Jagiellonian Medical University College

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eLearning

pharmaceutical industry & academia

different targets – same problems

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Technical issues

- eLearning platform
  - own written
  - ready to use – OpenSource, commercial

- content preparation software
- internet software (Linux - Apache, MS - IIS)

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Security issues

- platform
- published and stored data
- users data
- servers

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Users issues

- expectations
- up-to-date information
- multimedia
- user friendly interface

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eContent issues

- access to the content
- authors expectations
- content preparation
- necessary changes to keep information up-to-date
- multimedia

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Examples

- Simcyp Virtual Campus
  - platform – OpenSource Dokeos system – PHP/MySQL
  - radically changed structure due to the code and security insufficiency
  - MS infrastructure – some problems with IIS – PHP/MySQL connections
  - connected with the company website and e-payment part

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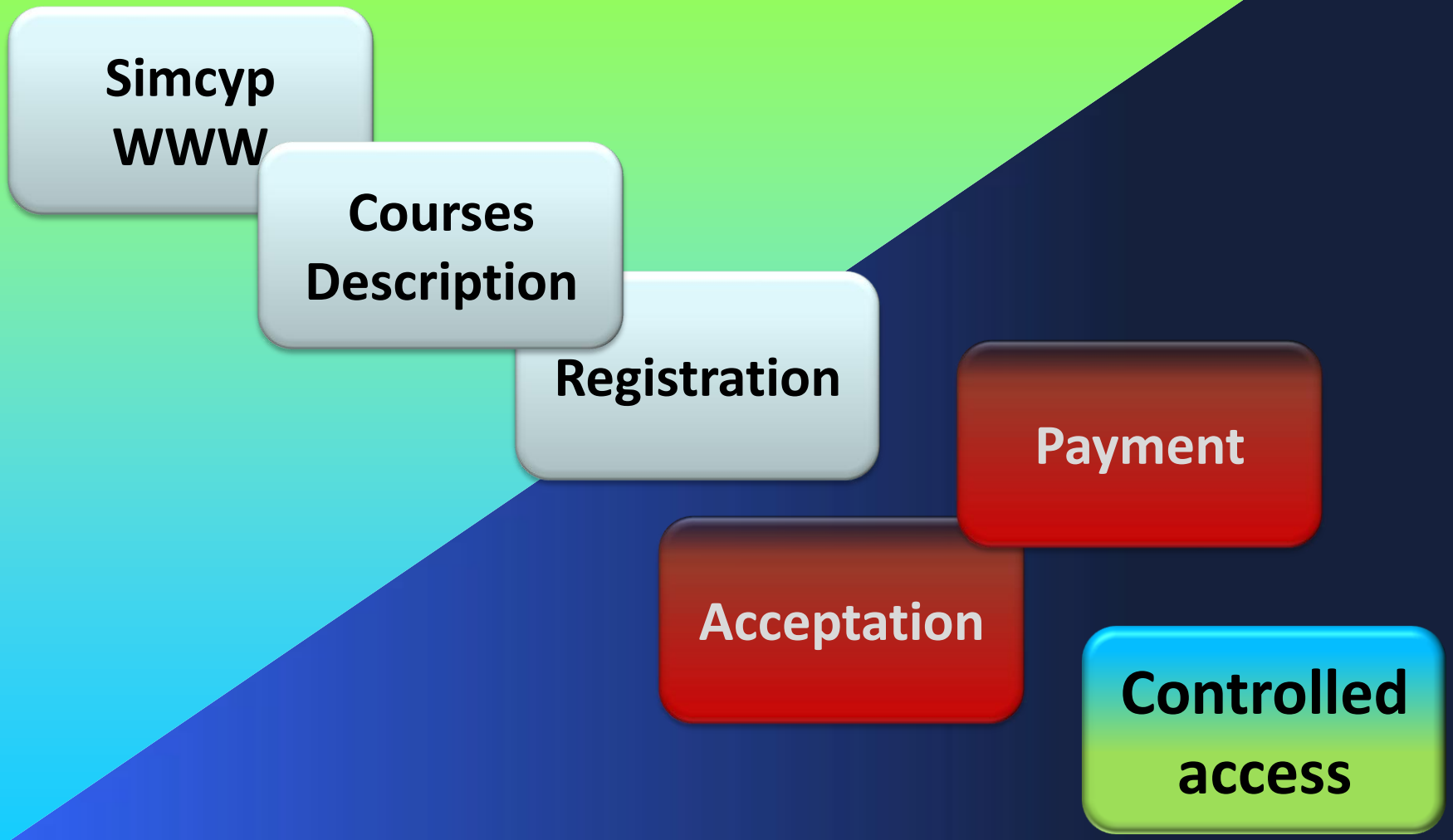
Examples – Simcyp VC structure



