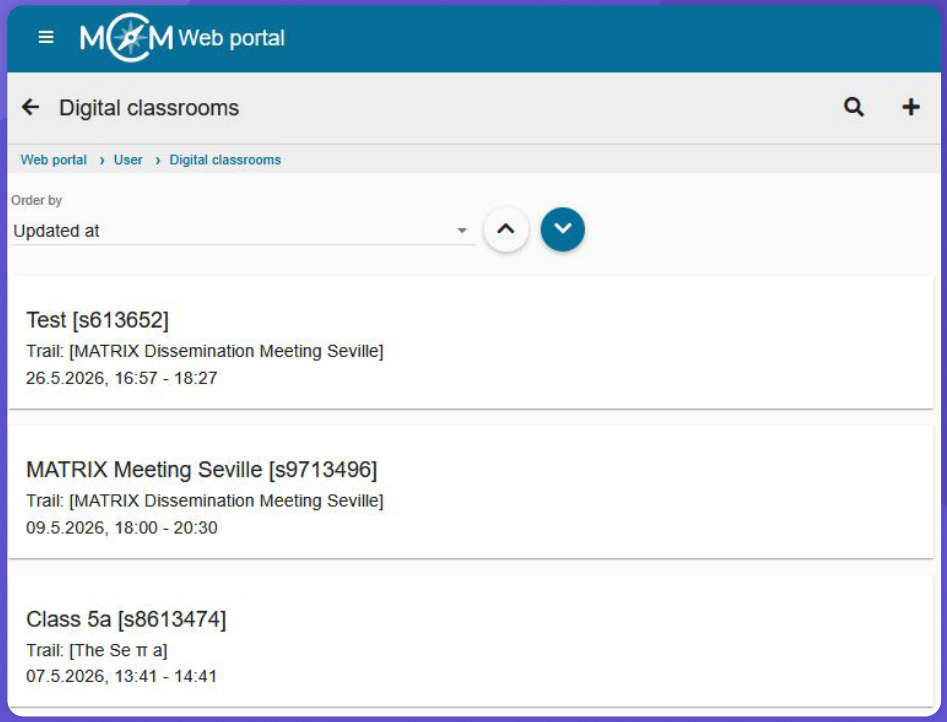
- Selection of words from given options as opposed to having blanks which are filled through typing
- Introduction of distractors



