

# Agenda

- 1. Key concepts and goals
- 2. Needs and constraints
- 3. Architectural decisions
- 4. Status & Activities
- 5. Help needed





## Key concepts

- Interoperability and flexibility
  - System should provide 3 ½ way data input:
    - 1 Manual hand editing with web based user interface
    - 1 File templates based (Excel file templates filled with data)
    - 1 Fully automatic API
    - $-\frac{1}{2}$  Data import from OpenEducation Endpoints on a user request to be discussed.
- UX focused on four main roles:
  - Student separate with dedicated to student needs filtering course catalog
  - Core IT Officers recognition, harmonization, reporting
  - IT Officers course management, grades and credits, issueing credentials
  - Course coordinators
- Motto:
  - "data should be entered only once by the data owner"





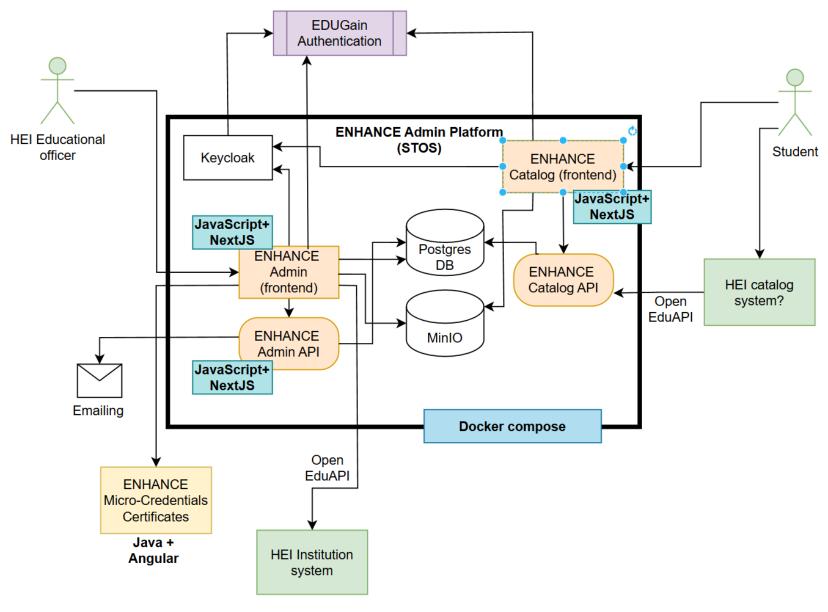
#### Needs and constraints

- Central based architecture,
- Agile development and tools,
- Modern technology to focus on functionalities and deliver highly usable product,
- Have full control on the product and all its elements,
- Design remembering about constant need of extending functionalities and data models,
- UX needs to be focused on users who are new or are using system occasionally (assistive UI),





## Architecture







### Status & Activities

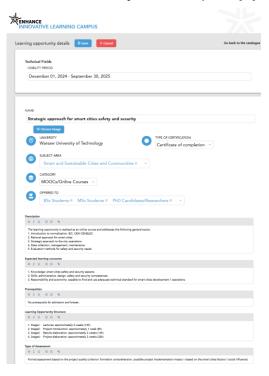
- Development team
- Internal development administration on our host
- We plan to deliver once a month a release preview since end of February to the GitHub repository with update status - but we are concerned about making it publicly available
  - https://github.com/EnhanceAlliance
- We have finished early project setup (docker, environment, database, keycloack integration (with local users database)
- To avoid "reinventing a wheel" we are following the ELM Model but significantly ENHANCE extended; we are trying to keep the general concept of the model consistent with ELM but with necessary extentions, like:
  - recognition,
  - round terms (application and recognition),
  - offered places for other universities,
  - etc.





### Status & Activities

- We follow the concept of multiligual requirement (every text literal will be possible to be entered in a
  one of predefined languages the default will be english)
- As a first step we will try to reproduce required fields and data structure of the PoliMI system and migrate this data to our system (mapping to ELM model).