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Examples

- Simcyp Virtual Campus - targets
  - Simcyp Simulator current and future users
  - Consortium Members interested in recent advances in *in silico* IVIVE
  - connected with the company website and e-payment part

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Examples

- Simcyp Virtual Campus - problems
  - content – constant update!
  - simulator changes – local, server-based and web-based version
  - users expectations
  - security issues – copyrights protection

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Examples

- e-duk@cja – pharmaceutical continuing education platform
  - platform – own written system – PHP/MySQL/Java
  - flexible structure
  - cooperation with national and local pharmaceutical boards
  - Medical College JU - meritorius patronate (Scientific Advisory Board)

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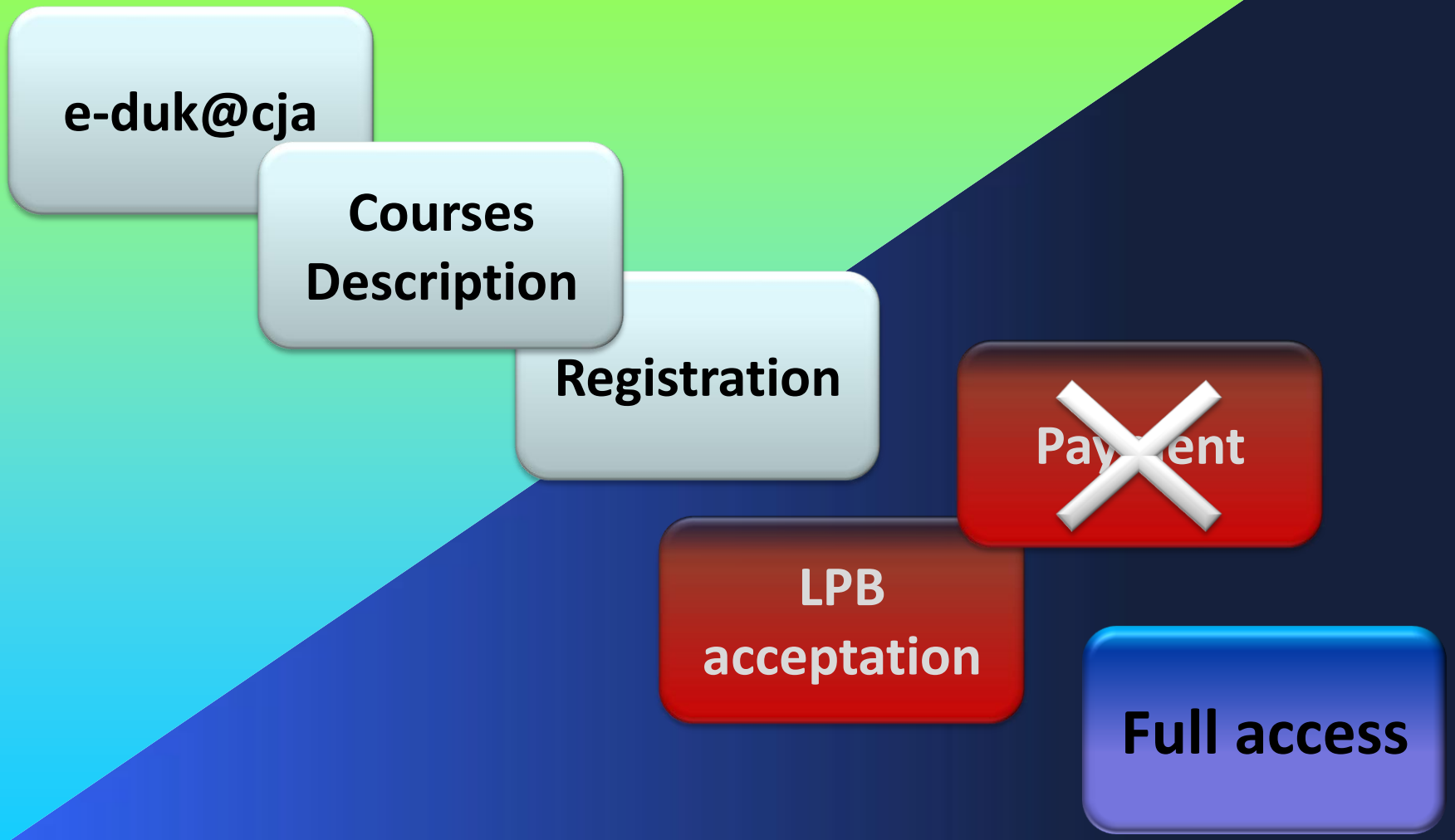
Examples – e-duk@cja structure



