

## Thesis Registration Form

**Student's Data:**

**Student's Name:** Akimzhanov Zheenbek

**Student's Neptun code:** YFAGE6

**Course Data:**

**Student's Major:** Computer Science BSc

I have an internal supervisor

**Internal Supervisor's Name:** Dr Harrison-Juhász Zsófia

Supervisor's Home Institution:

**Department of Computer Algebra**

Address of Supervisor's Home Institution:

**1117, Budapest, Pázmány Péter sétány 1/C.**

Supervisor's Position and Degree:

adjunct, Phd

**Thesis Title:** Web application for learning/teaching musical instruments

**Topic of the Thesis:**

*(Upon consulting with your supervisor, give a 150-300-word-long synopsis of your planned thesis. )*

The recent pandemic resulted in education/work transitioning into online format through special web pages or applications which brought a realisation to many people that knowledge and experience can be gained not only by actually attending in person. All the online platforms and services finally got acknowledged by a bigger number of people.

Personally, I started learning guitar by watching YouTube tutorials and by doing some readings in different pages. I noticed that most of the musical instrument tutors offer their online courses through their own external web pages. So the problem is when it comes to learning musical instruments remotely, there are not great varieties of courses bundled together in one place. And I thought: "Why is there not any platform specifically dedicated for different music tutors to upload courses for people to buy if interested?". So I decided just to do that.

The main goal of the project is to provide a public music learning/teaching platform with its own facilities and features which make it easier for the learners to find the needed course and learn conveniently, and for the music tutors to be able to publish their own courses and manage their accounts. The platform should provide a way to maintain a communication between tutors and learners and be able to provide ways of interactive teaching/learning.

The basic features of the web application are going to be:

- Being able to register the user
- Being able to both publish and view others' content
- The format of the lessons may include video, text, note, sheets/tabs, etc.
- The musical instruments are categorised into different sections and can be easily navigated through
- Tutors and learners can communicate
- The progress is saved throughout the course

The application can be extended way further with the features uniquely related to instruments

For the implementation ReactJS, JavaScript and Java will be used

Budapest, 2023. 02. 15.