



EURYDICE

Collaborating towards a future in renewable energy

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EURYDICE LEARNING MANAGEMENT SYSTEM (ELMS) working document

WP: 2.5 Development of industrial portal

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1. Background

EURYDICE LEARNING MANAGEMENT SYSTEM (ELMS) is a portal that will be developed and be used as a working tool for industry, offering industrial placement to students, and students, searching industrial placements. The innovative “Industrial Portal” enables the industry/university cooperation to offer matched placements for the students’ needs at different levels of education.

2. ELMS Description

ELMS (Eurydice Learning Management System) is an online portal used to link renewable energy companies to students and universities in South Africa

ELMS will be developed with the following objectives in mind:

- Career Services activities,
- Career services and graduate recruitment events management,
- Alumni management,
- Electronically keep track of all students who have acquired employment,
- Electronic records of the companies that take on students,
- A place for companies to post job adverts, vocational work, funding and projects
- A place for students to post their CVs and apply for advertised job opportunities,
- Accreditation bodies such as ECSA, DHET Reports,
- Online portfolio of evidence for students,
- Recruitment services media and resources,
- Interview process management.

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2.1. Unique Features

ELMS offers several unique features such as:

- Online storage of both students' and company data.
- Role based access control. ELMS is created for different role structures in a university namely:
 - Department,
 - Head of Department,
 - Faculty Head
 - Career services coordinator,
 - Students,
 - Company Representatives and
 - Student Mentors
- Smart summarising of students' data.
- Advanced reporting and dashboards using visual aids such as graphs for easy, quick and accurate interpretation of students' data.
- Ease of access to the system using different mediums such as smart phones, tablets and computers.
- Google maps integration.
- Android Mobile App for students. Through this app the following can be done by students:
 - Complete their Cvs,
 - Complete their transcript,
 - RSVP to recruitment programmes posted by career services,
 - View job adverts posted by career services and companies

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2.2. Framework Description

ELMS is made up four key components with data being sent between them. Figure 1 shows the complete ELMS framework with the four key components and the kind of data sent between them. In the next section we explain these components in more detail.

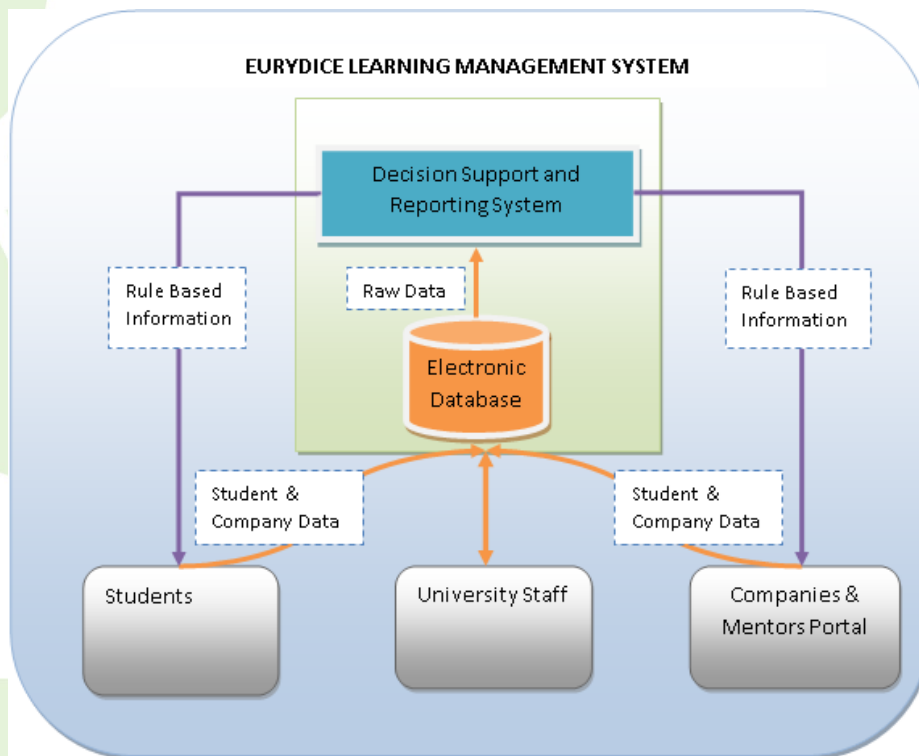


Figure 1: ELMS Framework

2.2.1 ELMS-SERVER

ELMS Server is the main component of the system. It is the brain of the system and it houses two sub components the decision support and reporting system / knowledge base and the student and company records database

- a) Electronic database: This is the central part of the system where all the career services activities, projects, students' / alumni and company data is stored. It is able to manage the cross-relations between the students and company data, departments in the university and the university staff that are allowed access to the system.



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It includes several procedures and triggers that control data consistency across all ELMS platforms, error tracking, backups and reminders and alerts.

- b) Decision Support System (ELMS-DSS): This is the rule-based knowledge base of the system that uses the stored data to create useful information and reports.

ELMS server is a centralised component and access to it is through web service API calls. Any device with the right authentication protocols and internet service will be able to have access to it.

2.2.2 University Staff Portal

This is a smart portal that will be used by different university staff members depending on their access level to manage the companies, projects and students' data.

The different university staff functions found in ELMS are:

- Add and manage recruitment programmes to prepare students like recruitment drives,
- Assist students with their CVs,
- Add and manage job adverts,
- Add and manage workshops,
- Alumni management,
- Recruitment services resources,
- Manage companies and their contacts,
- Managing WIL students information in his / her department,
- Managing the companies and mentors that have employed students,
- Managing the research projects supplied by companies,
- Monitoring of students in the field,
- Uploading projects being done at the university,
- Uploading resources for students,

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2.2.3 Student Portal

This portal will be used by students at the university with the following functions:

- Manage their online CV and portfolio of evidence,
- RSVP to events organized by companies and staff,
- Respond to job adverts,
- View the resources and projects posted

2.2.4 Company Representative and Mentor Portal

This portal is to be used by the companies with the following functions:

- Post job adverts and funding opportunities for students,
- Post vacation work / available labs for students,
- View students' cvs and portfolio,
- View and critique university projects,
- Post / upload research projects,
- Interview students (virtual),
- Post resources for students

3. Conclusion

To summarize, the main functions of ELMS are as follows:

- Track students doing their internships,
- Track companies employing our students,
- Track Alumni,
- Manage career services events and workshops,
- Manage student CVs,
- Post projects, job adverts and funding,
- Report on all career services and work integrated learning activities,
- Create surveys,
- Create blog posts,
- Smart summarize and analyse students' and company information

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