DIGITAL CLASSROOM

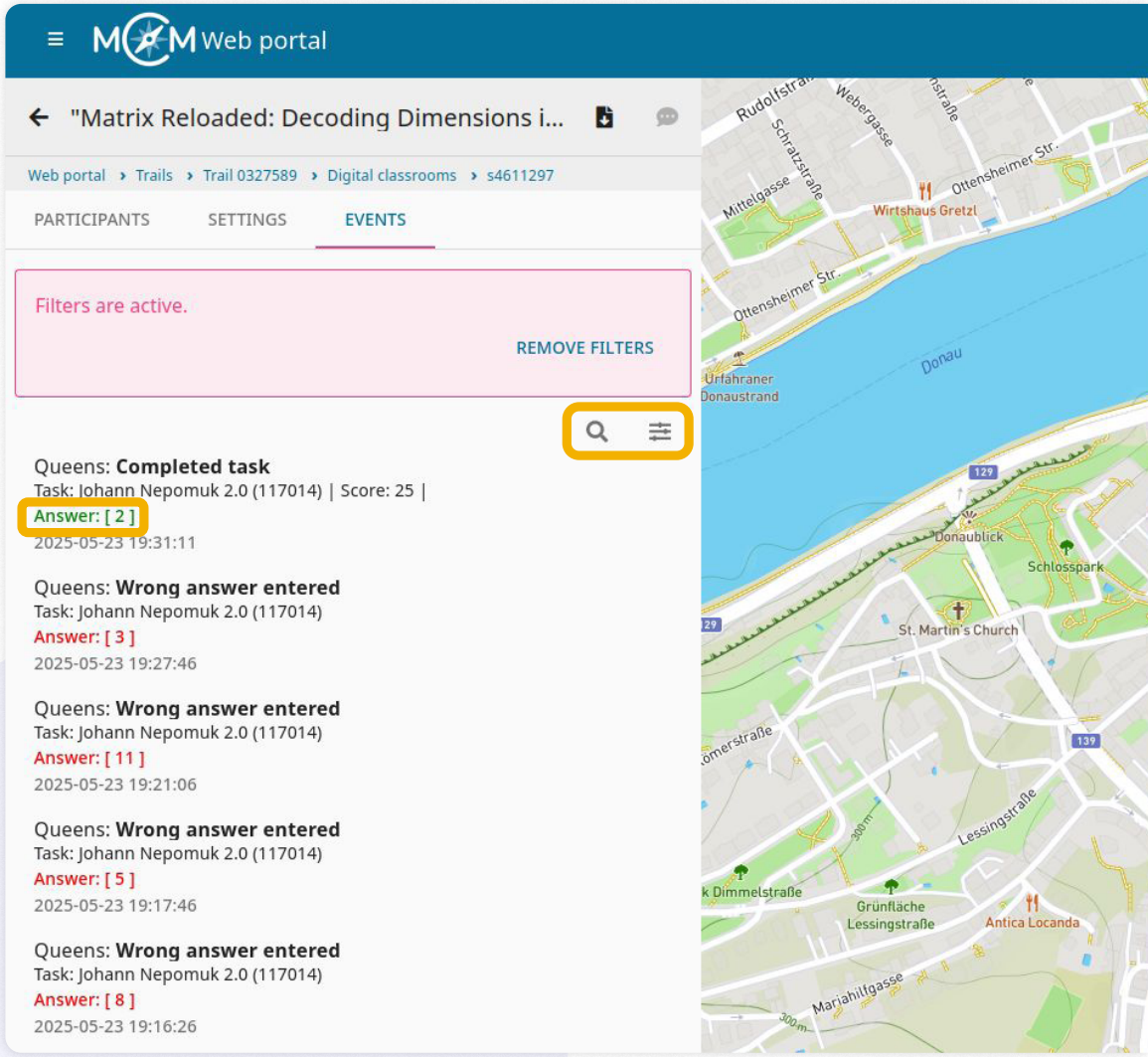
Easier Access





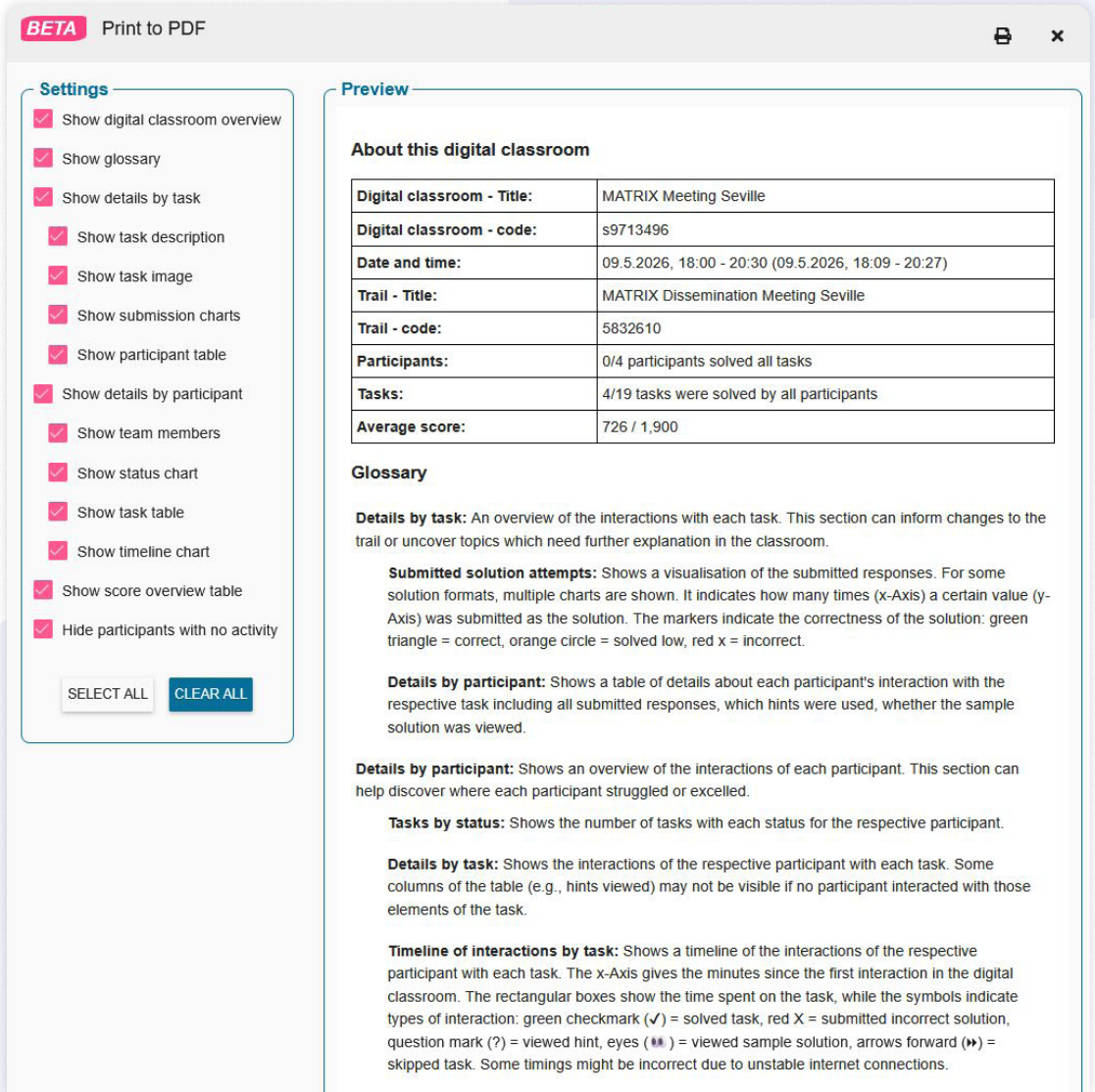
Event Display

- Cleaner display of student responses
- **Filter and search by**
  - participant
  - task
  - event type



Advanced Analytics

- An export function was implemented for teachers to obtain a deeper insight into their students learning processes after the completion of a Mathtrail



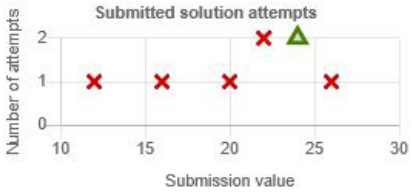
Advanced Analytics

Task: The Infinite Bend

Dracula is officially stuck. He survived 400 years of vampire hunters, but this brutalist concrete maze in Seville has defeated him.
"I can navigate a Transylvanian dungeon in the dark," he hissed, "but I've been circling this thing for hours!" He's currently trapped in a geometric loop, unable to escape until he counts every single corner.



Task type: Exact value
Answer: 24



Participants	Time to solve	Score	Hints viewed	Submitted answers
Los flamencos	-	0	hint1 hint2	22 12 16 26
Someone else might do it	5m 08s	100		22 24
ClaFrJols	1m 20s	100	hint1	20 24

Details by task for …

- detecting tasks with issues
- identifying topics and concepts that need further attention in the class