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Examples

- e-duk@cja - problems
  - content – constant update!
  - Central Commision for Medical Education guidelines
  - users expectations
  - scale problem – ca. 8000 users
  - security issues – copyrights protection

- E-repository
  - A system for storage, management and dissemination of information
  - Categories of information
  - Database-driven (PHP/MySQL)
  - Interfaces for each country e-learning system

- E-repository functionality
  - Searchable database with e-content categorization/grouping
  - E-content as XHTML/XML and binary files: documents, multimedia etc.
  - Multilanguage interface
  - Workmode similar to the e-learning system (search and download/upload)

- E-repository
  - Database-driven system (Open Source: Linux, PHP, MySQL, Apache, ...)
  - Produced and maintained in Cracow
  - Tree-like structure
  - Simply operated via web browser (platform independent)

- E-repository structure
  - Course 1 (e.g. Interactions)
    - Module 1(e.g. PK interactions)

files
- Text
- Graphics
- Multimedia
- TEST
- Other…

categories
- Category (CLINICAL/INDUSTRIAL)
- Activity type (face-to-face, etc.)

recommendations (tutor/student)
- Discussion issues
- Individual work
- Group work

- E-repository safety ensurance
  - E-content stored directly in the database
  - Unique solution – no physical files on the server
  - Securing the server and maintenance (Cracow)

