Real time network, text, and speaker analytics for combating organized crime

ROXANNE Training Platform

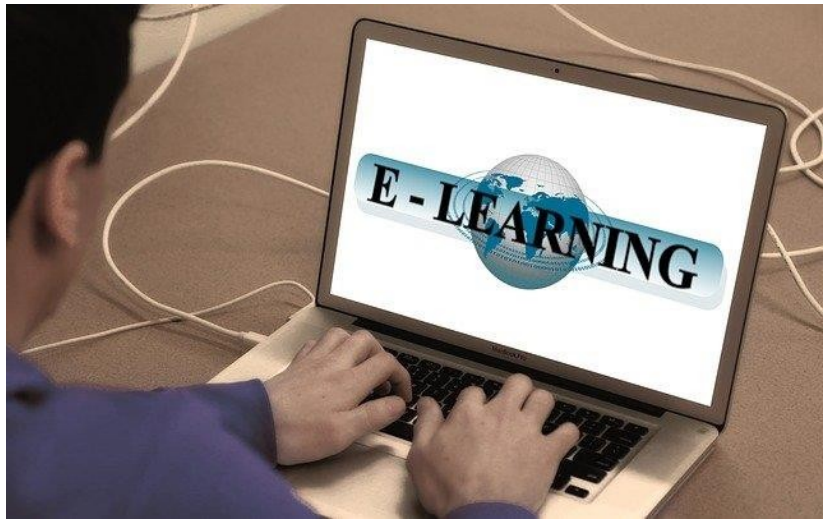
Nikolaos Koutras ADDITESS Ltd

Campus Cyber, 29-11-2022

This project has received funding from the European Union's Horizon 2020 Work Programme for research and innovation 2018-2020, under grant agreement n°833635

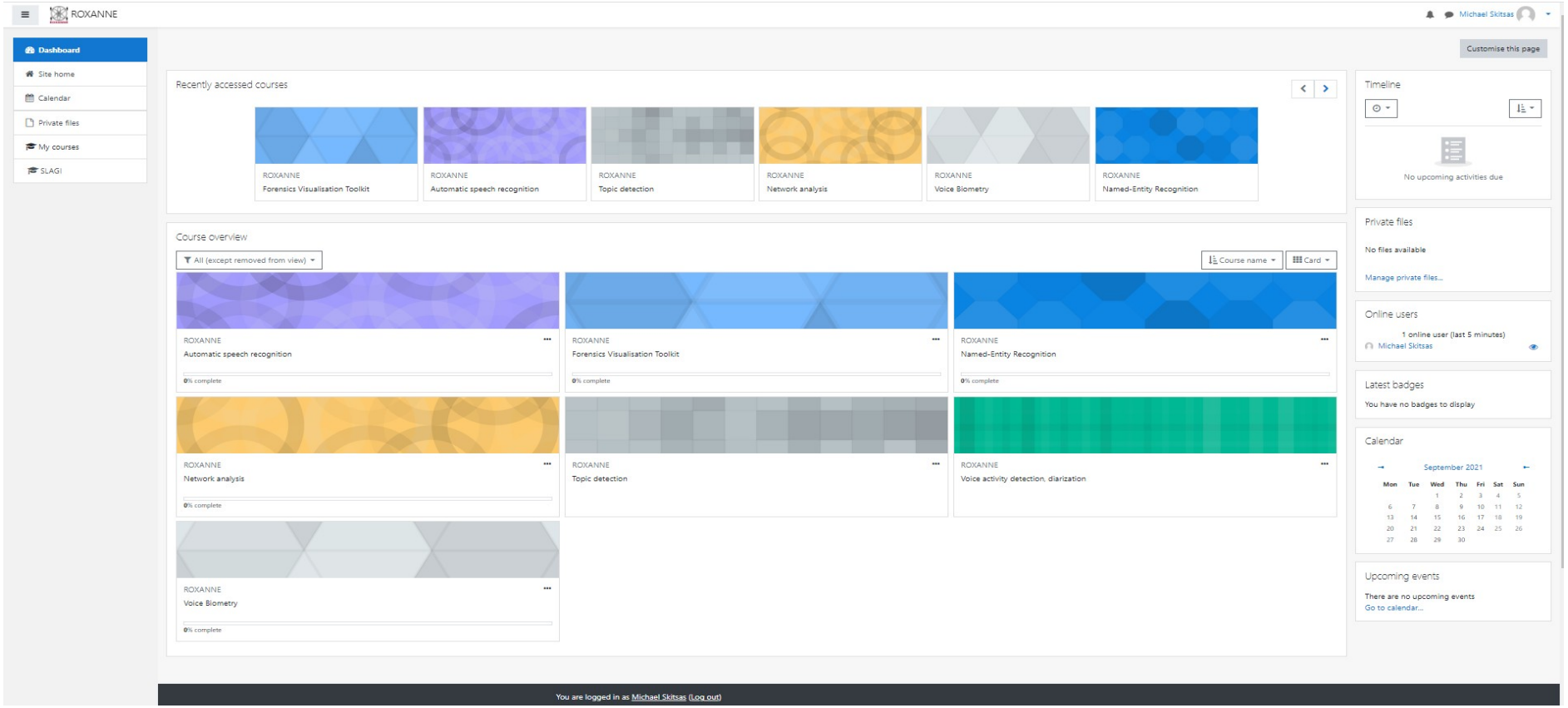
Summary

- **Web based Training (WbT)** in distance learning education/training is considered to be an innovative method of learning
- In the **security domain**, where the usage of innovative and state of the art tools becomes a necessity, the **continuous training** of end-users is a **challenge**.
- The ROXANNE project presents **a great potential** for WbT where the training of tools by the technology providers should take place **during and after** the implementation of the project
- Training is available to the end-users through the ROXANNE Training Platform (Based on Moodle)



Training Platform

https://roxanne.kemea-research.gr/



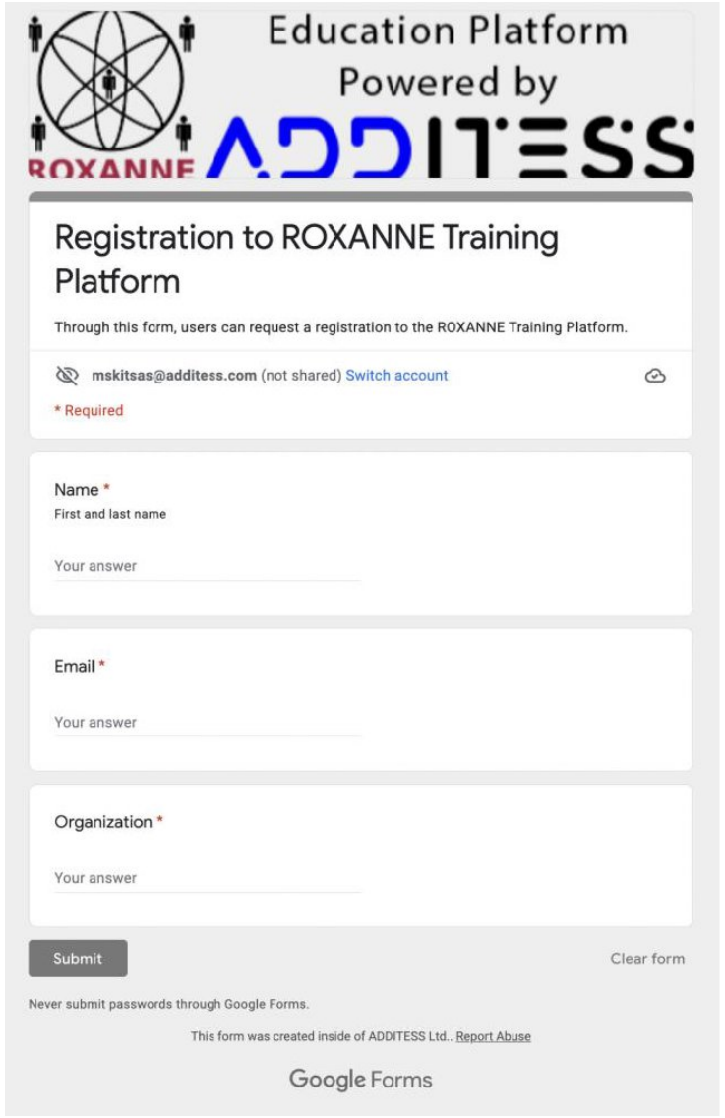
Training Platform: How to register?

