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# Private Teacher



Gábor Horváth

# Overview

The **PrivateTeacher** web application is a platform designed for private teachers to connect with parents seeking suitable courses for their children. It facilitates seamless interaction between teachers and parents, enabling efficient course management, student enrollment, course termination and message sending.

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## User Roles

### Parent

Parents can register and manage their children's profiles. Multiple parents can manage a single child using the shared username and password credentials.

- **Key Features for Parents:**
  - **Child Registration:** Register children and manage their profiles.
  - **Course Search:** Search for courses based on various parameters.
  - **Apply to Courses:** Submit enrollment requests to tutors.
  - **Termination of course:** Request an active student course of termination.

### Teacher

Teachers can manage their courses and respond to enrollment.

#### Key Features for Teachers:

- **Location Management:** Create and manage teaching locations.
- **Course Management:** Define course properties, such as name, language, pricing, and capacity.
- **Request Handling:** Review and respond to enrollment requests.

### Admin

Admins are responsible for managing user accounts and assigning roles.

- **Key Features for Admins:**
  - Create and edit user accounts.
  - Assign roles (Parent, Teacher).
  - Manage user statuses (Active, Suspended, Banned).

# Features

## Registration and Child Management

1. **Child Registration:** Parents must first register their child.
2. **Multi-Parent Access:** Multiple parents can manage the same child using shared credentials.

## Course Search

Parents can search for courses using the following criteria:

- **Teacher's Email:** Directly search for courses offered by a specific tutor.
- **Location:** Filter courses by geographical location.
- **Course Properties:** Filter by tags, session length, and other attributes.

## Course Enrollment

- **Application Submission:** Parent must choose a child, after than fill the application form.
- **Course occupancy control:**
  - The system is able to monitor the number of students in each course, depending on the number of students previously set by the teacher. Applying the course is only possible if there is space available at the selected time, and the system will offer a new time separately.
- **Teacher Review:** Teachers can view:
  - Parent(s) details.
  - Child's details.
  - Parent's introduction.
- **Response Requirement:** Teachers must respond with a reasoned acceptance or rejection. If the tacher accept the application, must be select the teaching days and times.

## Messaging System

Teachers and parents can communicate via the integrated messaging system.

- **Conditions for Messaging:**
    - Parents must have a child registered and an application submitted.
    - Teachers must have an active student course.
  - **Messaging Interface:**
    - View and respond to messages in the chat interface.
    - Send new messages by selecting relevant parameters (Child/Student, student course).
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## Security and Monitoring

### User Status Management

- **Manual Control:** Admins can suspend or ban users.
- **Automated Suspensions:**
  - Suspicious activity results in account suspension and IP blocking.
  - Protection against DoS attacks with automated response mechanisms.

### Course Completion Date Monitoring

- **Forecast**
  - The system sends a notification to the teacher 5 days before the course ends.
- **Automatic Status Delivery**
  - The system automatically sets the status to completed the day after the course ends.

### Activity Logging

- Logs all user activities in the database.
- Maintains detailed records of failed or unauthorized access attempts.

### Localization

The application is fully localized, currently supporting **English** and **Hungarian**.

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# Workflow

## For Parents

1. Register and log in.
2. Add a child profile.
3. Search for suitable courses using filters.
4. Apply to courses by submitting a request.
5. Communicate with teachers through the messaging system after submitting a student course.

## For Teachers

1. Request authorization from the admin.
2. Define teaching locations.
3. Create and manage courses with detailed parameters.
4. Review enrollment requests and respond accordingly.
5. Communicate with parents via the messaging system.

## For Admins

1. Create and manage user accounts.
2. Assign roles and manage user statuses.
3. Monitor system logs to detect and address unauthorized activities.

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## System install in Docker

- docker run
  - PrivateTeacher\_test directory creatin
  - git clone <https://github.com/horvathg13/PrivateTeacher-Docker.git>
  - docker-compose build && docker-compose up
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# First usage

After the installation automatically created three users:

- **Admin**
  - e-mail: [admin@privateteacher.com](mailto:admin@privateteacher.com)
  - password: admin
- **Teacher**
  - e-mail: [teacher@privateteacher.com](mailto:teacher@privateteacher.com)
  - password: teacher
- **Parent**
  - e-mail: [parent@privateteacher.com](mailto:parent@privateteacher.com)
  - password: parent