



**MICRO**-credentials  
Identifying,  
**DE**veloping, testing and  
**AS**sessing innovative approaches



Project number: 101132889 - MICROIDEA - ERASMUS-EDU-2023-PI-FORWARD

## One skills self-assessment tool

**WP 1** | Activity 1.5

Developed by the University of Peloponnese | March, 2025



Co-funded by  
the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.

## Table of Contents

---

A. Introduction.....	2
B. Overview of the Skills Tool .....	2
C. Methodology and Technical Description .....	3
D. Job Recommender Web Application Demo .....	5

## Table of Figures

Figure 1: Process – AI Agent Recommender .....	3
Figure 2: Process – AI Agent Recommender (Job recommendation - Upskilling/Reskilling Recommendation) .....	4
Figure 3: Job Recommender Web Application Demo.....	5
Figure 4: Welcome Screen.....	5
Figure 5: Login Functionality .....	6



### Ecological Thinking!

Think before printing if it is necessary. In case something needs to be printed, it is worth thinking about where to print it (e.g., local print shop, ecofriendly online print shop, etc.), on what kind of paper (e.g., recycled paper, grass paper, other alternatives to usual white paper) and with what kind of colors.

**Let's protect our environment!**

## A. Introduction

---

This report presents the **One Skills Self-Assessment Tool**, a key outcome (Deliverable D1.5) of **Work Package 1** within the **MICROIDEA project**, co-funded by the **European Union under the ERASMUS+ programme**. It accompanies the video showcasing the Skills Self-Assessment Tool. Designed and developed by the **Data & Media Lab at the University of Peloponnese**, the tool serves as an innovative digital solution that enables individuals—particularly job seekers and adult learners—to identify their **upskilling and reskilling needs** through a structured and intuitive self-assessment process. Based on these assessments, the tool generates **personalized training recommendations**, aligned with individual skill gaps and professional goals.

The structure of this report is organized into seven sections:

- It begins with an **overview of the tool’s purpose and functionalities**,
- followed by a detailed explanation of the **methodological and technical framework** supporting its implementation.
- The subsequent sections examine the **tool’s application in educational and professional contexts**,
- and its **alignment with the strategic goals of the MICROIDEA project**.
- Finally, the report outlines key **benefits, practical recommendations**, and a concluding reflection on the tool’s role in advancing **personalized learning and career development** within micro-credentialing systems.

## B. Overview of the Skills Tool

---

The **Skills Self-Assessment Tool** is an innovative, web-based platform designed to empower individuals—particularly job seekers,—to gain a deeper understanding of their current skillsets and identify areas in need of improvement. By engaging with a comprehensive digital path grounded in established frameworks of **transversal and soft skills**, users are guided through a systematic process of self-evaluation. Upon completion, the tool generates an **immediate, personalized feedback report** highlighting the user’s strengths and areas for development, accompanied by **tailored training recommendations**.

The tool’s primary objective is to facilitate **professional growth and employability** by helping individuals make informed decisions about their learning pathways. It not only promotes **self-awareness** and reflective learning, but also serves as a strategic instrument for aligning personal competencies with the demands of the evolving labor market.

Designed with flexibility and interoperability in mind, the Skills platform can be **seamlessly integrated into broader Microidea digital ecosystem**, to enhance career guidance systems, and facilitate reskilling initiatives. Its adaptability makes it suitable for diverse use cases, from supporting **micro-credentialing schemes** to complementing **lifelong learning strategies** at both institutional and policy levels.

## C. Methodology and Technical Description

At the heart of the One Skills Self-Assessment Tool lies the **AI Agent Recommender**, a sophisticated system that streamlines the process of connecting users with relevant job opportunities and skill development pathways. The methodology follows a **structured, multi-step approach**, beginning with the submission of a user query—typically based on their professional profile, learning interests, or career aspirations.