- Self-registration is NOT allowed

- Request registration through:
  ✓Email to contact@additess.com

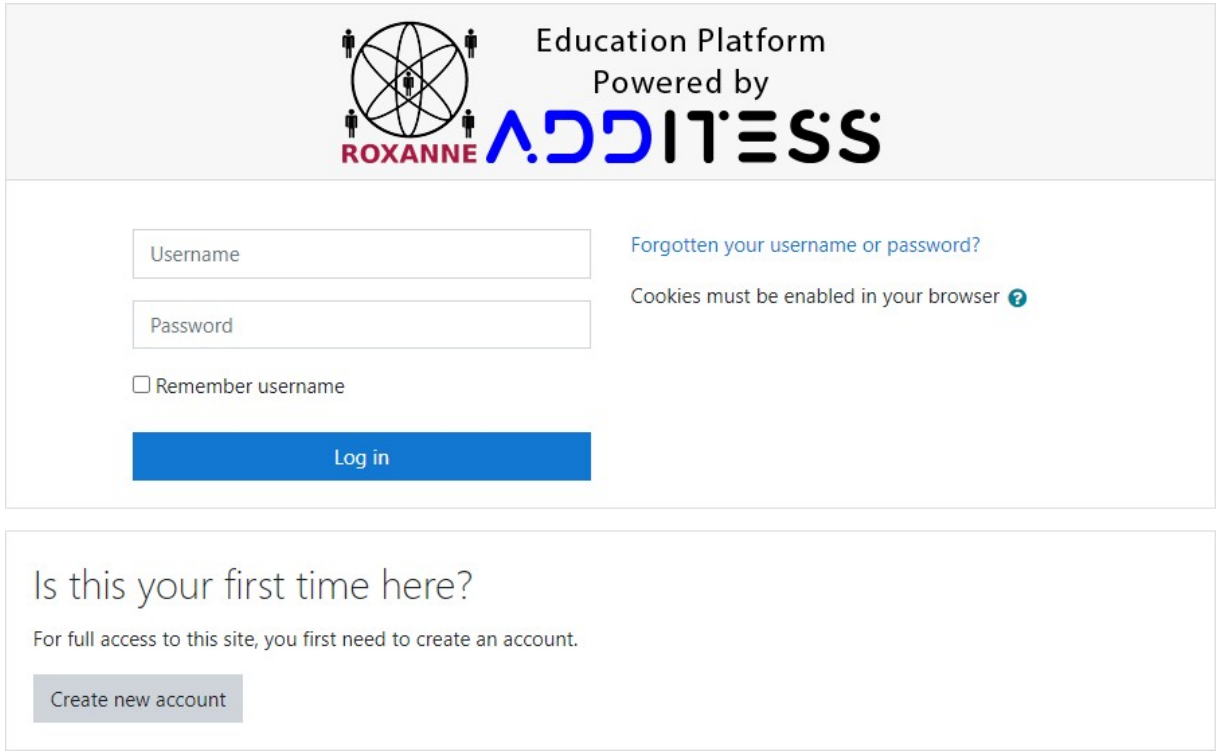
Subject: [ROXANNE] Request for registration or
  ✓Google Forms

https://forms.gle/ppZfFj72vkasUHZr7



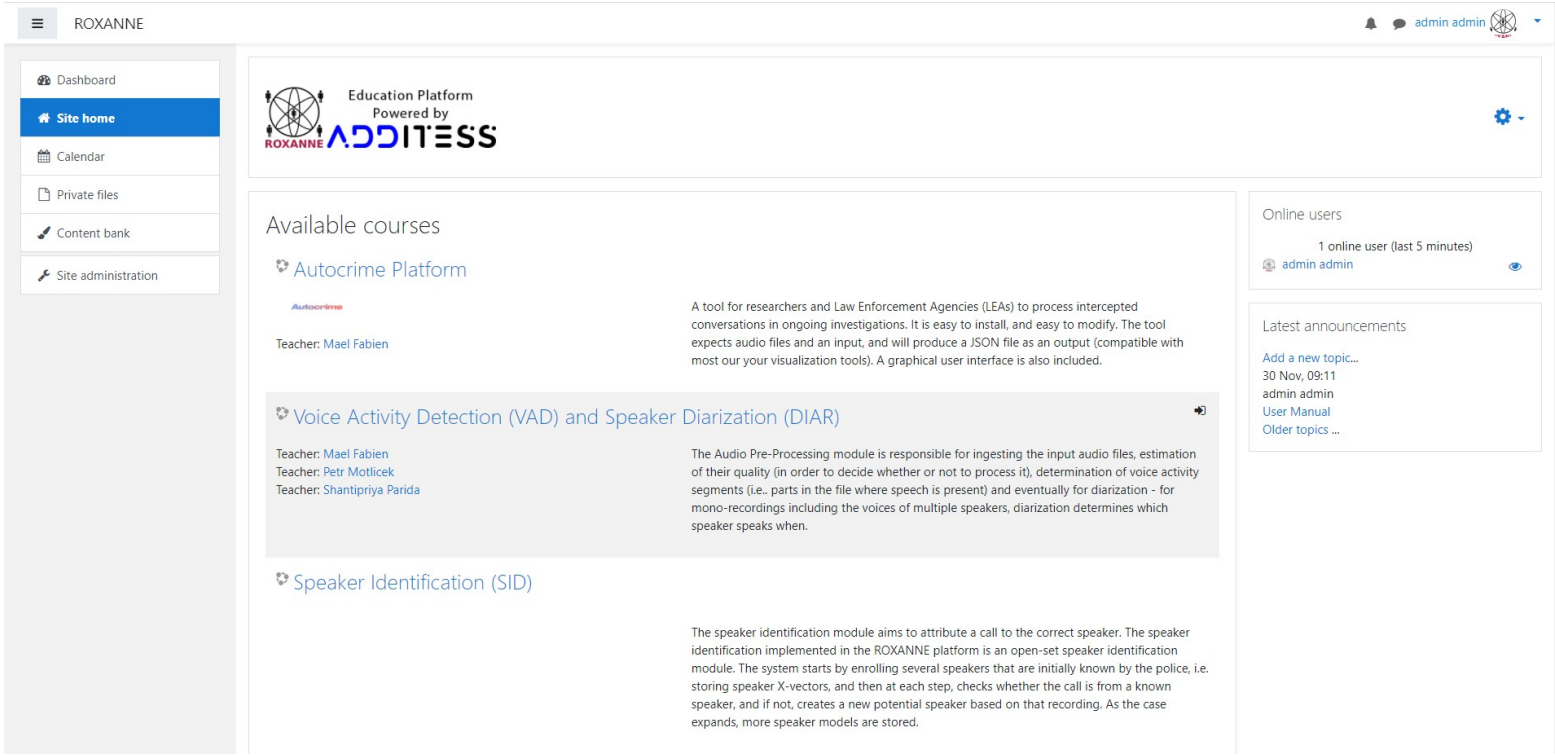
Training Platform: How to access?

