

Report on the thesis wizard



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EDURES: Technology education in the digital era supported by the significant use of research results*

Intellectual Output 2: *Development of the digital platform methodologies for utilization of research results in technology education.*

Intellectual Output 2 lead:

POLITECHNIKA RZESZOWSKA IM. IGNACEGO ŁUKASIEWICZA

Project partners:

- POLITECHNIKA RZESZOWSKA IM. IGNACEGO ŁUKASIEWICZA
- CENTOFORM SRL
- NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA
- HOCHSCHULE FURTWANGEN

Programme: Erasmus+

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Action Type: Strategic Partnerships for higher education

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Project card: <https://ec.europa.eu/programmes/erasmus-plus/projects/eplus-project-details/#project/2020-1-PL01-KA203-082219>



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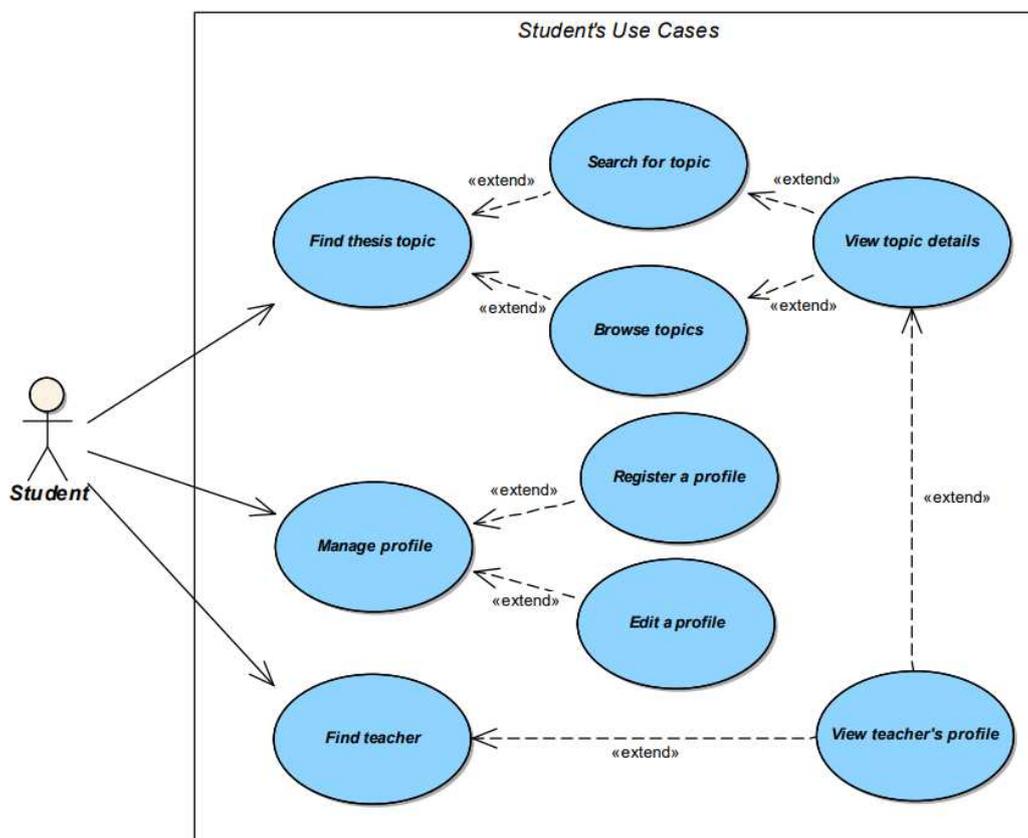
1. Vision of the solution

