PIPC »

Interactive Platform for Introduction to Clinical Practice in Nursing

KEYWORDS
- Nursing
- Nursing Informatics
- Education
- Clinical Decision-Making

PROMOTER
▸ Escola Superior de Enfermagem do Porto (ESEP)

PARTNER
▸ Unidade Local de Saúde de Matosinhos, E.P.E (ULSM)

DURATION

18 months

PRIORITY DOMAIN

Human Capital and Specialized Services
▸ Development of tailored ICT solutions (EREI Norte)
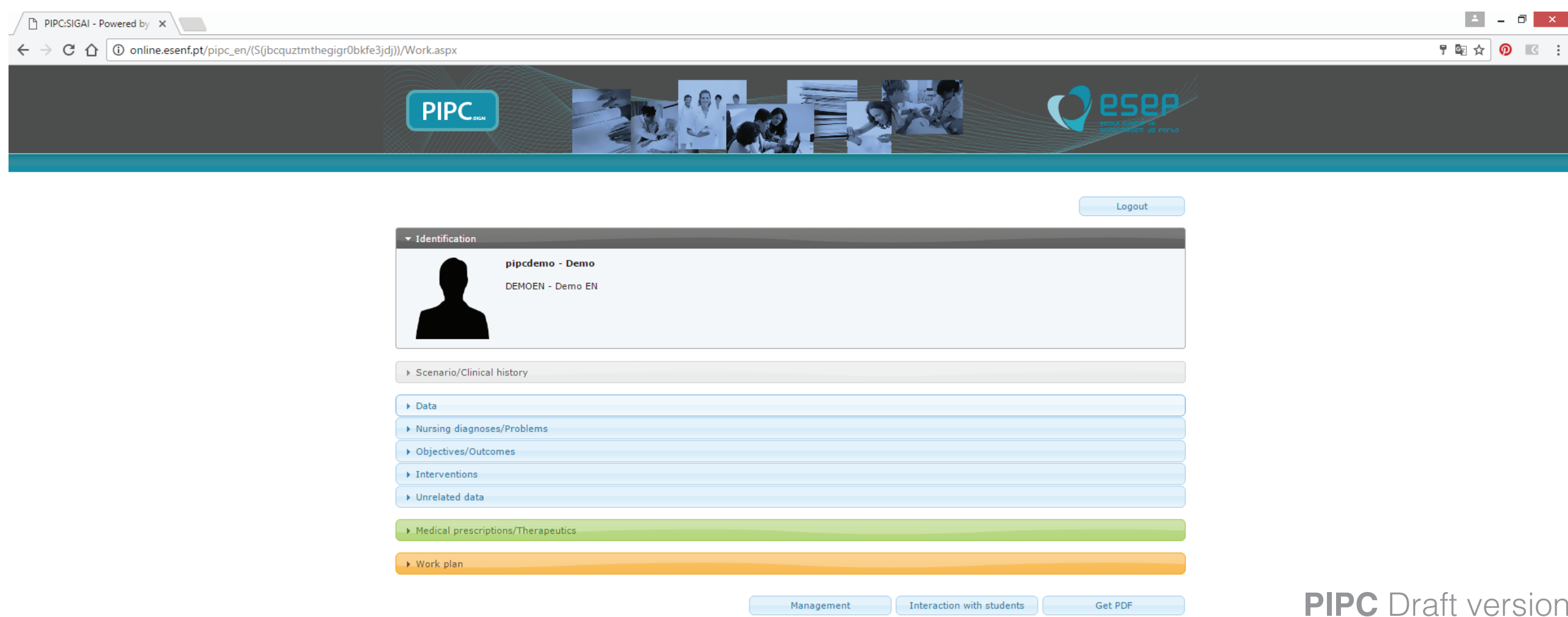
RESEARCH TEAM

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BRIEF DESCRIPTION

The study conducted by Silva (2011) enabled the development of a digital platform (web based), interactive and oriented to diagnostic reasoning and clinical decision making of students and nurses. ESEP currently uses a draft-prototype version of PIPC, but **this project aims to consolidate this platform by making it scalable according to the students' stages of development, throughout the nursing course. The PIPC usability will also be tested in other Portuguese nursing schools and health services.** Nursing classifications will be important to improve the potential of semantic interoperability. The consolidated PIPC version 1.0 is a product that is in line with the "innovation policy", identified in "Research and Innovation Strategy for Smart Specialization" (2014-2020).

OBJECTIVES

▸ To adjust the structure and applicability of PIPC, making it scalable, depending on the developmental stages of the students throughout the course;

▸ To evaluate the potential use of PIPC in other environments and formative contexts of nurses;

▸ To incorporate ICNP© as a backend of the platform, in order to increase the quality and suitability of the technical language used to explain nursing care conception.

PIPC Draft version

- ◆ Collaborations ▸ 2 ◆ Research Publications ▸ 2 ◆ Reports ▸ 1
- ◆ Advanced training ▸ 1 ◆ Other contents ▸ 20
- ◆ Computational applications ▸ 1

INVESTMENT NEEDED

▸ € 134.217,42

METHODS

The PIPC adequacy will be evaluated through focus groups of students and teachers, current users of PIPC draft version. The evaluation of PIPC usability in different environments will be tested at the Nursing Schools of Lisbon and Coimbra. Sixty students from both institutions will be recruited and, under their teachers supervision, will conduct a user trial.

To incorporate ICNP© as the backend of PIPC, we will select a random sample of 10% of the 3.000 cases included in the student's activities for 2017/2018. ICNP© will be used to specify a model to structure the system's backend information.

ACTIVITIES

1 Training of experts for the use of PIPC — 3 months

2 Content analysis of the first set of cases — 4 months

3 Draft specification of the data model — 3 months

4 Content analysis of the second set of cases — 2 months

5 Focus Group — 2 months

6 Specification of the data model & update of the front-end — 4 months

EXPECTED OUTCOMES AND IMPACT

This project, in a more fundamental perspective, has clearly a potential to evolve into a more accurate technological resource and innovative product. Hence, **we will contribute to the development of tailored ICT applications for dissemination at national and international levels.** The PIPC 1.0 version will reinforce ESEP Research Center (CIDESI) positioning within the International Council of Nurses (ICN).

In fact the incorporation of the ICNP© in the backend of PIPC version 1.0 is considered by the International Council of Nurses (ICN) as a very relevant aspect, increasing the likelihood of its international acceptance.

This solution will be an innovative software tool, positively impacting nurses' education at regional and national levels. In addition, **PIPC is likely to be a strategic market product for European partners interested in incorporating teaching/learning methods supported on innovative and scalable tools.** Despite lacking consolidation, the prototype already in use highly contributes to enhance the training of nursing students, to improve health systems and also creates an innovative and scalable product.

CONTACTS

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