



Erasmus+

EKFI Project

Conceptual model of the proposed exchange system

December 2018, Amsterdam

Scope

- The platform is designed to exchange (learning) material between platform participants

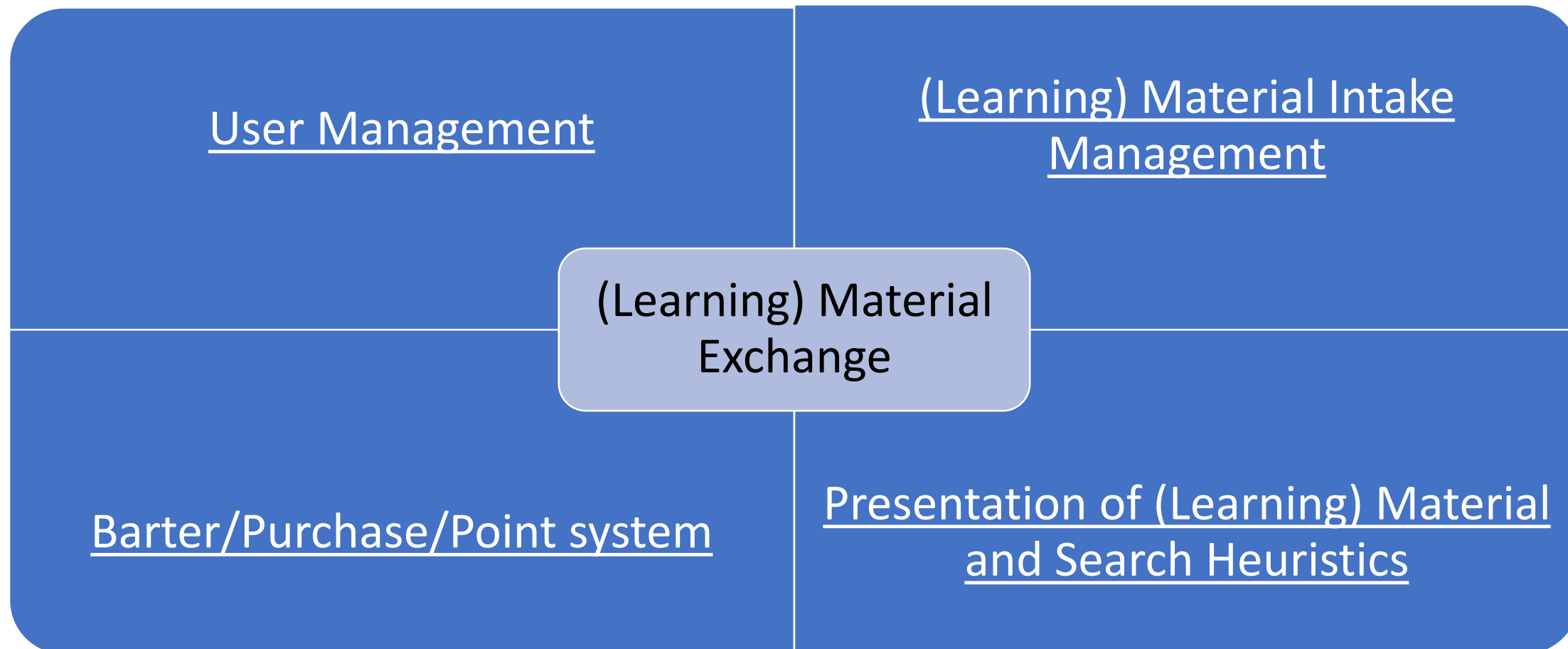
Goals

- Improve sharing of knowledge of erasmus projects
- Create an active sharing community

Constraints

- It is a limited access platform
- Risks of copyright infringement must be mitigated
- Content management effort by project members must be minimised
- Guaranteed technical lifetime at least 5 years after end of project