Once a query is received, the system enters the **Agent Block**, which initiates a dynamic information retrieval pipeline. The pipeline executes a sequence of actions:

1. **Retrieving relevant documents** (i.e., job postings or training offers) from indexed datasets.
2. **Formatting the retrieved content** into a consistent structure suitable for semantic evaluation.
3. **Constructing prompts** that feed a large language model (LLM) to assess the alignment between the user's query and the available data.

Using natural language understanding, the AI **evaluates the relevance** of each document to the user's query. If relevant results are found, they are presented to the user. In cases where no high-confidence matches exist, the system **automatically refines and reprocesses the query**, enabling an **iterative loop** that improves both precision and recall in subsequent attempts.

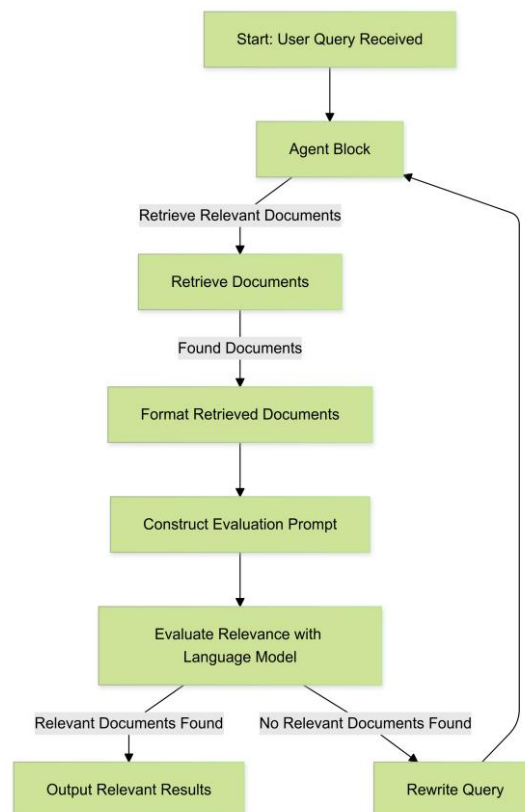


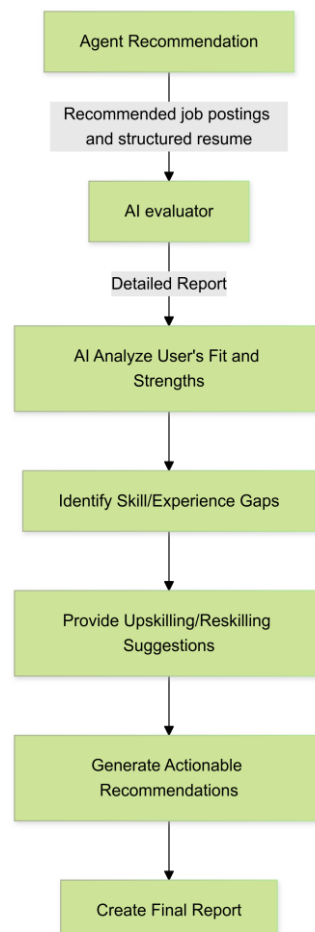
FIGURE 1: PROCESS – AI AGENT RECOMMENDER

Beyond job matching, the system performs a **deep analysis of the user's profile and professional summary**, extracting indicators of existing competencies and detecting potential gaps. Based on this analysis, it recommends personalized upskilling or reskilling pathways. These suggestions are not generic—they are **actionable, user-specific**, and designed to align directly with both current job opportunities and longer-term career trajectories.

The AI Agent also generates structured outputs such as:

- **Ranked job recommendations**
- **Resume refinement suggestions**
- **Training interventions tailored to skill gaps**
- **Final reports** summarizing the user's strengths, improvement areas, and actionable steps forward

This approach ensures that every user receives **clear, relevant, and customized career guidance**, backed by AI reasoning and real-time labor market data.