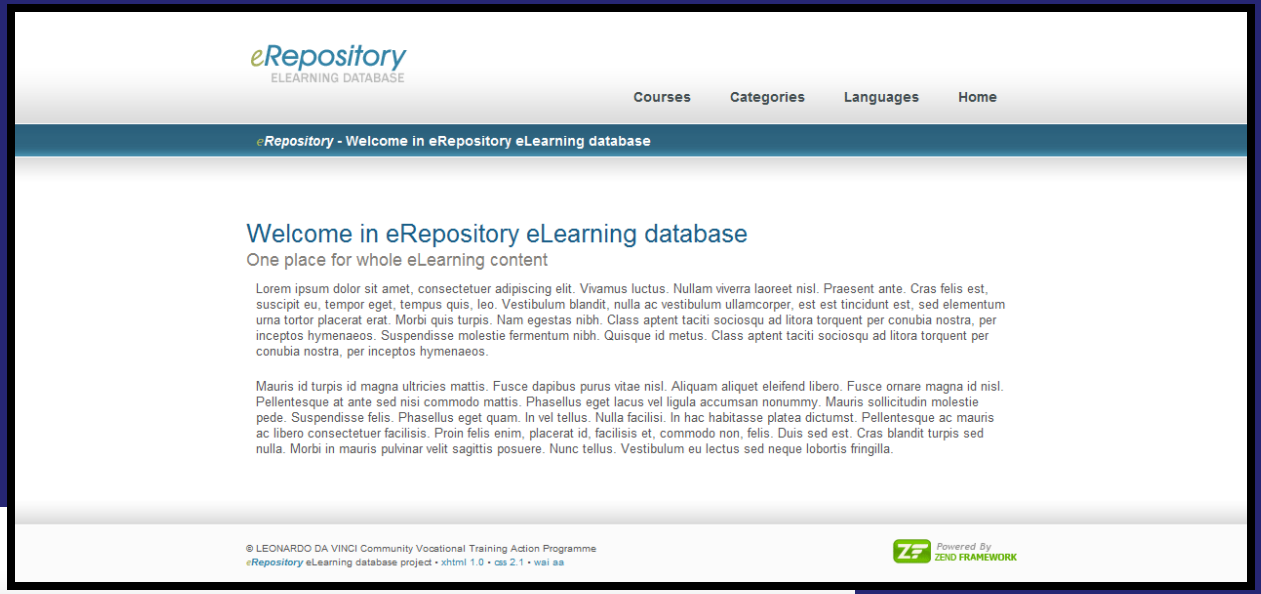
    - login logs audit

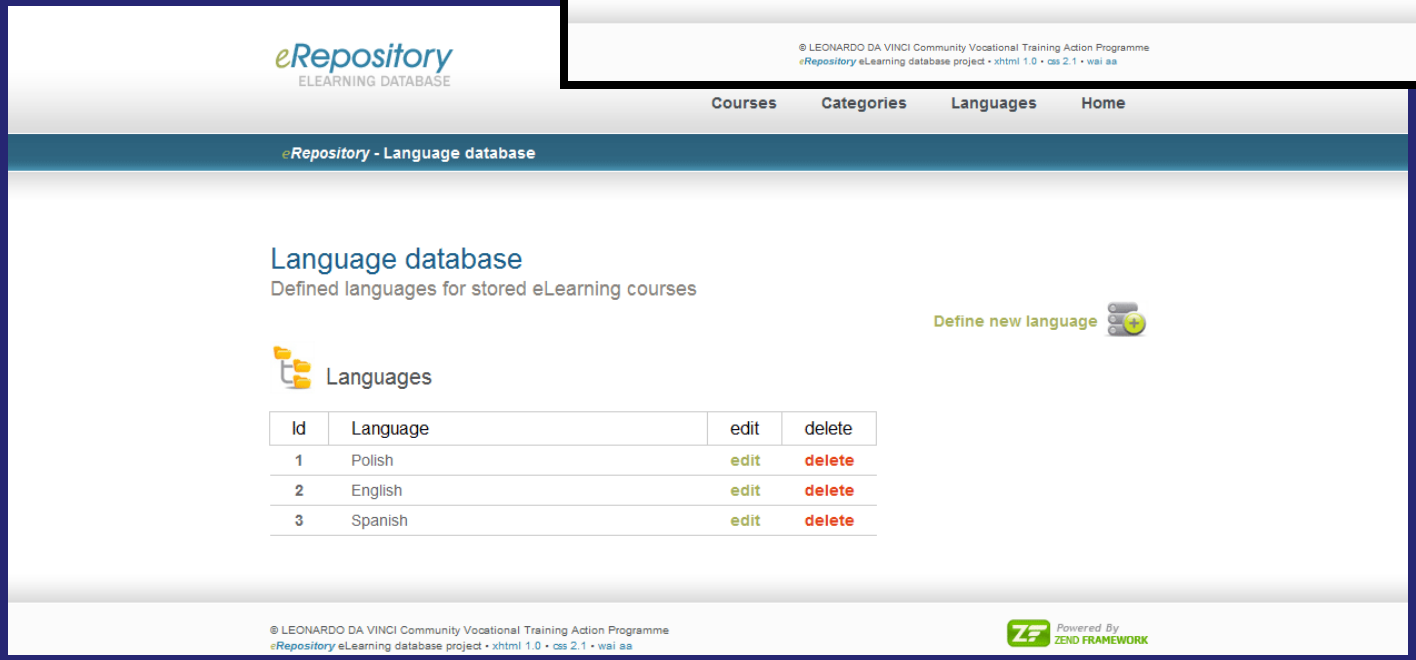
    - administrator cell phone as monitoring station