https://roxanne.kemea-research.gr/

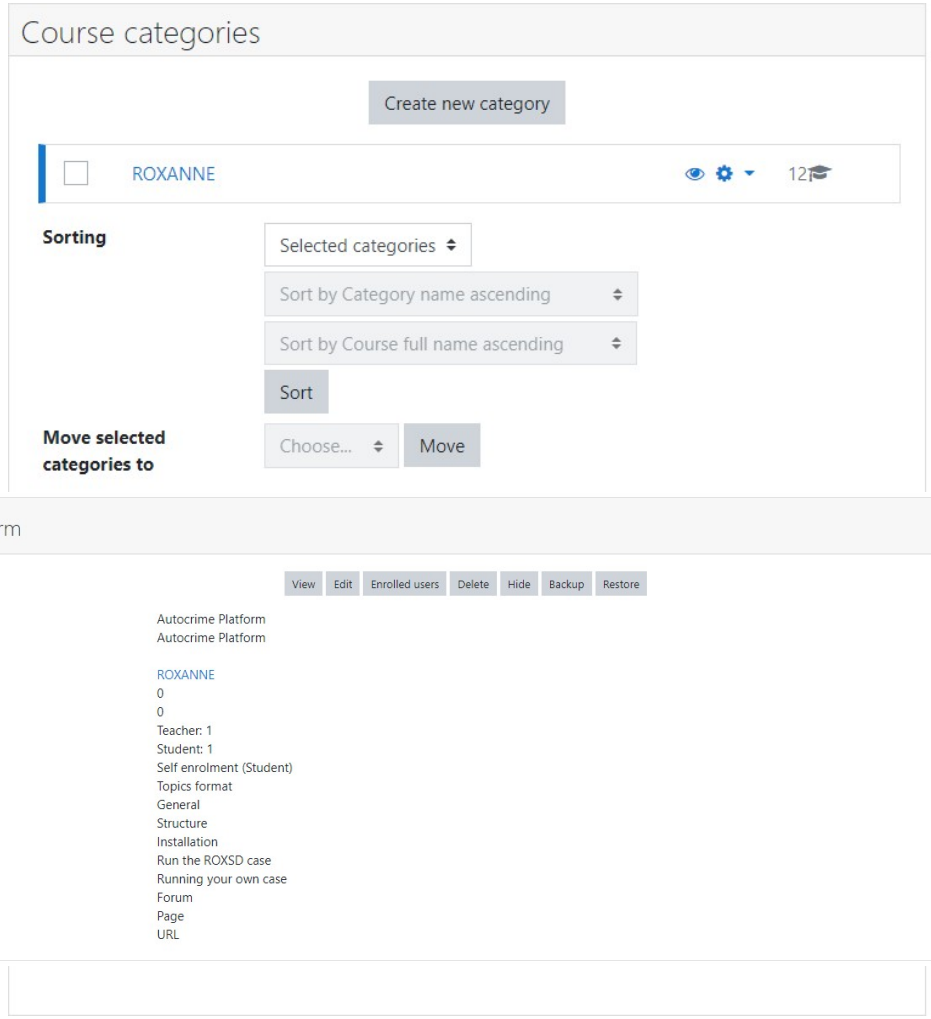


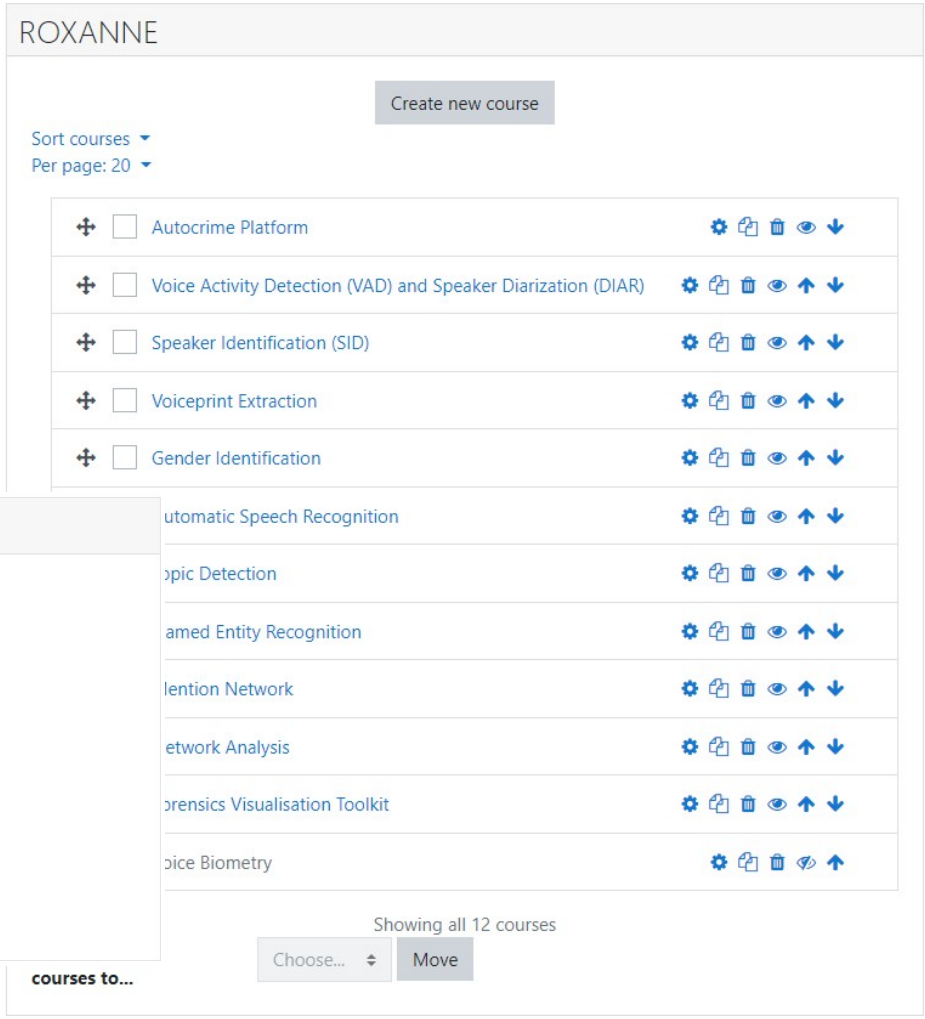
List of courses

- ROXANNE User Manuals
- Autocrime Platform
- Voice Activity Detection (VAD) and Speaker Diarization (DIAR)
- Speaker Identification (SID)
- Voiceprint Extraction
- Gender Identification
- Automatic Speech Recognition
- Topic Detection
- Named Entity Recognition
- Mention Network
- Network Analysis
- Forensics Visualisation Toolkit