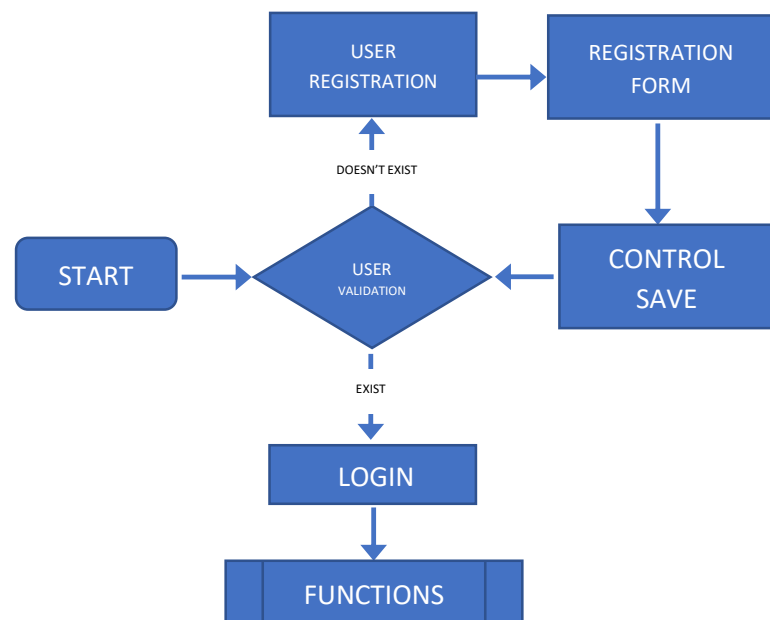
High level model description



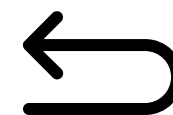
User Management – Who to manage

- Determining the different kind of users (to mitigate copyright infringement liability)
 - VET/HE
 - Consultancies
 - SMEs
 - Branche organisations
 - Network organisations (e.g. EGIN)
- but also*
 - Teachers
 - Students
 - Consultants
 - Employees of SMEs
 - Etc.

Intake Application – General



- Users need to be registered
- Cross platform design for user registration
- GDPR compliant
- Groups of users with different rights (users, admins, evaluators)
- Levels and reward badges



(Learning) Material Intake Management

- What do we define as (learning) material (collection of objects)
- How do we define (learning) material – meta information
 - EQF
 - Applicability
 - How many people
 - Language
 - Country specific
 - Learning outcomes
 - Etc.

