

The Experience of E-portfolios in

Student Learning Objectives

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Bologna Seminar on Development of a Common Understanding of Learning Outcomes and ECTS

PROJECT

Project of University of Porto (GATIUP):

- to implement the use of e-portfolios among the academic community;
- to promote the continuous improvement of the quality of teaching and learning.



MISSION

 Encourage the use of e-portfolios as an important tool to promote:

 \rightarrow autonomy

 \rightarrow interactivity

 \rightarrow self-assessment, peer assessment and teacher assessment





GOALS

- Collect and display a student learning journey over time;
- Create an organized and contextualized register of the initial and development phases of work progress;
- Develop a more participative, constructive, reflexive, interactive and creative attitude concerning learning experiences;
 - Tool for validating skills that aim at the construction of a digital identity.



HOW IT STARTED

- Consulting teachers to know if someone was using e-portfolios in their courses;
- Some of them were already using portfolios in paper format;
- A small group of teachers was interested in applying this new methodology (6);
- No conditions were imposed for the e-portfolio development (no software or rigid structure);
- The aim was to start slowly, be ambitious and increase the complexity gradually as the variables at stake were assimilated.



IMPLEMENTATION

- Present the project to the students:
 - clarify the concept of an e-portfolio;
 - > explain the importance of this reflective work;
 - > explain how they will be evaluated;
 - assure them support when they have technical problems.



IMPLEMENTATION (cont.)

- Discussion in class (teacher/students) of eportfolio evaluation:
 - > presence of all the elements agreed;
 - > organization;
 - selection and systematization of content;
 - research and synthesis of text;
 - reflection on learning (content, self-assessment) and hetero-assessment);

- creativity.



IMPLEMENTATION - Case Study

- Faculty of Engineering
- Construction Management
- There is a particular interest of students in this area because about two thirds of civil engineers will have jobs in this area (motivated students)
- This course uses an e-learning platform since 2004/05 (WebCT Vista)
- In 2006/07 and 2007/8 one of the homeworks was to submit an e-portfolio
- Main goal: a reflection on the course and the skills acquired



IMPLEMENTATION - Case Study [cont.]

- The students could use HTML pages, MSWord, blogs or even one of several open-source solutions
- Proposed structure on what an e-portfolio should have:
 - 1. Index
 - 2. Program
 - 3. Goals (general and specific)
 - 4. Bibliography
 - 5. Types and criteria of evaluation
 - 6. Learning platform
 - 7. Relevant texts
 - . Videos and other multimedia resources
 - 9. Required class works
 - 10. Reflections about learning
 - 11. Competences, skills, attitudes
 - 12. References and seminars participations



IMPLEMENTATION - Case Study [cont.]





IMPLEMENTATION - Quotes (A. Gonçalves - 2007)

- "I would appreciate if the Leadership theme was more detailed in the Psychology area since being a leader is to coordinate these factors in people we interact with."
 - Acknowledgement/Conscience
- "But I recognize that there is no time to debate in detail all subjects."
 - Maturity/Realism
- "I also recognize that our training allows each one of us to know the way and to research the needed knowledge and skills."
 - Lifelong Learning/Attitude to learn



IMPLEMENTATION - Quotes (A. Araújo -2008)

- "The work done ... was diverse allowing the practice of Civil Engineering"
 - Purpose
- "It was possible to acquire competences, knowledge and skills announced in the curriculum"
 - Compliance
 - The course developed autonomy, responsibility, efficiency and sensitivity for the analysis of complex problems"
 - Enrichment



IMPLEMENTATION - Case Study (cont.)

- Results:
 - outperformed initial expectations;
 - > weak point:
 - \rightarrow lack of experience of students on creation of web pages.

strong points:

- → revision of documents and submission of works was done before the period of examinations that gave to the student time to think and to prepare their exams;
- \rightarrow reference for students for subsequent years.



IMPLEMENTATION - Case Study (cont.)

- Conclusions:
 - allowed an autonomous work of each student;
 - encouraged the synthesis of the course;
 - allowed a structured reflection on learning.



CONCLUSION

- Evaluation conditioned since it required from students different skills:
 - planning;
 - constructive analysis;
 - reflective thinking;
 - redesign;
 - self-assessment;
 - critical analysis.



CONCLUSION (cont.)

- The e-portfolio is essentially a picture of the learning progress and also allows the student to share personal experiences, highlights the creativity and emotions involved in each work.
- E-portfolios are emerging as a *continuous process*. Bologna FU - FEUP, 19Jun08



FUTURE WORK

- In the future
 - improve guidelines and initial framework;
 - investigate usage the students gave to eportfolios and investigate acceptance by employers;
 - organize seminars to share information, good practices and exchange of experiences with other institutions.





Thank you!

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