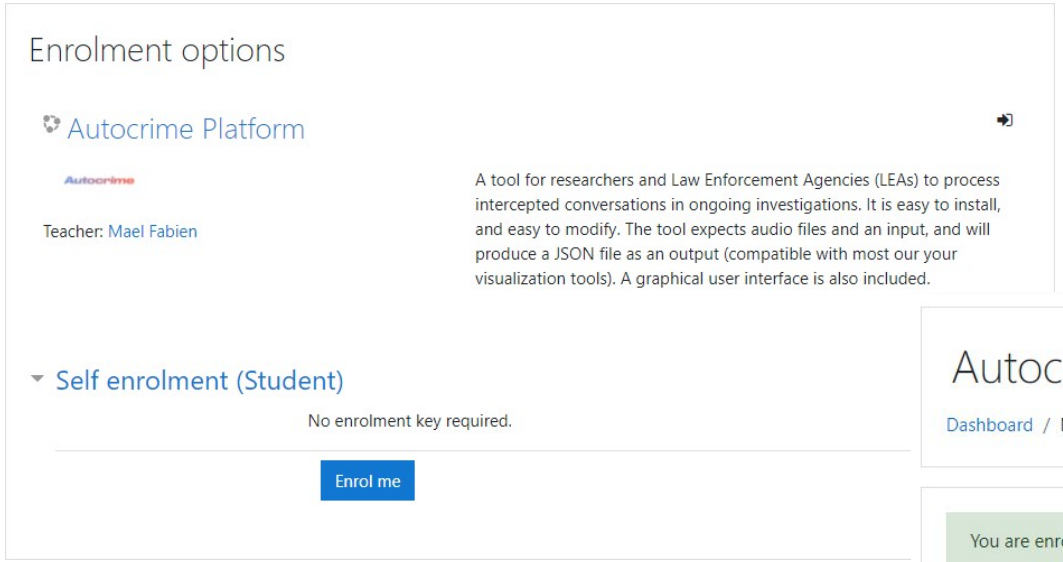
Course Management

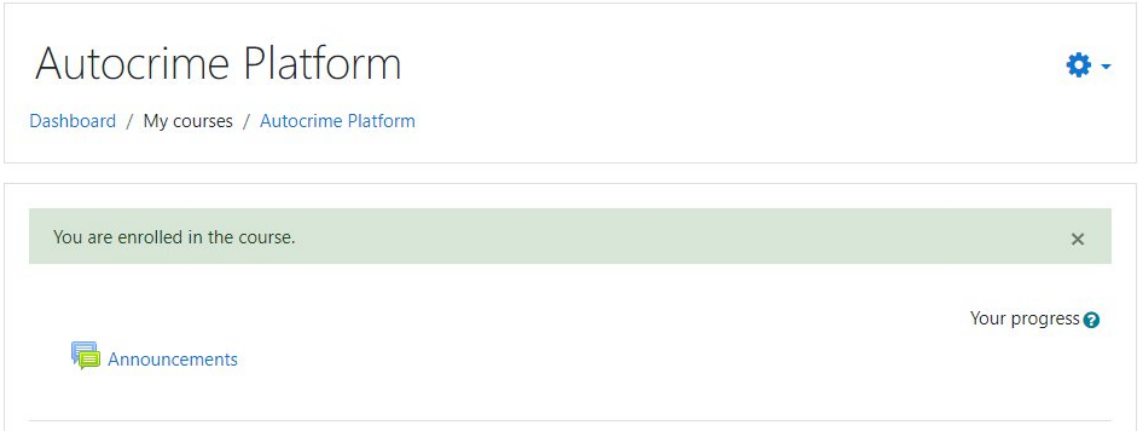




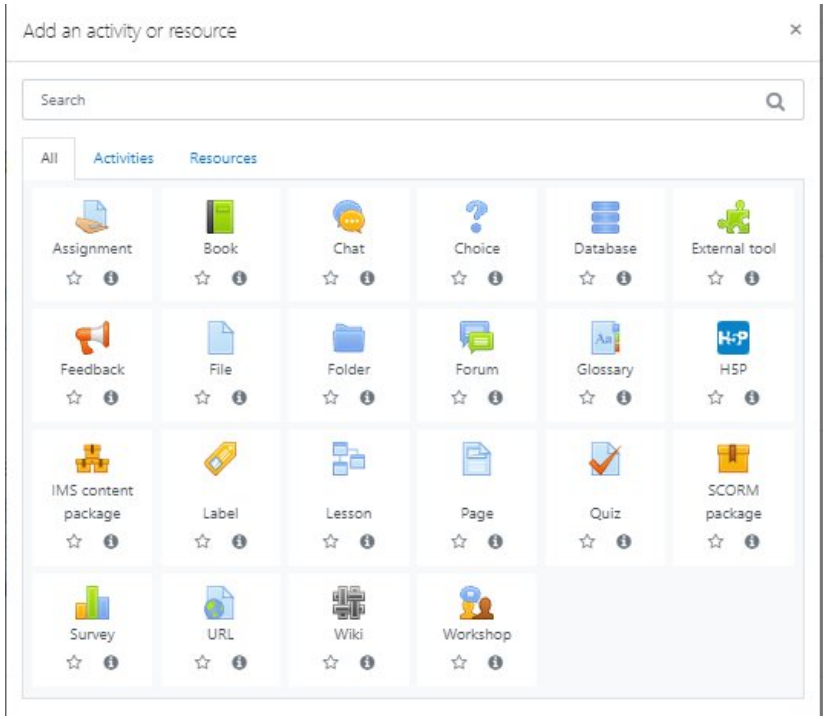
Course Enrollment

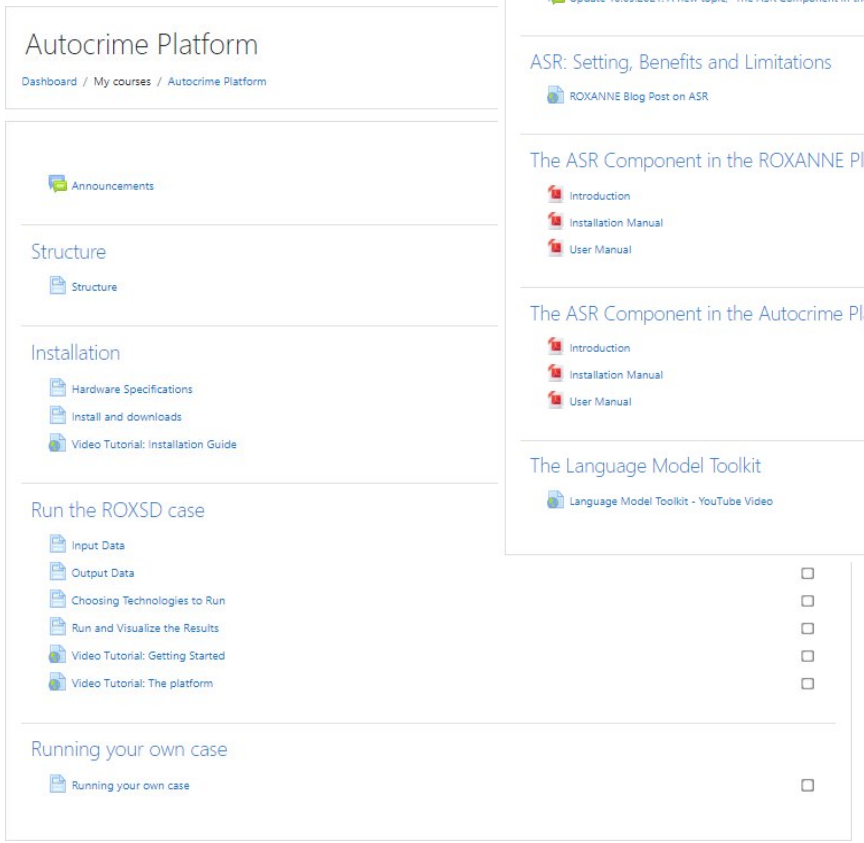
- Self Enrollment is enabled

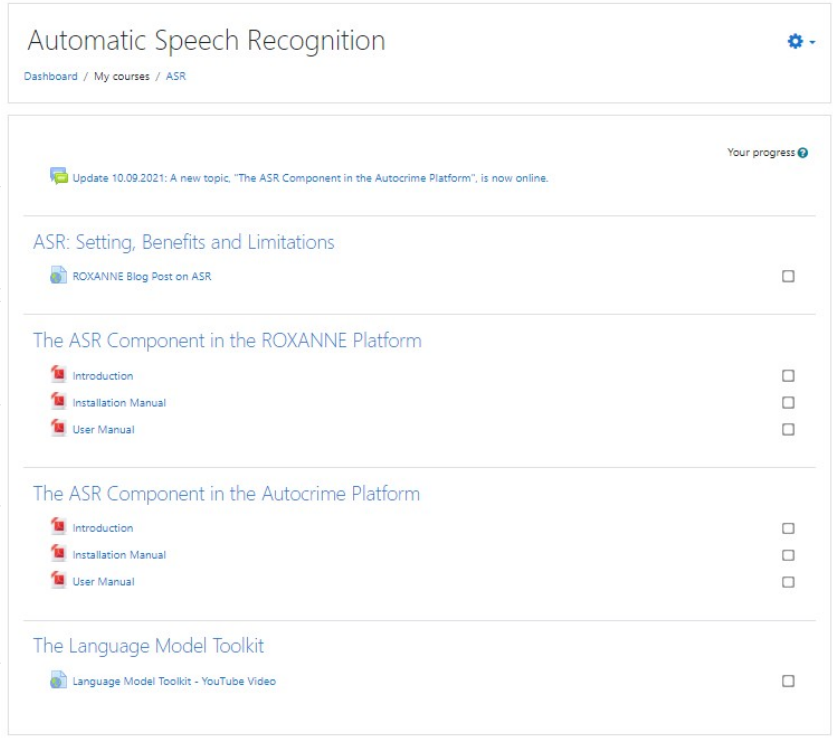




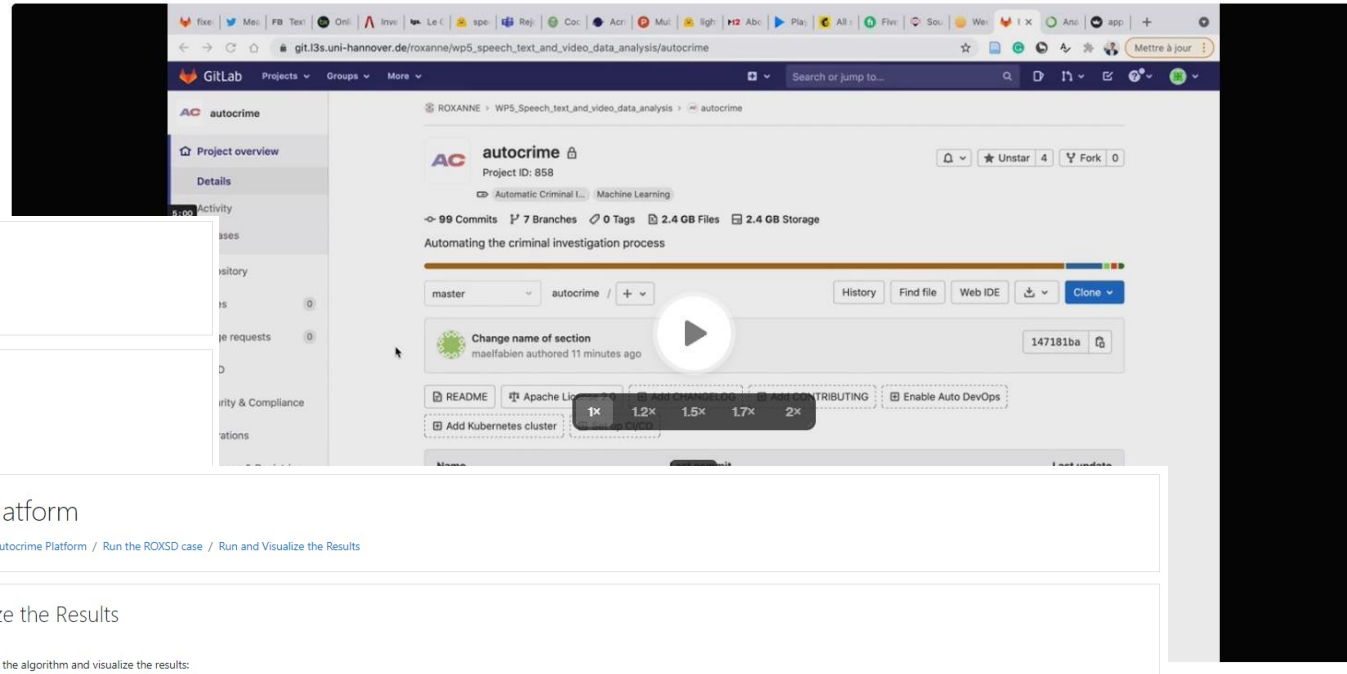
Course Structure







Course Material



Autocrime Platform

Dashboard / My courses / Autocrime Platform / Installation / Hardware Specifications

Hardware Specifications

The platform currently supports:

- Linux Ubuntu
- macOS (BigSure with M1 will not work)

Windows integration is a work in progress. However, running the platform in a virtual machine has already been tested. The following requirements should be respected:

- 16Gb of RAM
- 50Gb of disk space

Last modified: Thursday, 7 October 2021, 11:44 AM

Structure

Jump to...