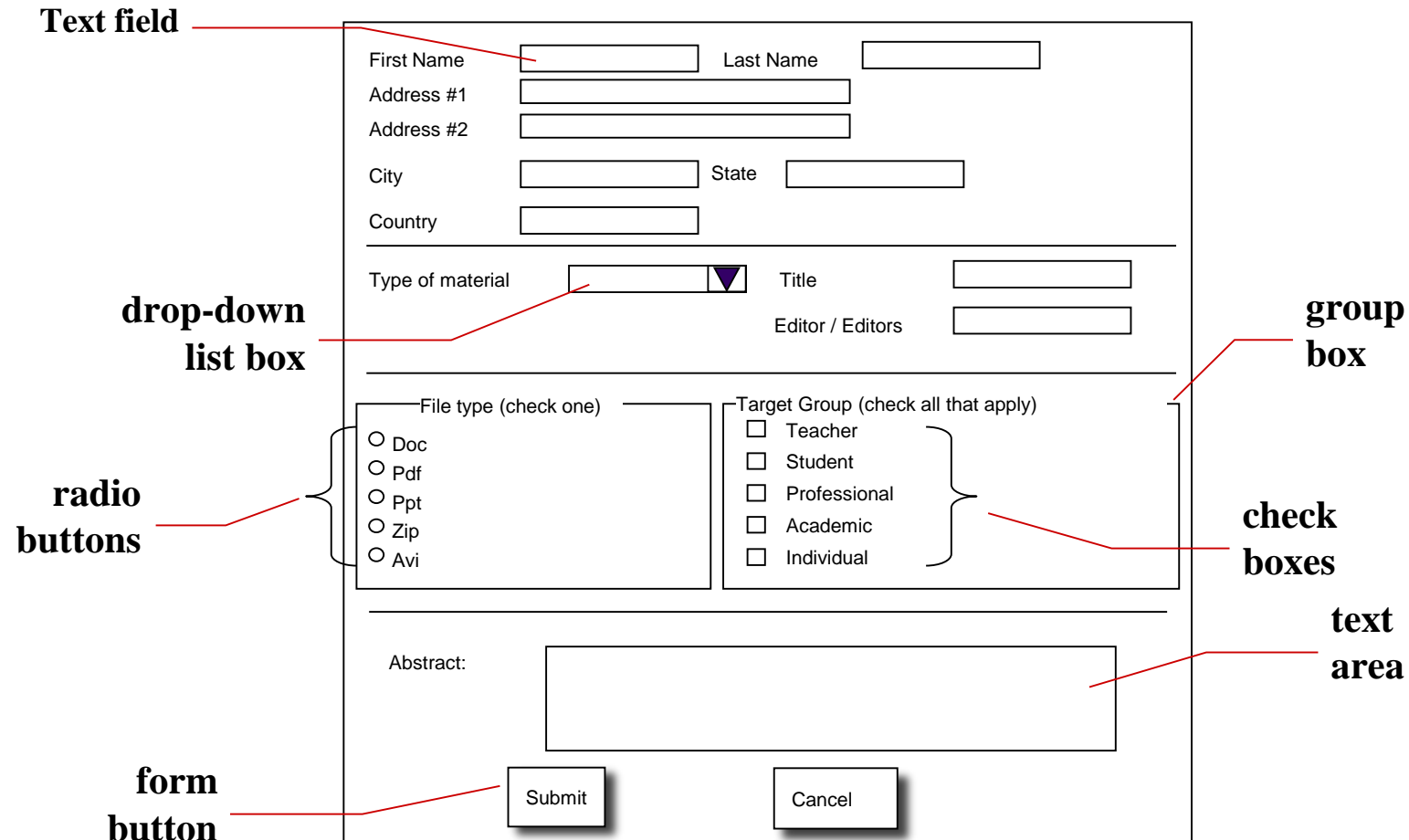
Material Upload Form Basic Fields 1/2

Metadata	Type	Required for Robot Search
Title	Text field	NO (keyword search)
Learning Outcomes	Text area	NO (keyword search)
Target group	Drop down list	YES
Type	Drop down list	YES
Level of learning	Drop down list	YES
Abstract	Text area	NO (keyword search)
Estimated study time	Text field	NO (keyword search)
Required Software	Yes/No	YES
Pedagogical objectives	Drop down list	YES
Distant Education	Yes/No	YES
Teacher Oriented	Yes/No	YES

Material Upload Form Basic Fields 2/2

Metadata	Type	Required for Robot Search
Origin	Drop down list	YES
Extended Description	Text area	NO (keyword search)
Included exercises	Yes/No	YES
Bibliography	Text area	NO (keyword search)
Editor / editors	Text field	NO (keyword search)
Required Competencies	Drop down list	YES
Copyright	Yes/No	YES
Type of file	Drop down list	YES
Size of file	Text field	NO (keyword search)
Includes subfiles (if zip)	Yes/No	NO

Learning Material Intake Management – Upload Form Mockup



The form is a vertical layout with several sections. At the top, there are text fields for 'First Name' and 'Last Name'. Below these are three text fields for 'Address #1', 'Address #2', and 'Country'. A horizontal line separates this from the next section, which includes a 'drop-down list box' for 'Type of material', a 'Title' text field, and an 'Editor / Editors' text field. Another horizontal line follows. The next section is a 'group box' containing two columns: 'File type (check one)' with radio buttons for 'Doc', 'Pdf', 'Ppt', 'Zip', and 'Avi'; and 'Target Group (check all that apply)' with checkboxes for 'Teacher', 'Student', 'Professional', 'Academic', and 'Individual'. Below this is a 'text area' for an 'Abstract:'. At the bottom, there are two 'form buttons' labeled 'Submit' and 'Cancel'. Red lines connect text labels to these specific form elements.