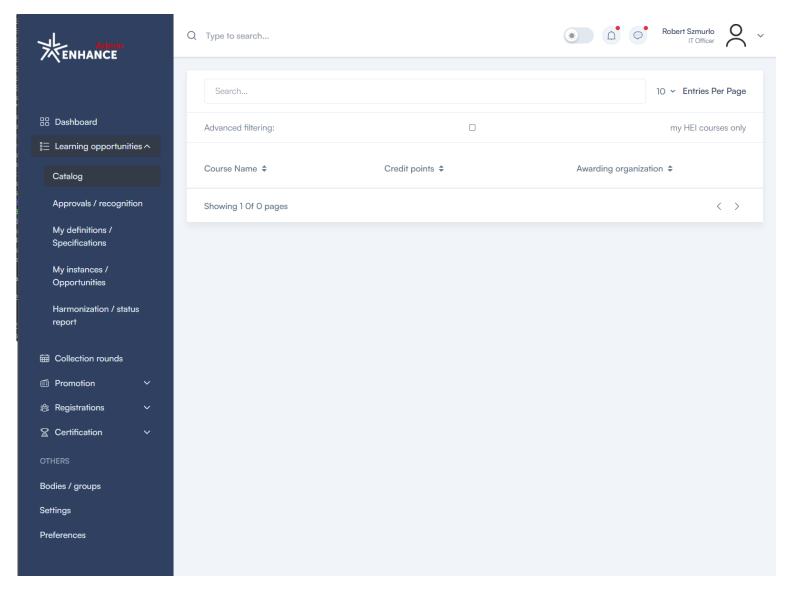








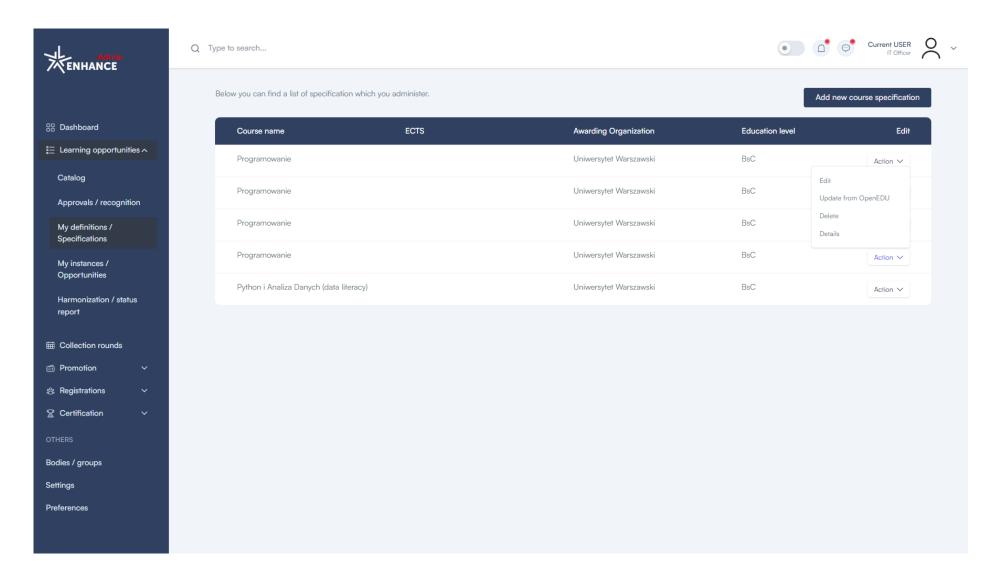
# Very early working prototype – opportunities editor







# Very early working prototype – my specifications



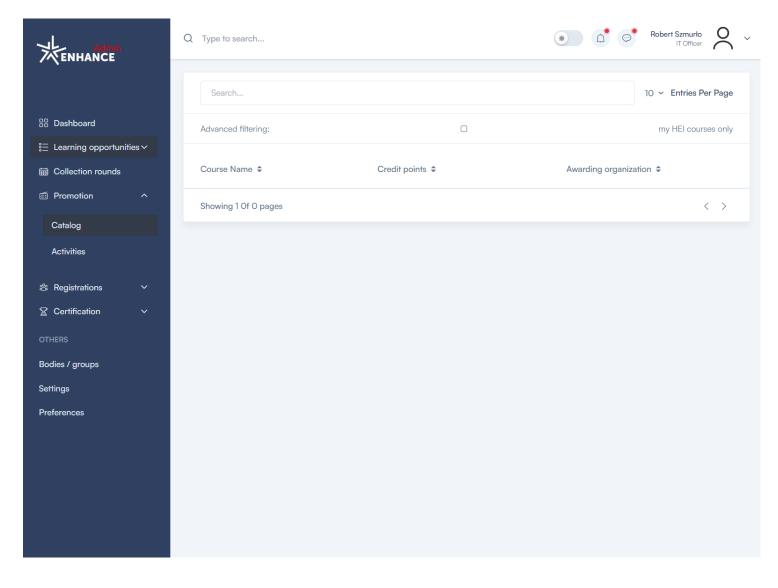




# Very early working prototype – promotion

#### Purpose:

- controlling dissemination activities (text and graphics content between parties)
- distributing files and information,
- Newsletter lists for IT Officers.