Autocrime Platform

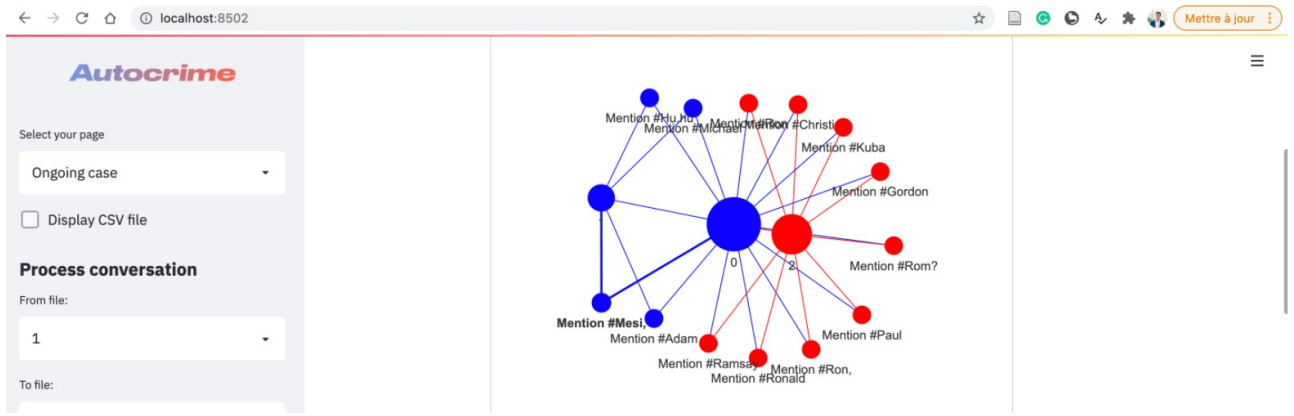
Dashboard / My courses / Autocrime Platform / Run the ROXSD case / Run and Visualize the Results

Run and Visualize the Results

You now have two ways to run the algorithm and visualize the results:

1. Process a **batch** of data (fully automatic), which will simply generate the JSON output. In the `config.yaml`, change `method` in `run` to "batch".