    - automatic backup system

- E-repository features:
  1. Hierarchy of users
     a) central administrator
     b) regional admin
     c) tutor
     d) guest
  2. Interface localization
  3. Search engine
  4. Courses aggregation for annual/interim/ad hoc reports
  5. HTML as a default file format
  6. Open Office – the default wordprocessor

- eRepository





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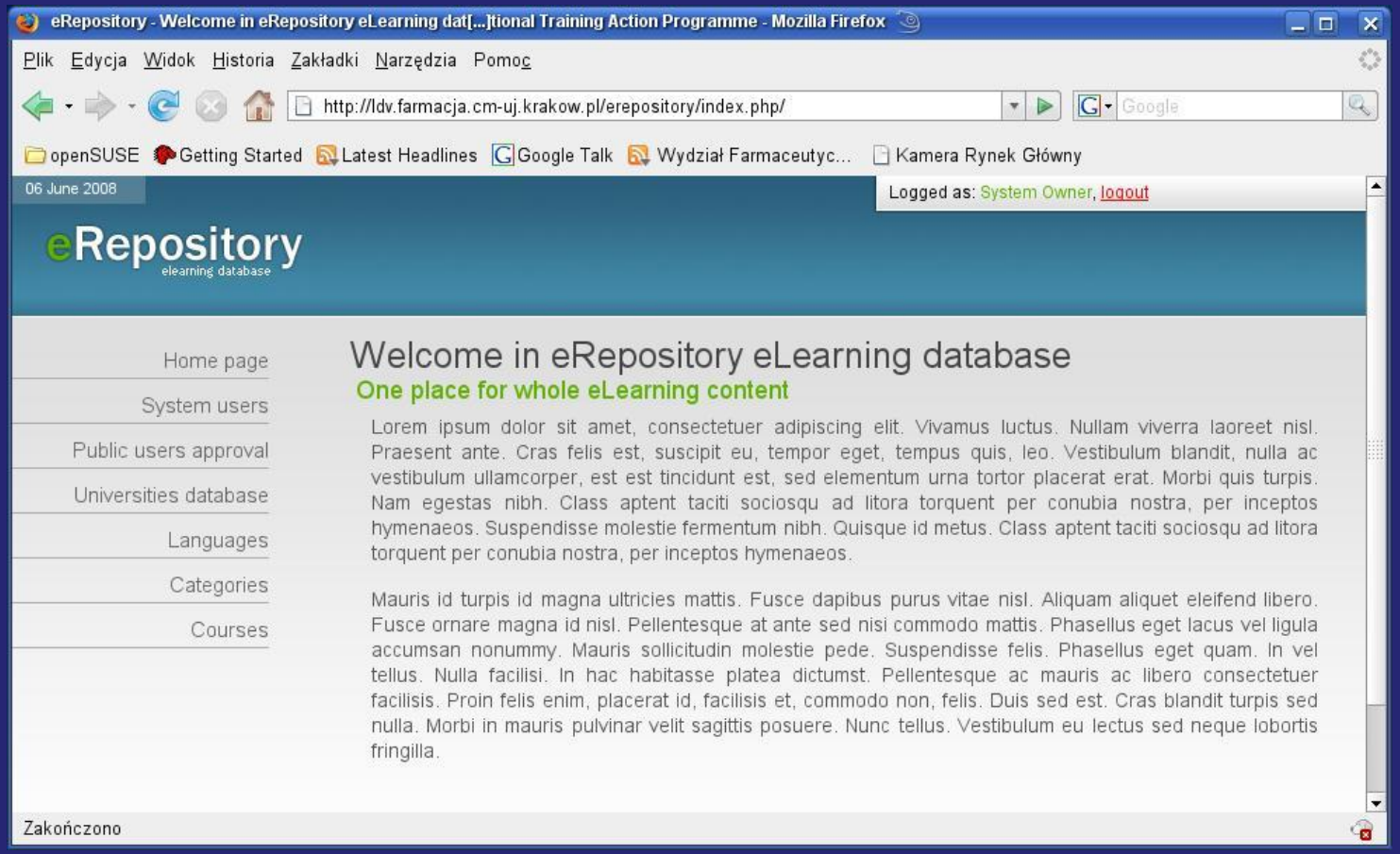
Faculty of Pharmacy