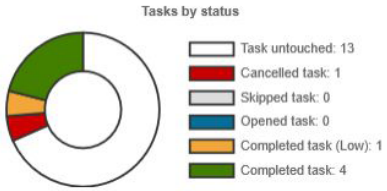
Advanced Analytics

Details by participant for…

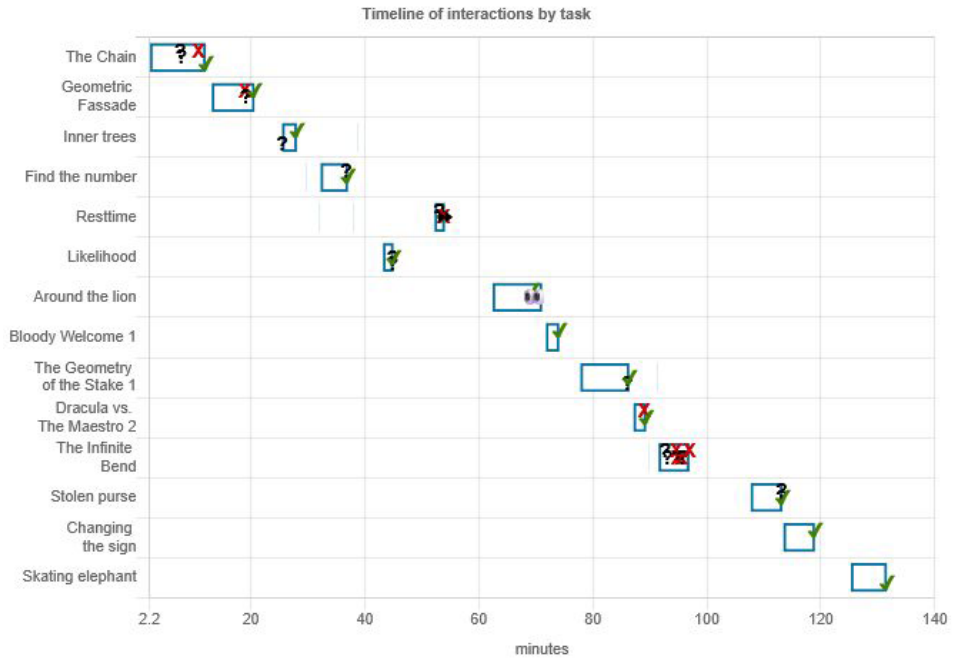
- helping evaluate students' competencies and knowledge levels

Fancyy
Fancy Janka, Fancy Ana, Fancy Iwan

Score: 475
Number of hints viewed: 8
Number of sample solutions viewed: 2
Number of submitted answers: 13