2. Process the data **file by file** via a user interface provided with an embedded network visualization tool, that lets you correct errors of the models. In the `config.yaml`, change `method` in `run` to "file".

This is what it looks like:



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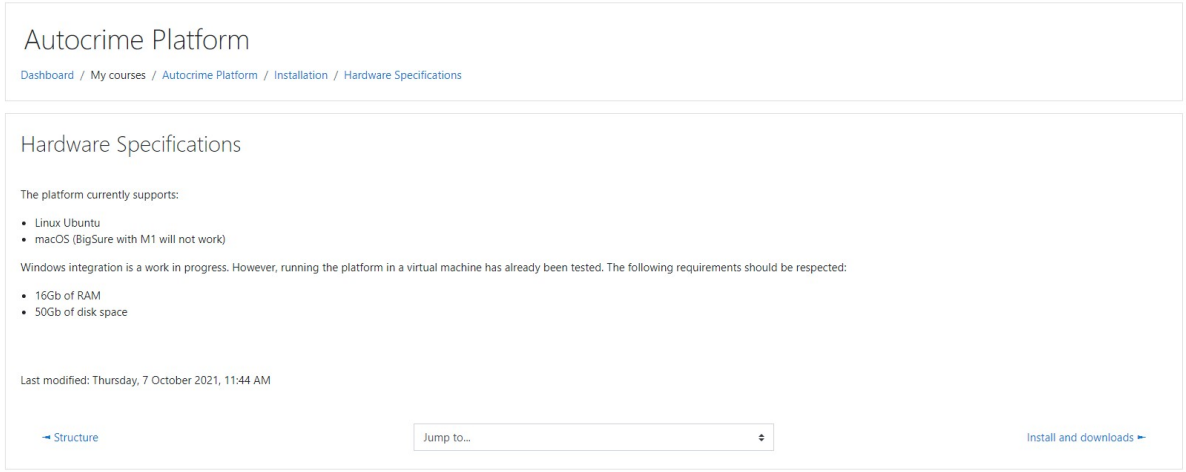
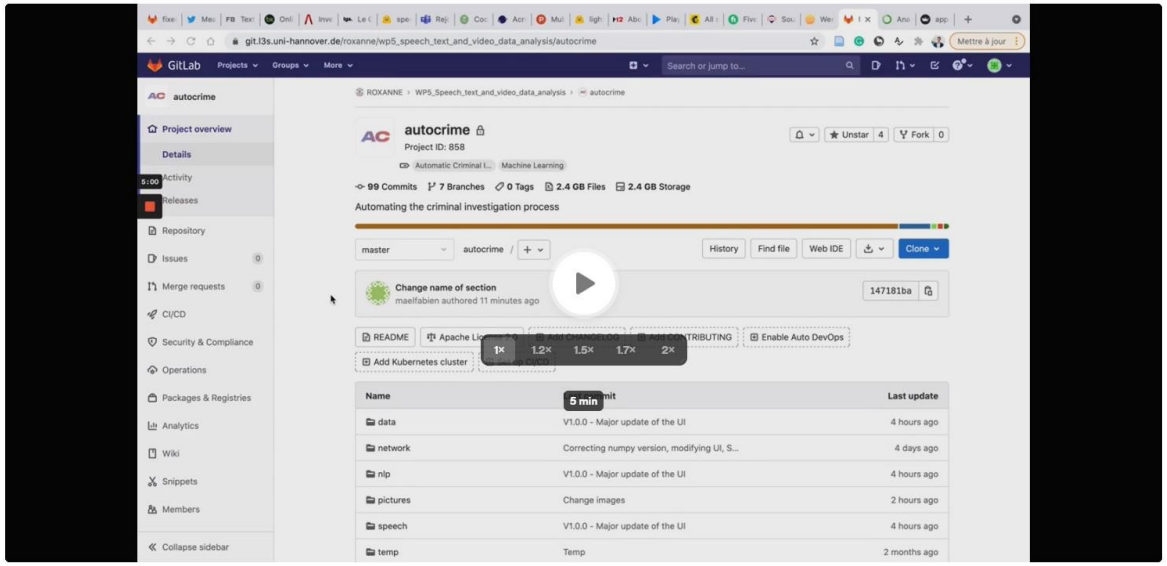
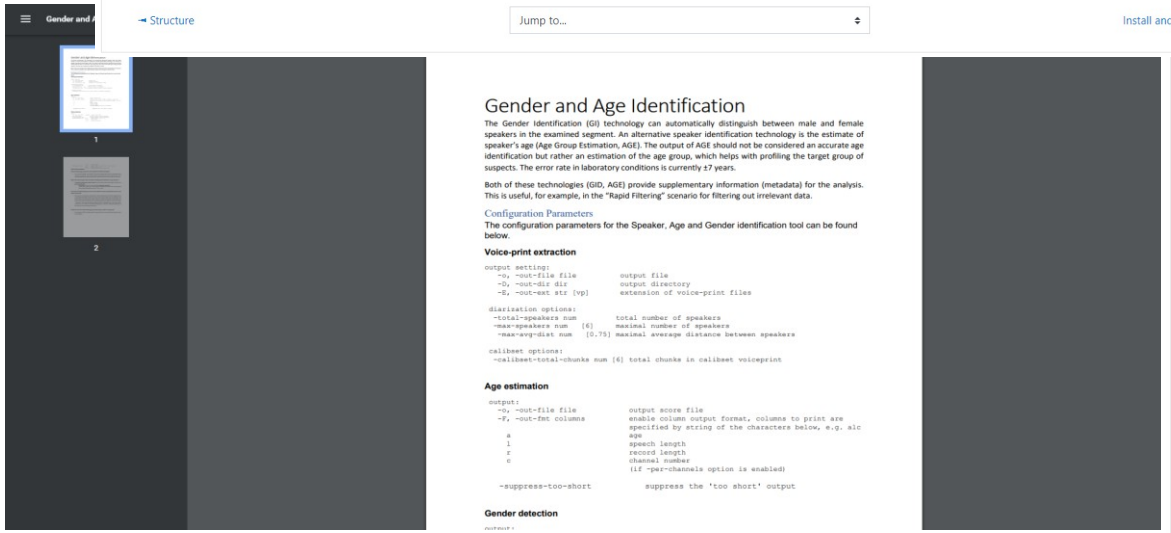
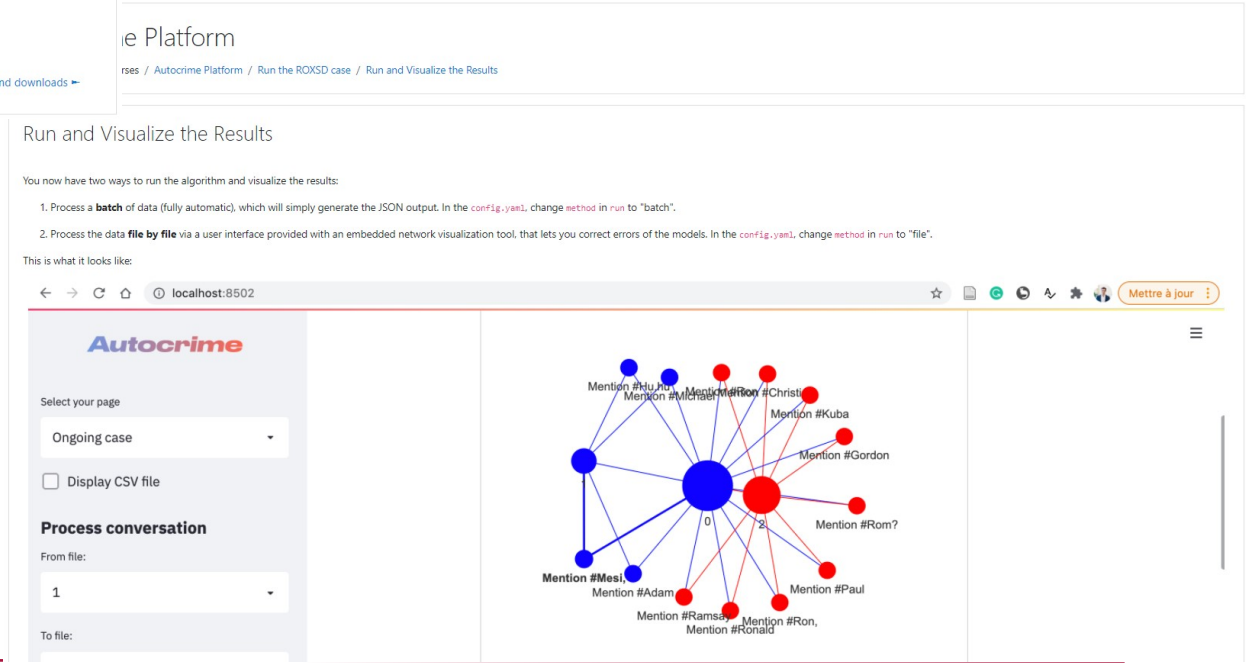
Course Material

