

Learning Management System System Requirements

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Group: E4

Year: 2

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1. Description

At the moment, for each activity related with the faculty a different tool/platform is used. With the turn towards complete-online-study one of the problems we face is the diversity of the apps/links/forms we use for changing information.

The Faculty of Computer Science wants to bring all the activities conducted together in one LMS system.

With a single account made on the application, the **students** can:

- * access the course/seminary materials available for each subject
- * access assignments for each subject
- * communicate with the other users
- * check their grades
- * communicate with the secretariat
- * see their schedule and other events planned in the faculty

The **teachers** will be able to:

- * publish weekly materials for their courses/seminaries

- * assign tasks for their students
- * evaluate their students and export those grades directly to the catalog

The **secretariat** can:

- * communicate easier with the students and teachers
- * keep track of requests made by the students and teachers

2. Actors:

Students: need to have easy access to the course/seminary materials, a stable platform for evaluation and a way of communicating with all the other users.

teachers: need to have a way of publishing the study materials, assign and evaluate tasks for their students and of communication with all the other users.

Secretary: need to have a way of communication with all the other users and create documents using the data available.

3. User stories

Account platform:

*As a secretary,

*I need to create separate sections for each year (1st, 2nd, 3rd year)

So that each year has an assigned zone

As a secretary,

I need to create separate sections for course in each year (examples: Math, OOP, Operating Systems)

So that each course has an assigned zone

As a secretary,

I need to create separate groups (year-seminar ex. B1, B2, E3, E4) for each course

So that each group has an assigned zone

As a secretary,

I need to be able to add students to a certain group (year/subject/group)

So that each student has access to the app components available for a group

As a secretary,

I need to be able to remove students from certain groups (year/subject/group)

So that the students removed can no longer access the sections related to the group.

As a secretary,

I need to be able to modify the groups of the students

So that the students can access the new sections available

As a user,

I need to be able to login into my account

So that I can access the rest of the application

Learning platform:

As a teacher

I need to add course/seminary materials (Slides/Text/Video/Images/Code)

So that the students can access them.

As a teacher

I need to create feedback-forms

So that the students can answer to them

As a teacher

I need to be able to respond to the questions asked by the students in private

So that only they can see the answer

As a teacher

I need to be able to make a question asked by a student and its answer public

So that the students can see them (Avoid multiple answering to the same question)

As a student

I need to access the feedback-forms created by the teacher

So that I can leave feedback related to the materials

As a student

I need to be able to ask the teacher private questions

So that only the teacher can see and respond to them

Evaluation platform - grade sheets

As a teacher

I need to to be able to create a virtual catalog for a subject

So that I can keep a record of all the grades for that subject

As a teacher

I need to add sheet pages in the catalog for each of my groups

So that so that I can keep a record of all the grades scored by each of my groups

As a teacher

I need to be able to add or remove students from a sheet page of the catalog

So that so that I can have a clear list of the students that are in my groups

As a teacher

I need to be able create and remove columns in my sheets

So that I can insert grades for each student in each cell

As a teacher

I need to be able to edit each cell from the sheet

So that I can edit a grade

As a teacher

I need to be able to have statistics for any line or column of a sheet (ex: average, min, max)

So that I can obtain a value based on all the values from that line/column

As a student

I need to be able to access ALL the sheets corresponding to ANY group

So that I can see my grades and compare them to others (all the other grades will still appear, but without the name of the student)

Evaluation platform - assignment system

As a teacher

I need to create assignments (exam/test/oral evaluation/homework/exercise sheet) for a certain subject and group

So that any student from that group can access and solve it

As a teacher

I need to setup a certain type for an assignment (exam/test/homework/exercise sheet)

So that each student knows what he has to do

As a teacher

I need to be able to set a time interval for an assignment, composed of starting date and time and ending date of time

So that students can see, access and solve that assignment only during that time interval

As a student

I need to be able to upload a solution for an assignment

So that the teacher can grade it

As a student

I need to be able to access any solution sent by a student

So that I can grade it

As a student

I need to be able to export the score of any assignment

So that it will be saved in my grade sheets

Communication platform

a) webmail

As a User

I need to create and send email messages to a single user

So that they can access and reply to them.

As a User

I need to attach files to my email

So that I can send them.

As a User

I need to filter my emails based on different criteria (unread/sort by date/sort by group)

So that only the emails that pass the criteria are shown

As a Secretary

I need to create mailing lists

So that secretary/teachers can send emails to these lists

As a teacher/Secretary

I need to create and send text messages to a group of users

So that they can access and reply to them.

b) teams

*As a*user

*I need to*create a video meeting

So that I can communicate with others

*As a*user

*I need to*be able communicate via text during a meeting

*So that*I can communicate without interrupting the current speaker

*As a*user

*I need to*be able to create an invite link for my meeting

*So that other users can join my meeting

*As a*user

*I need to*be able to restrict the access to my meeting

*So that*only the intended users can join

*As a*user

*I need to*be able to create recurrent meetings

*So that*it can automatically begin at the same time every week/day

*As a*user

I need to be able to set alerts for meetings

So that I get a reminder before the meeting starts

Catalog platform

As a student

I need to see my academic performance

So that I can see my FINAL grades for all courses, points and credits in all semesters

As a student

I need to see the ranking of my year / group

So that I can compare my performance with others

As a student

I need to see all the points in my year in descending order (anonymously)

So that I can rank myself in the year.

As a secretary

I need to generate statistics about the students' grades

So that I can use them to fill in the necessary documents (ex: Retake class, Budget repartition, Statistics, Expulsion)

Secretariat platform

As a student/teacher

I need to create tickets in the secretariat platform

So that I can communicate with the administration office

As a student/teacher

I need to assign a priority/severity (Low/Medium/High) to my tickets

So that the tickets can be sorted accordingly

As a student/teacher

I need to check the ticket status I've made

So that I can keep track of the request status

As a secretary

I need to see all the tickets made

So that I can solve them

As a secretary

I need to edit the ticket status (New/In progress/Solved)

So that I can track its progress

As a student/teacher/secretary

I need to reply to a ticket

So that I can update its progress

As a secretary

I need to create templates for the tickets

So that students/teachers can submit tickets in a specific format(adeverinta student, cerere cfr, vizare carnet, vizita facultate,fisa semestrială)

As a secretary

I need to sort the tickets

So that I can prioritize the tickets based on:
time-since-request/priority/severity etc...

Administrative platform

As a secretary

I need to create the timetable of the faculty

So that no group/teacher has two activities at the same time (ex.
Course/seminary)

As a secretary/teacher

I need to distribute the activities conducted in the faculty

So that no room has two activities at the same time (ex.
Course/seminary/event)

As a secretary/teacher

I need to be able to add events in the timetable

So that a room can be reserved for the event

As a secretary/teacher

I need to set detailed information for an event (ex.
duration/date/place/description/nr. of participants/guests etc)

So that they can be seen by all the people in the faculty

As a student

I need to be able to see the timetable of the group where I am assigned

So that I can keep track of my schedule

As a student/teacher/secretary

I need to see the entire timetable

So that I can see all the activities conducted in the university

As a student/teacher/secretary

I need to be able to filter the timetable based on multiple filters

(Year/Semi-Year/Group/room/Day/Time/teacher)

So that I can only see the events that meet the filters

As a secretary

I need to distribute the exams of the faculty

So that no student has two exams in the same day