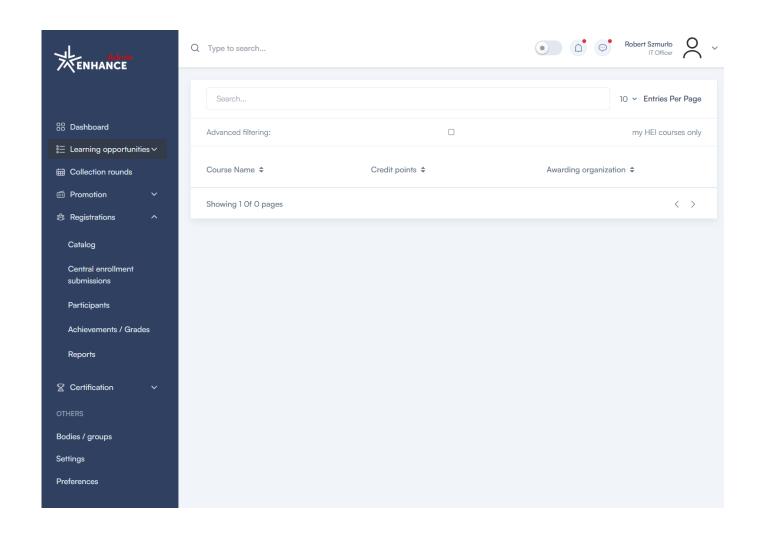




## Very early working prototype – registrations

#### Enrolements:

- Course edition based catalog,
  - Contains HEI based enrollments or central enrollments
- Central enrolment submissions
- By participants (student based) enrolments,
- Achievements and grades
- Reports about participation / succes rate / simple dropout analysis / etc.



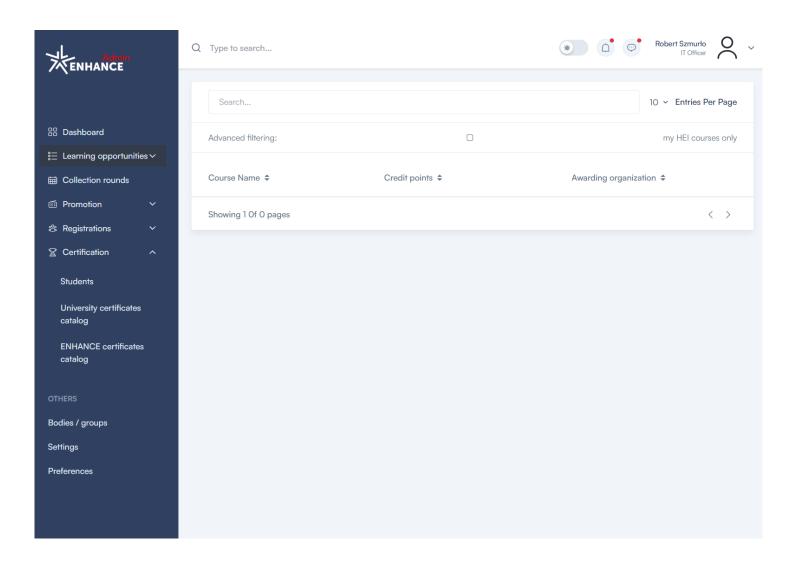




## Very early working prototype – Certification

#### Certificates:

- By participants (student based) enrolments,
- University certificates catalog (certificates issued solely by individual HEIs platform)
- ENHANCE certificates (list of certificates issued by central ENHANCE platform – to be chosen!)







## Help needed

- We know that CERN uses Keycloak and integrates with eduGAIN (<a href="https://auth.docs.cern.ch/">https://auth.docs.cern.ch/</a>, <a href="https://auth.docs.cern.ch/">https://auth.docs.cern.ch/</a>, <a href="https://auth.docs.cern.ch/">https://auth.docs.cern.ch/</a> <a href="https://auth.docs.cern.ch/">https://auth.docs.cern.ch/</a
- eduGAIN: Does ETH Zurich use and have experiences with Keycloak integration with eduGAIN?
  - technical configuration resources,
  - what is needed to be done on a keycloack server in form of a guide,
  - (source: <a href="https://dev.vseth.ethz.ch/concepts-and-design-principles/student-innovation-platform-sip">https://dev.vseth.ethz.ch/reference/authentication</a>).
- OpenEDU API: Can we be provided with some examples to publicly available resources of real courses data? Some links or other resources would be very helpfull? Maybe from your host institutions.









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