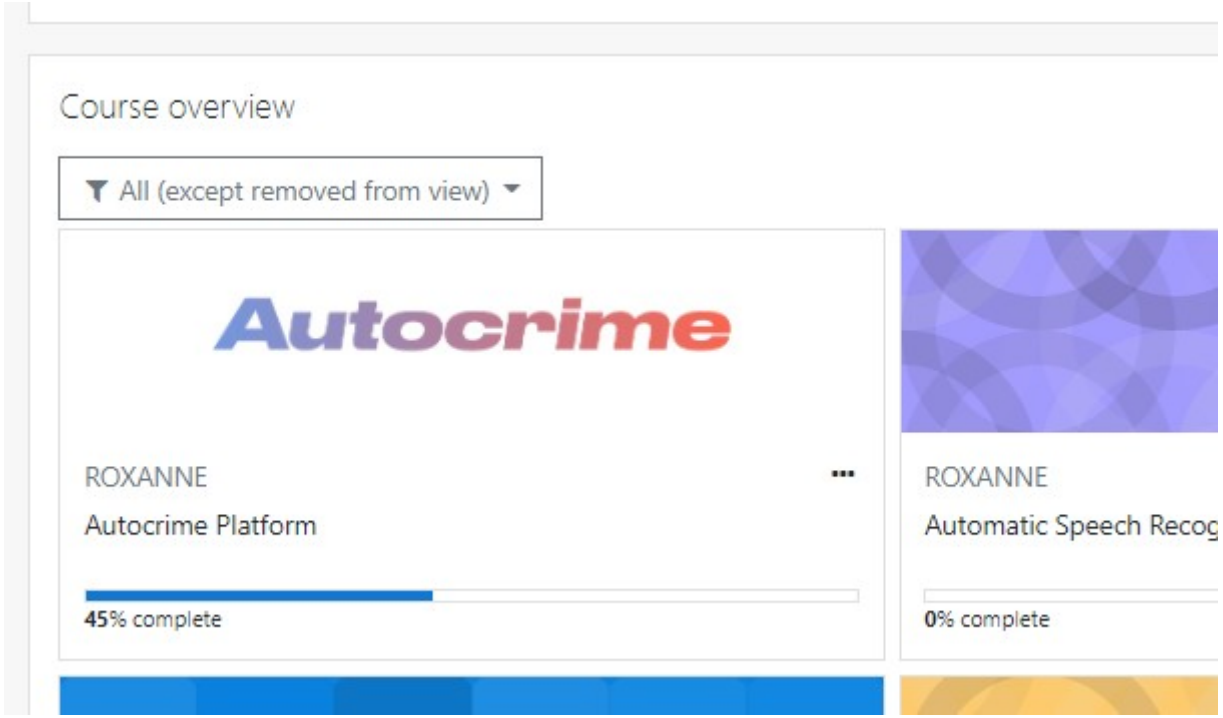


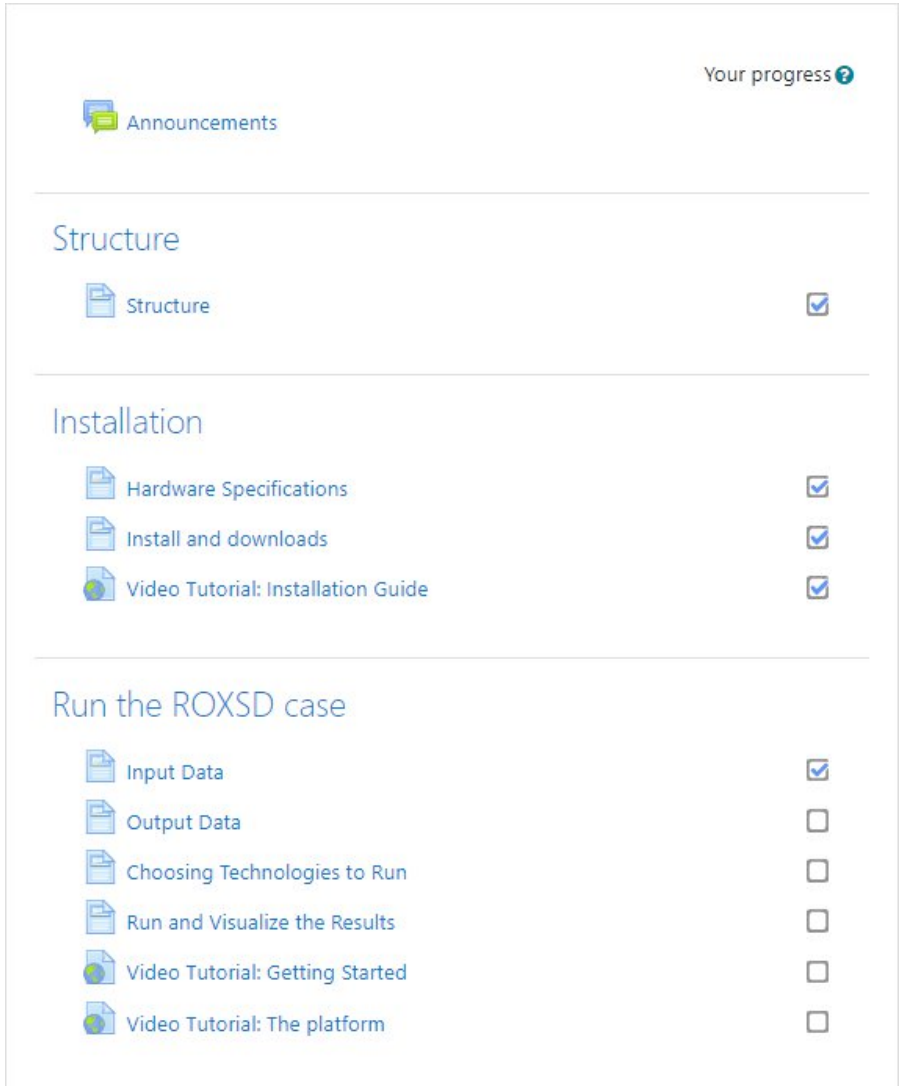






Progress Tracking





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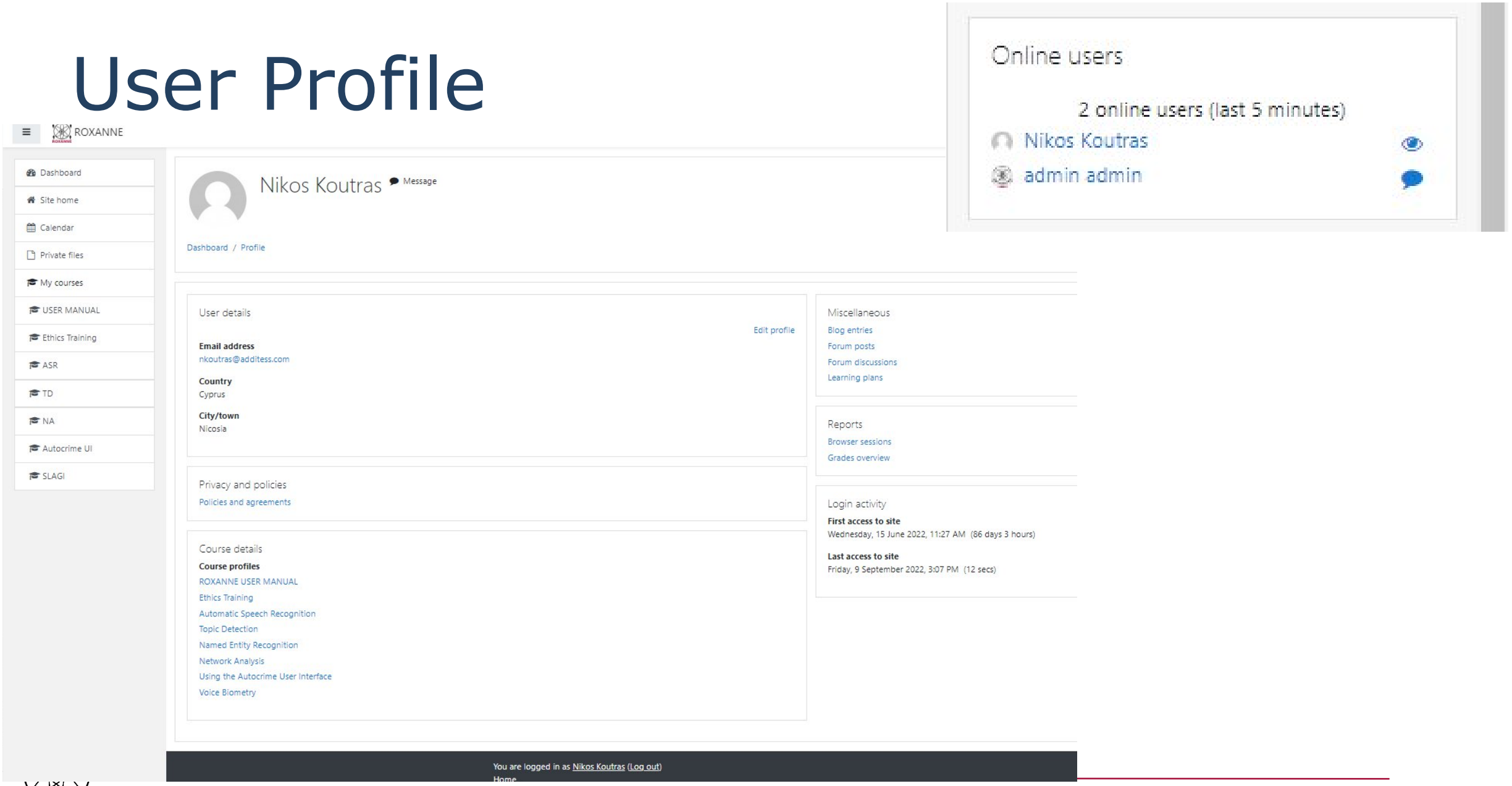
User Profile



Conclusion

- The training material is documented in order to familiarized the non-experts to the usage of high-tech components.
- Future updates on training content will allow interactive training sessions and workshops
- The trainees will be able to “asynchronously” attend online courses related with the tools of ROXANNE project.
- Announcements, calendar and more tools are available…
- Blogs and direct messages will establish a communication channel between members of a course

Conclusion

- Live demo

https://roxanne.kemea-research.gr/course/index.php

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Thank You

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