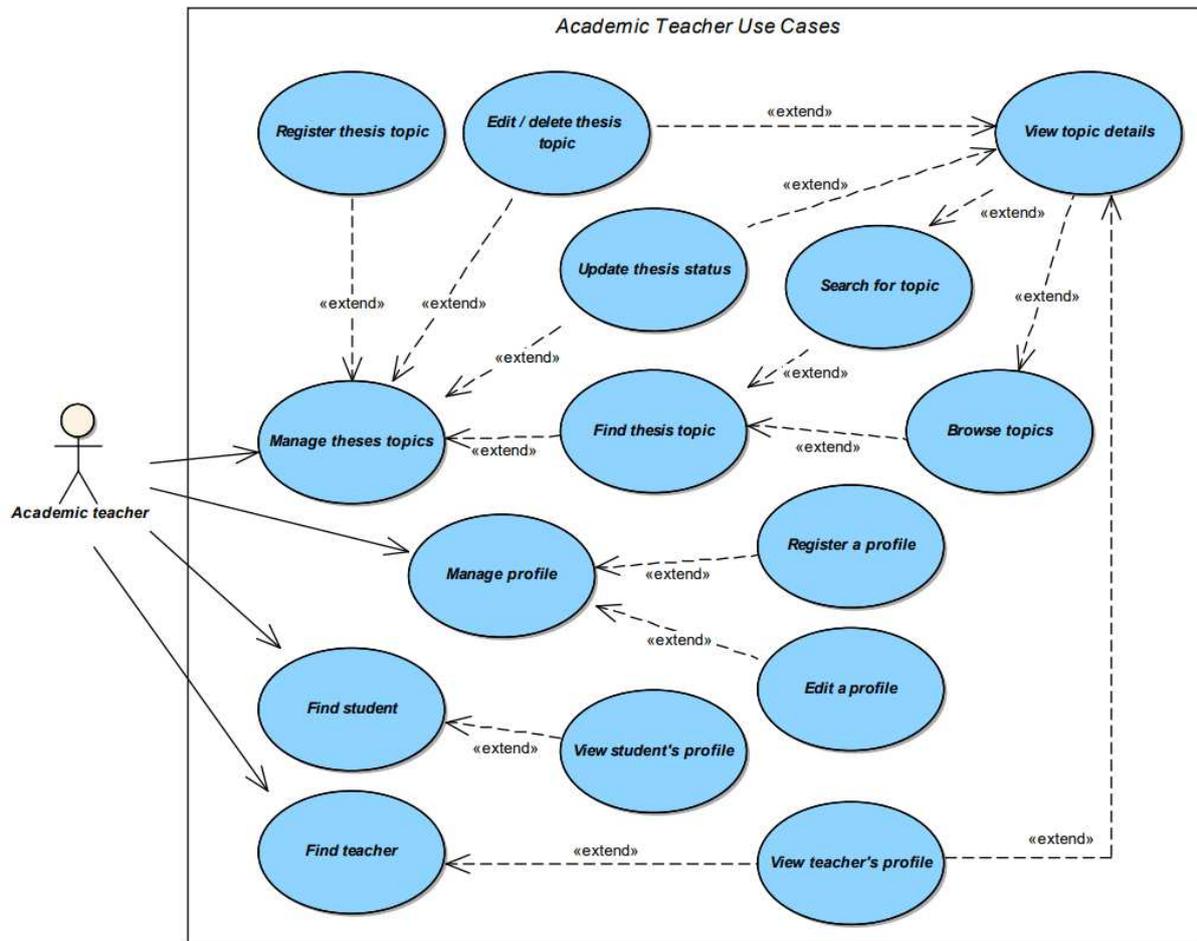
Thesis Wizard website was created for students looking for a supervisor and academic teacher conducting diploma theses (engineering, bachelor and master's). This website allows supervisors to publish their theses topics and students to find a thesis topic closely related to their interests and field of study, with a supervisor in accordance with his/her area of research and finally to establish rules for further cooperation. The platform should accelerate the process of selecting a supervisor and increase its accuracy, which will positively influence the level of students' involvement and satisfaction during the entire process of writing the diploma thesis.

Thesis Wizard is a responsive web application, implemented as a universal module, which can be implemented in the IT infrastructure of each partner university after meeting the technical requirements.

2. Solution scope

Two user roles have been defined on the website - teacher and student. Use cases for each of the roles are presented below.





3. List of solution's features

Thesis Wizard website offers the following features for users:

a) Teacher registration

Teacher can create account by completing "Teacher registration" form. Information such as first name, last name, e-mail address, password, academic degree and university name is required to successful completion of the registration process.

b) Student registration

Student have to completing "Student registration" form in order to create account. This process requires providing first name, last name, e-mail address, password and university name by student.