**FIGURE 2: PROCESS – AI AGENT RECOMMENDER (JOB RECOMMENDATION - UPSKILLING/RESKILLING RECOMMENDATION)**

## D. Job Recommender Web Application Demo



FIGURE 3: JOB RECOMMENDER WEB APPLICATION DEMO

The Job Recommender Web Application Demo is online at <http://103.125.217.230:7010/home/>

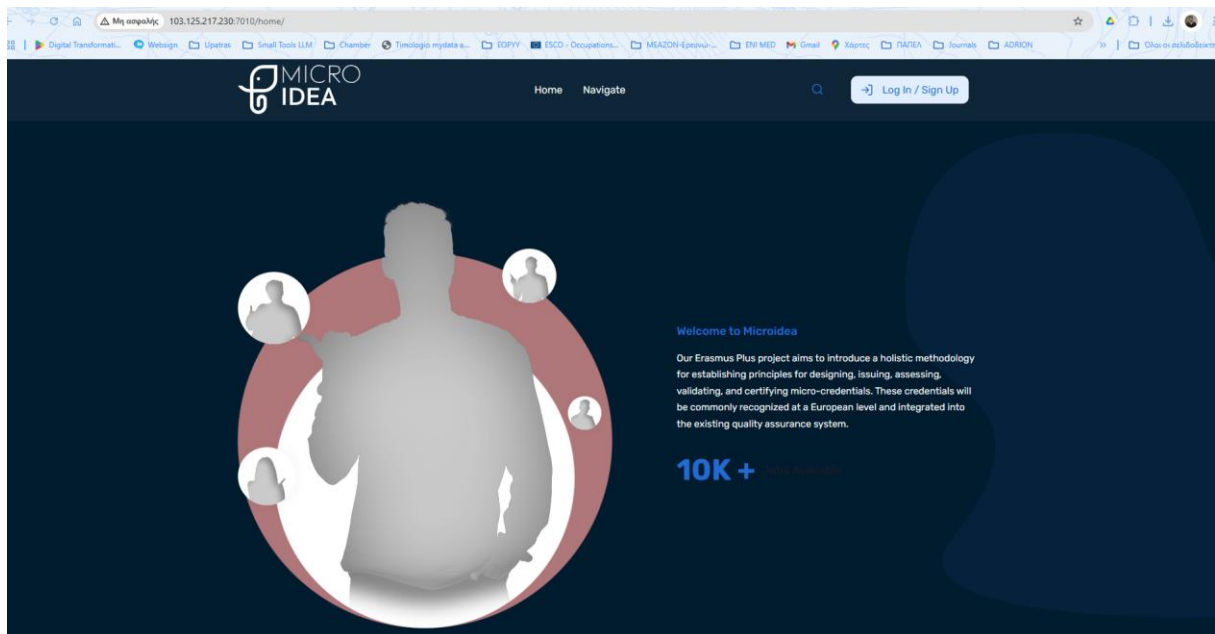
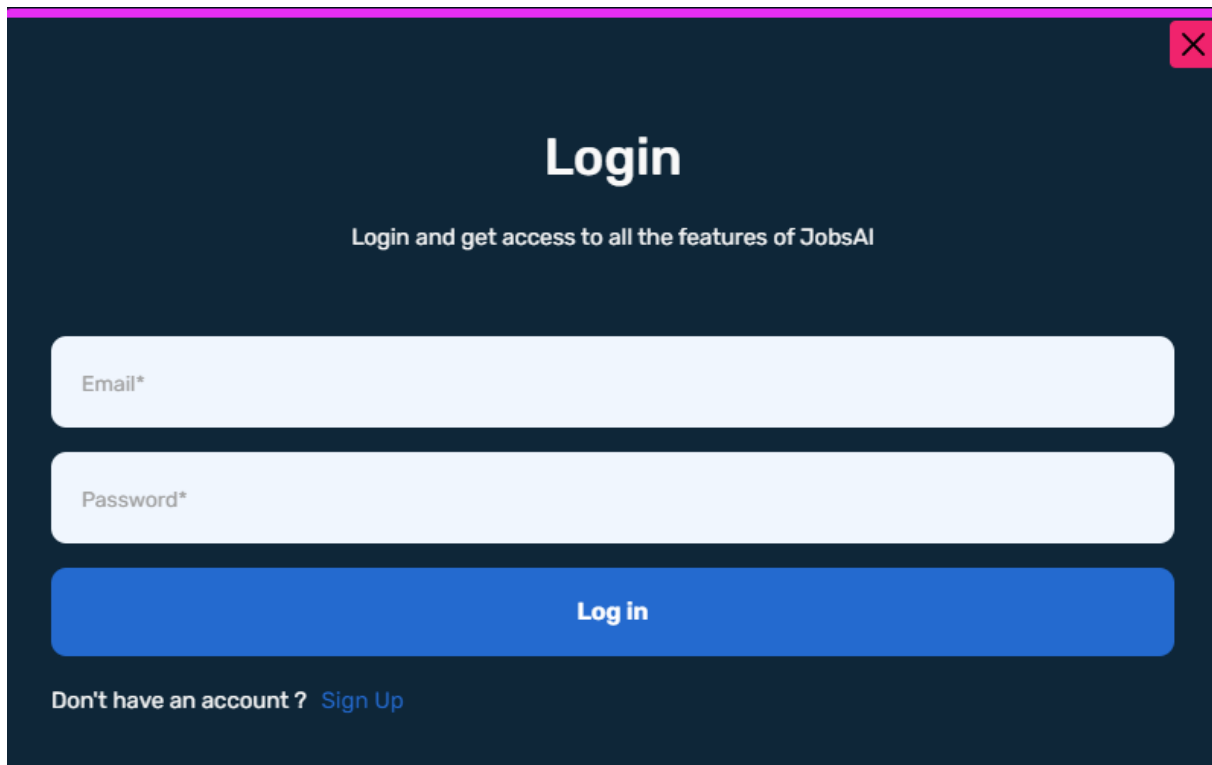