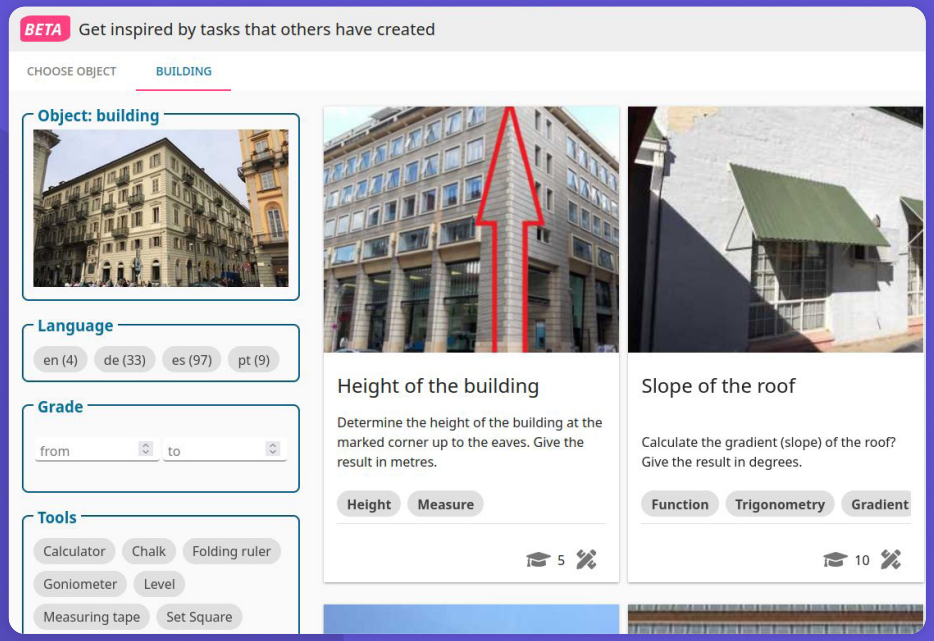


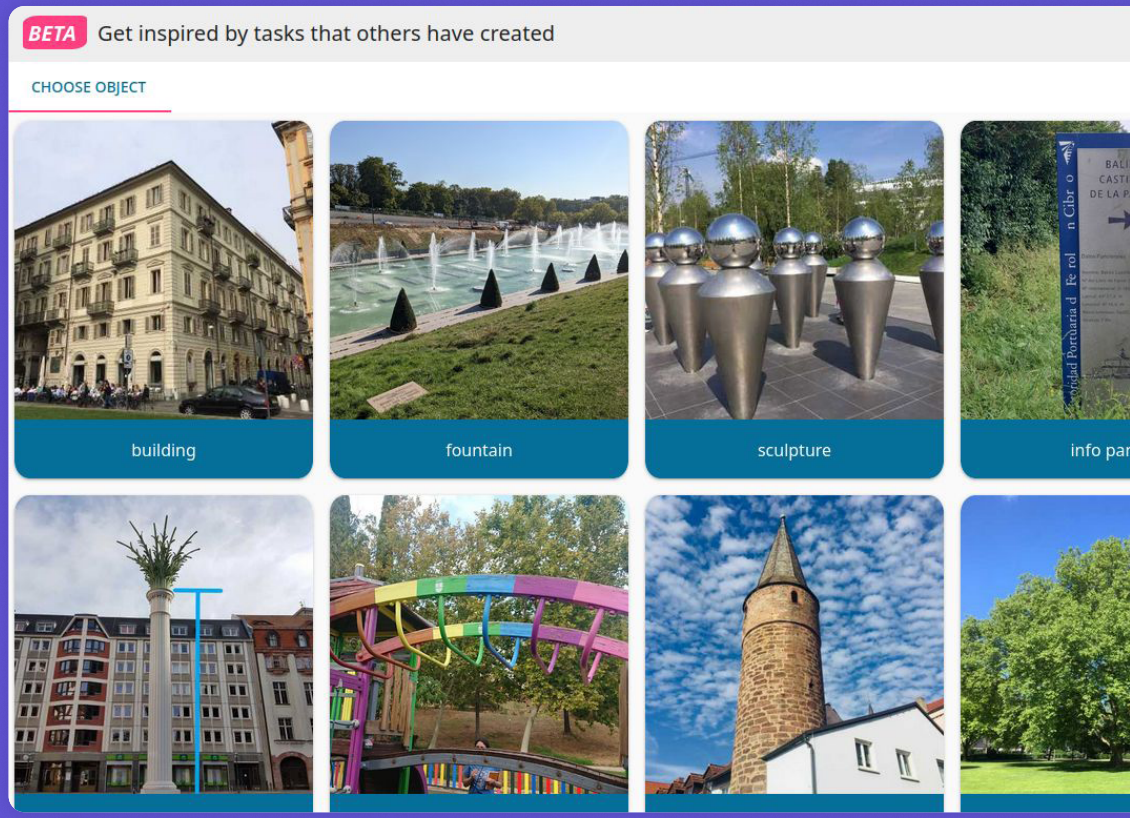
Task	Time to solve	Score	Hints viewed	Opened sample solution	Submitted answers
Bloody Welcome 1	4m 12s	100		No	Dodecagon
Around the lion	5m 38s	75		Yes	84,5
Geometric Fassade	3m 10s	100	hint1 hint2	No	Semicircle | Hexagon | Ellipsoid Triangle, Semicircle, Hexagon, Ellipsoid
Dracula vs. The Maestro 2	1m 20s	100	hint1 hint2	No	1



TASKS

Content Categorization





- Especially well designed tasks were categorized regarding the object they correspond with
- Tasks are now searchable by object via the content search

Inclusive Elements II WEB PORTAL

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Math Trails with an Inclusive Perspective on Students' Experiences ▪ 09/2023 – 08/2026

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