Full activation of the teacher or student account requires confirmation of registration by clicking the link received in welcome email.

c) Theses topics publication

This feature allows Teacher to adding new thesis topic. It uses a form called “Add new thesis topic” which contains some details of the proposed thesis and information about field of study and specialization for which the thesis is dedicated.

d) Presentation of theses topics

All published theses topics are presenting as a list in subpage called “Catalog” which is available only for logged in users. Each item of the list contains the following information: thesis topic, fragment of its description, thesis type and personal information of supervisor. Users can check all the details of thesis topic by selecting the "Read more" button.

e) Search for thesis topic

In subpage “Catalog” the website search engine is available. Thanks to the possibility of typing the keywords or selecting thesis type, university or thesis status from the drop-down list, this tool helps user to find appropriate thesis topic.

f) Search for teacher/ student

Subpages called “Teachers” and “Students” contain lists of registered users. The teacher catalog is available to all logged-in users, however only teachers have access to the student catalog. Additionally, a search engine has been placed in each catalog.

g) Teacher profile presentation

All information provided by teachers during registration is presented in their profiles. Moreover, each teacher can complete their profile with additional information, such as: profile picture, faculty, department, publication links, teacher university website and interests. And furthermore, in profile tab “Theses topics” the list of theses topics published by teacher is displayed.

h) Student profile presentation

The process of creating a student and teacher profile is similar. Initially, the information provided by the students during registration is presented in their profiles. Student can complete the profile with additional information such as: profile photo, field of study, specialization, program degree, form of study and education level at the later time.

i) Account management

Each logged in user can edit their profile (change/add/remove some information) or change password.

4. Implementation of the solution

Website will be available at: www.theses.prz.edu.pl after completion of the technical and formal works. Points a) to j) show a view of the selected solution entities.

a) A fragment of the home page for an unlogged user

The screenshot shows the home page of the Thesis Wizard website. At the top, there is a navigation bar with the EDURES logo (Education Research) and menu items: Home, About us, Catalog, Teacher registration, Student registration, and Login. The main header features a large image of people in a meeting, with the text "THESIS WIZARD" and "Here is where your thesis begins". Below this is a button labeled "CATALOG OF THESES TOPICS".

The middle section is titled "How does it work?" and contains three steps:

- Search for thesis topic**: Represented by a magnifying glass icon.
- Contact of students and teachers**: Represented by a speech bubble icon.
- Publication of theses topics**: Represented by a megaphone icon.

The bottom section is titled "About Thesis Wizard" and includes a quote:

“ Thesis Wizard website was created for academic teachers and students. This website allows supervisors to publish their theses topics and students to find a thesis topic closely related to their interests and field of study, next contact a potential supervisor and establish cooperation. The platform should accelerate the process of selecting a supervisor and increase its accuracy, which will positively influence the level of students' involvement and satisfaction during the entire process of writing the diploma thesis.

b) Teacher's registration form

First Name *	Academic Degree *
<input type="text"/>	<input type="text"/>
Last Name *	University Name *
<input type="text"/>	<input type="text"/>
E-mail address *	Show privacy policy
<input type="text"/>	<input type="checkbox"/> Please confirm that you agree to our privacy policy
Please use your official email address from your university!	<input type="button" value="Register"/>
Password *	
<input type="password"/>	
Confirm Password *	
<input type="password"/>	

c) Teacher's profile



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Contact information: E-mail Address: w.lis@prz.edu.pl

Academic Degree: Assistant Professor
Publication link: <https://publicationlink.org/>

University Name: RZESZOW UNIVERSITY OF TECHNOLOGY
Teacher University Website: <https://universitywebsite.prz.edu.pl/>

Faculty: Faculty of Mechanical Engineering and Aeronautics
Interests: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque sagittis scelerisque erat sed vestibulum. Ut sed laoreet mi, et vestibulum metus. Donec sit amet hendrerit enim.