Text field

drop-down list box

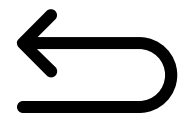
radio buttons

group box

check boxes

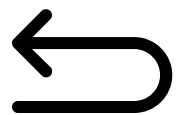
text area

form button



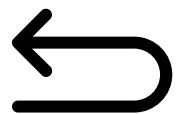
Barter/Purchase/Point system

- Barter system:
Own content/contribution is rated by peers and give access to content
- Purchase system:
Buying content using online payments providers
- Point system:
Activity on the system can credit predetermined points which you can use to purchase content



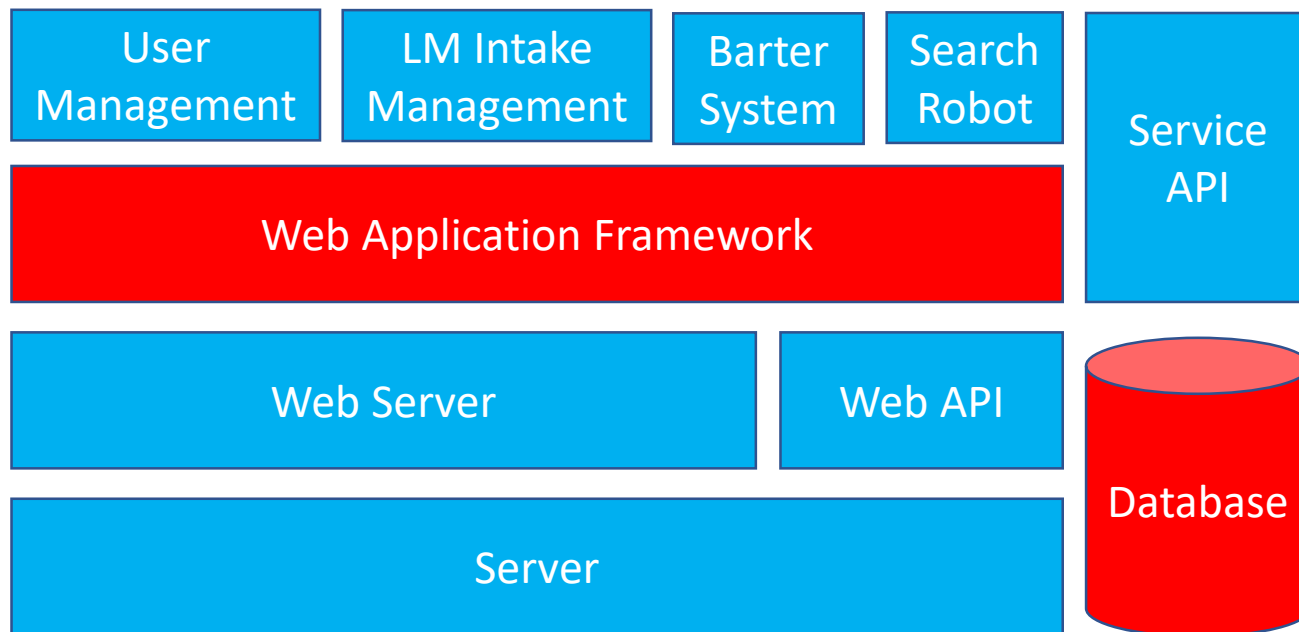
Presentation of (Learning) Material and Search Heuristics

- 3 types of search system: Simple search – advanced search – directories
- Search is done with keywords
- The search engine finds and sorts related entries
- The order in which the terms are typed affects the search results
- In advanced search we can use logical terms like and, or, not
- Searching for certain types of files will also be possible



Exchange Platform Overview

- Web based
- Modular, scalable



4 main modules

- User management
- (Learning) material Intake Management
- Barter System
- Search Robot