FIGURE 4: WELCOME SCREEN



**FIGURE 5: LOGIN FUNCTIONALITY**

The video attached to this report helps the user to explore the Job Recommender Web Application demo, showcasing its features and functionality. This platform leverages advanced AI to provide tailored career recommendations, match user profiles with relevant job postings, and offer actionable upskilling and reskilling suggestions.

This video demo, provides the experience of how users can register, manage their profiles, and access detailed job insights, including similarity scores and personalized recommendations. The application is designed to simplify the job search process and support skill development for career advancement.

The application offers a streamlined process for users to register their accounts, match their profiles with relevant jobs, receive tailored career recommendations, and generate professional resumes.

To access the **AI Job Recommender and Reskilling/Upskilling Tool**, users begin by creating a personal account through a secure registration process. This involves submitting standard identification details, such as an email address, a strong password, full name, and basic contact information. Once registered, users are able to log into the platform and navigate its key features through an intuitive interface.

The main functional components of the platform include:

- **Profile Management:** Enables users to input, update, and manage their personal information, including professional background and relevant biographical data.
- **Dashboard:** Offers a centralized view of user activity, presenting real-time insights and progress indicators across job applications, recommendations, and skill assessments.
- **Resume Section:** Provides tools to construct, organize, and maintain a structured digital CV, ensuring information remains current and aligned with evolving career goals.

- **Career AI Model:** Serves as the core intelligence engine that analyzes user input to deliver tailored job recommendations and targeted upskilling/reskilling suggestions.

These features collectively support a streamlined and personalized experience, empowering users to take control of their professional development through AI-enhanced decision support.

## DISCLAIMER

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.

**More information** about the **MICROIDEA** project can be found at:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/projects-details/43353764/101132889/ERASMUS2027>

# MICRO IDEA

**MICRO**-credentials  
Identifying,  
**DE**veloping, testing and  
**AS**sessing innovative approaches

## Project Partners



German-Hellenic Chamber  
of Industry and Commerce  
Ελληνογερμανικό Εμπορικό  
και Βιομηχανικό Επιμελητήριο



Scan for more



micro-idea.eu



Co-funded by  
the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.