ISPW - SyncroNotes Project

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1 Introduction

1.1 Aim Of the document

The purpose of the document is to provide the general specifications and the idea behind the start of the **Syncronotes** project. It won't simply describe how it works, but will also prove why a system like this can be useful in a University or a School too.

1.2 Overview of the defined system

The Syncronotes application goal is to interconnect students and professors to simplify communication among them and share notes, offering all the features in order to do so. Students and professors can publish notes, students on their page, and professors on a course of theirs.

Notes can be published as private or public so that users can differentiate the ones that everyone can see and those they want to keep for themselves. Notes and courses are characterized by a category: this option has been taken to simplify the research of a note and help in its revision.

Indeed one of the most impactful operations that this system allows is the process of revision: students and professors can interact to revise a student's note, and this is a very important operation because it gives an idea about the quality aside the quantity of the notes that can be found inside the application, which are a lot since lots of students can take part at a University course and if the course uses this application, every student can share their notes, and have high quality because they can be corrected by professors.

Furthermore, the usage of application can be applied also at school, where a class can use the application to manage homework, and eventually can be adapted in a working context too to share documentation and make it revisable by other colleagues.

1.3 HW e SW requirements

Syncronotes can run on Windows, MacOS and Unix-like operating systems, and in order to do so the relative database must be installed. Hardware requirements are (from intellij minimum requirements):

- 2 GB RAM minimum, 4 GB RAM recommended.
- 1.5 GB hard disk space
- at least 1 GB for caches.

1.4 Related systems, pros and cons

There already exist systems that can be related to the usage of Syncronotes:

• Microsoft teams

Common features: both systems allow to take part in a course/team where people can share files.

Advantages of Syncronotes: it's simpler to take part in a course for students and there is a system of note revisioning.

Disadvantages of Syncronotes: students cannot be an active part in a professor's course unlike in teams, the system is more straightforward to the note sharing and management while teams comprehends a lot of different features.

• www.skuola.net

Common features: both systems have got the goal of sharing notes.

Advantages of Syncronotes: the revision system assures the quality of the shared material.

Disadvantages of Syncronotes: skuola.net allows the management of private lessons that Syncronotes doesn't permit.

2 User Stories

• US1 :

As a student user,

I want to publish my notes as private or public, So that other students can see only my public notes.

• US2 :

As a student user,

I want to start a revision of a note of mine with a professor, So that any errors can be corrected.

• US3 :

As a professor user,

I want to permit students to subscribe to my courses, So that they can receive email notifications when I publicize notes.

3 Functional Requirements

• FR1 :

The system shall allow students to start a revision process of a note of theirs with a professor.

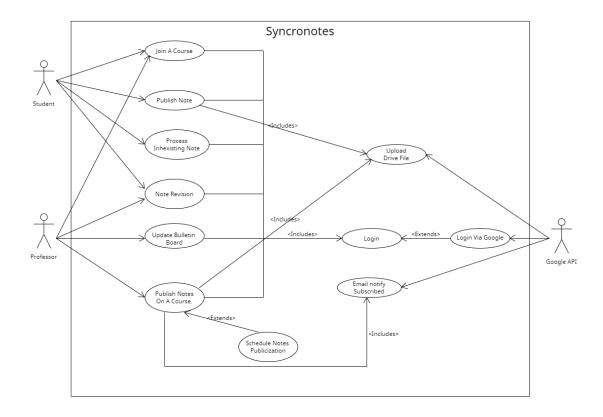
• FR2 :

The system shall allow professors to publish notes on their course's page.

• FR3 :

The system shall send an email notification to every student subscribed to a course when a new note is published in it.

4 Use Cases: Overview Diagram



5 Use Case: internal steps

Use case: Revise Note

- 1. The student requests to revise a note.
- 2. The system provides a list of every professor with a course of the same category as the note.
- 3. The student selects one of the professors and specifies a question for them.
- 4. The system adds the note of the student to the list of notes to revise.
- 5. The professor request to see the notes to revise.
- 6. The system provides the requested note.
- 7. The professor applies the revision.
- 8. The system updates the revision status.
- 9. The student requests to see the revision status of the note.

Extensions:

2a. There exists no professor:

The system alerts the student that there aren't professors for the revision.

9a. Revision not passed:

The student applies changes to their note.

Continue to 4.

9b. Revision passed:

The system set the revision status as terminated.