Leonardo da Vinci Project



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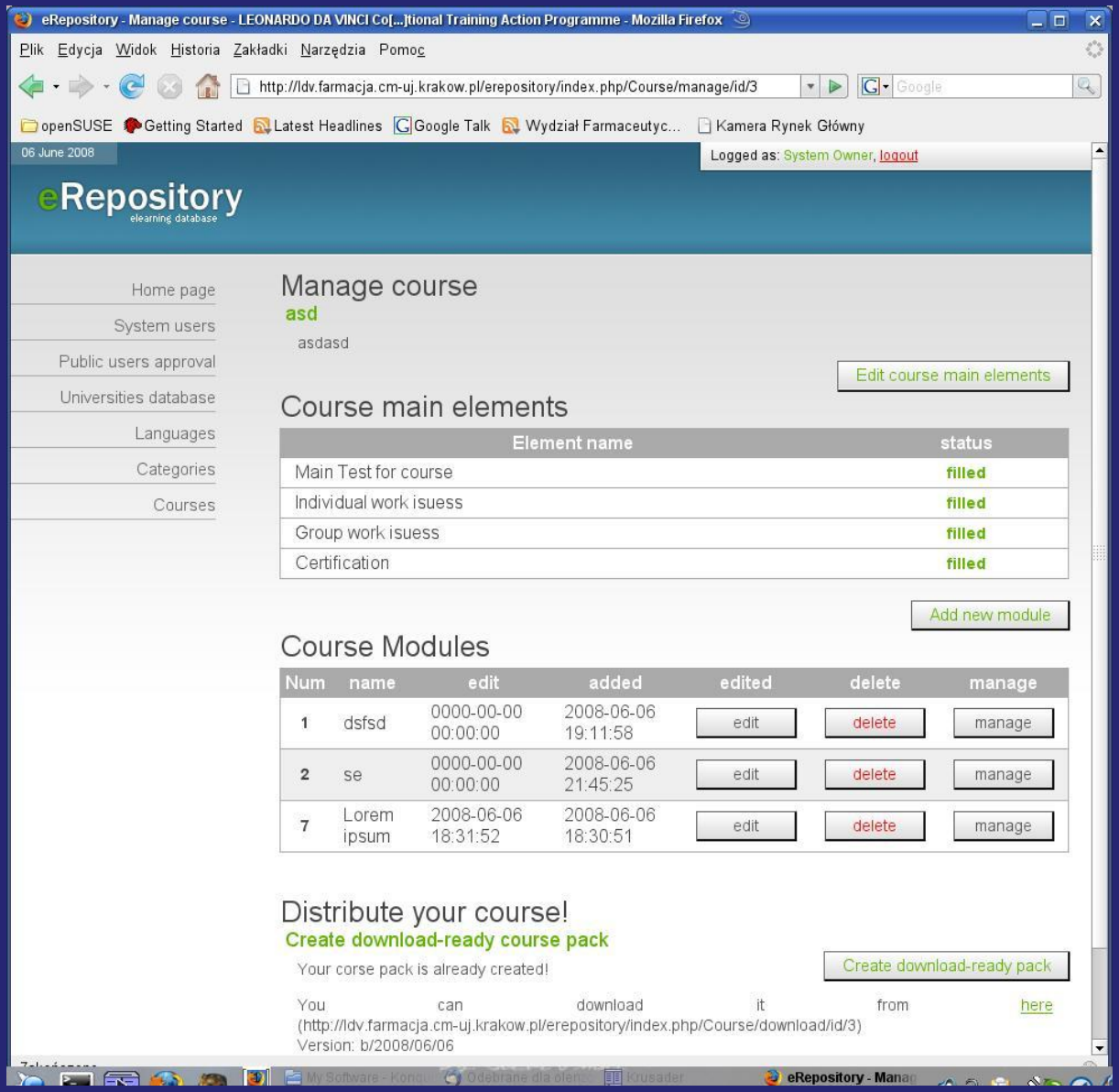

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THANK YOU

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