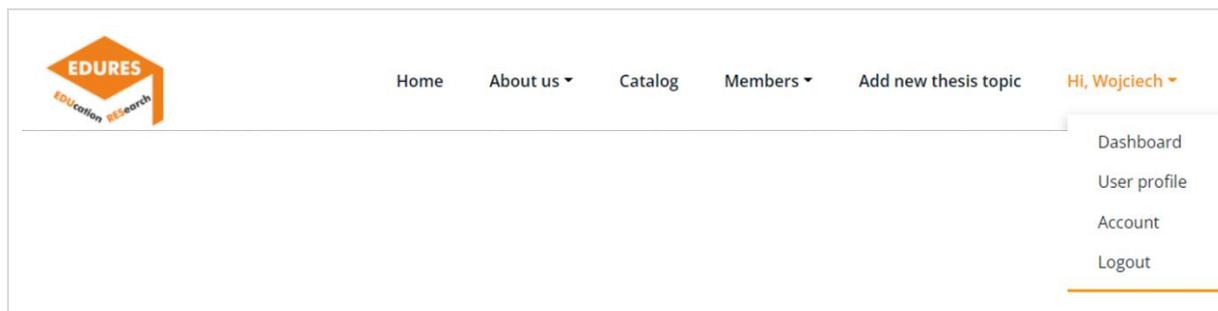
Department: Dept of Manufacturing Processes and Production Engineering

[About](#) [Theses topics](#)

Designing data models in the Power BI Desktop for the system of key performance indicators
2 months ago • in: [Master's thesis](#) • [no comments](#)

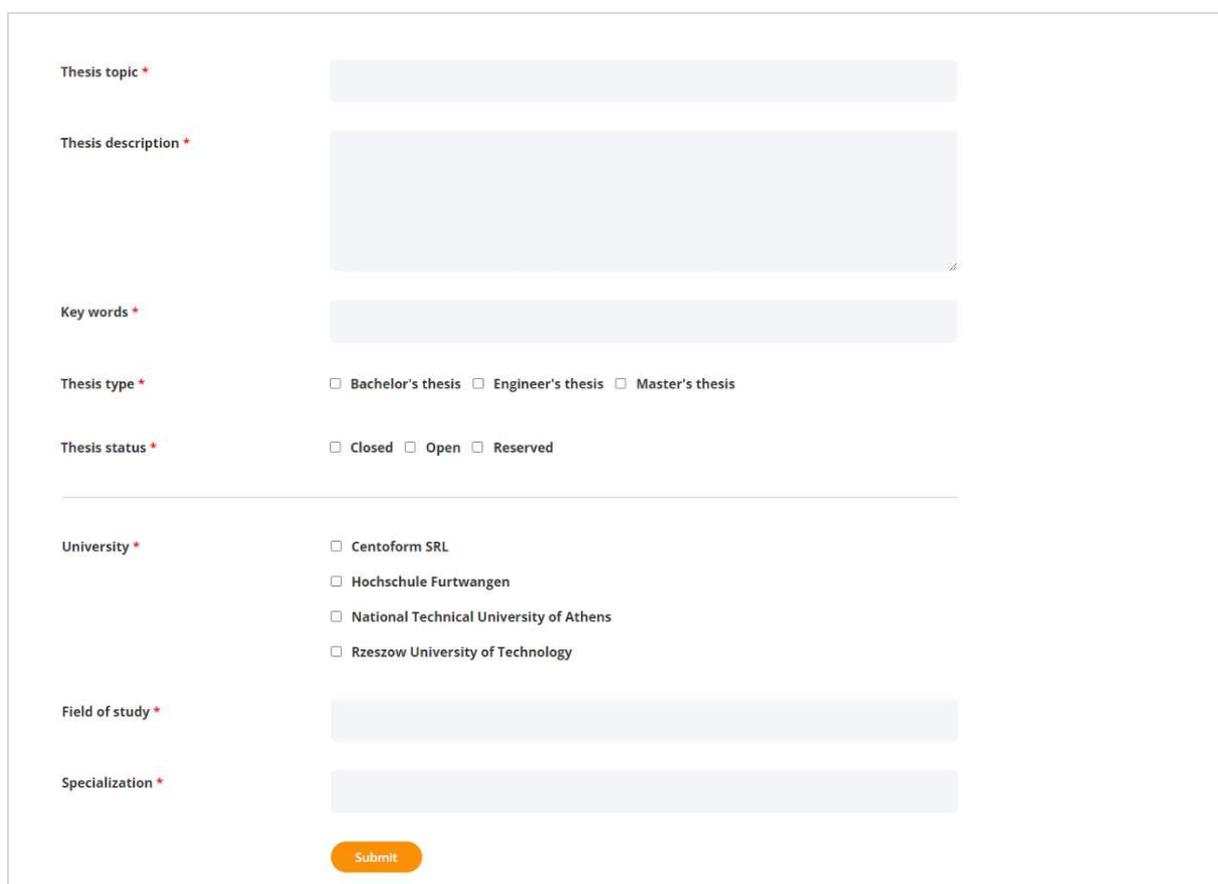
Methodology for the selection of key performance indicators and their implementation in the form of a dashboard.
2 months ago • in: [Engineer's thesis](#) • [no comments](#)

d) Menu for logged in teachers



The screenshot shows the top navigation bar of the EDURES website. On the left is the EDURES logo, which consists of an orange house-like shape with the text 'EDURES' inside and 'EDUCATION RESEARCH' written below it. To the right of the logo are several navigation links: 'Home', 'About us' (with a dropdown arrow), 'Catalog', 'Members' (with a dropdown arrow), 'Add new thesis topic', and 'Hi, Wojciech' (with a dropdown arrow). A dropdown menu is open under 'Hi, Wojciech', listing four options: 'Dashboard', 'User profile', 'Account', and 'Logout'. The 'Logout' option is highlighted with an orange underline.

e) Form for adding a new thesis topic



The screenshot displays a form for adding a new thesis topic. The form is organized into several sections. The first section contains four input fields: 'Thesis topic', 'Thesis description', 'Key words', and 'Thesis type'. The 'Thesis type' field has three radio button options: 'Bachelor's thesis', 'Engineer's thesis', and 'Master's thesis'. The second section contains one input field: 'Thesis status', with three radio button options: 'Closed', 'Open', and 'Reserved'. The third section contains one input field: 'University', with four radio button options: 'Centoform SRL', 'Hochschule Furtwangen', 'National Technical University of Athens', and 'Rzeszow University of Technology'. The fourth section contains two input fields: 'Field of study' and 'Specialization'. At the bottom of the form is a blue 'Submit' button.

f) Student's registration form

First Name *	<input type="text"/>	E-mail address *	<input type="text"/>
Last Name *	<input type="text"/>	Please use your official email address from your university!	
Password *	<input type="password"/>	University Name	<input type="text" value=""/>
Confirm Password *	<input type="password" value="Confirm Password"/>	Show privacy policy	
		<input type="checkbox"/> Please confirm that you agree to our privacy policy	<input type="button" value="Register"/>

g) Student's profile



Ala Kot
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Contact information:	E-mail Address
	142452@prz.edu.pl
University Name	Specialization
RZESZOW UNIVERSITY OF TECHNOLOGY	Information Technology in Business Management
Field Of Study	Program Degree
Management and production engineering	Engineering
Form Of Study	Education Level

h) Menu for logged in students



Home About us ▾ Catalog Teachers Hi, Ala ▾

- Account
- Logout

i) Catalog of theses topics

Engineer's Thesis

The issue of measuring the surface roughness of the parts of machinery and the determination of the surface geometric structure parameters in the selected numerical environment

By Maria Wilk · 6 October 2021

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque sagittis scelerisque erat sed vestibulum. Ut sed laoreet mi, et vestibulum metus. Donec sit amet hendrerit enim. Phasellus in lobortis tellus,...

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Engineer's Thesis

Designing data models in the Power BI Desktop for the system of key performance indicators

By Maria Wilk · 6 October 2021

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Search thesis topic

Thesis type ▾

University ▾

Thesis status ▾

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j) Catalog of teachers

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