Documentation of the program code

[Course Management System]

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# History of technical documentation

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**Version history**

| Version | Data | Author | Description |
| --- | --- | --- | --- |
| 1.0 | 10/11/2024 | Mustafa Mestanoglu | My role in the project was determined as a backend developer and I created a database to get started. |
| 1.1 | 15/11/2024 | Mustafa Mestanoglu | Work with the project manager to create the main database structure and relationships. |
| 1.2 | 25/11/2024 | Mustafa Mestanoglu | The performance and stability of the database were examined. |
| 1.3 | 29/11/2024 | Mustafa Mestanoglu | The database was tested with tester and project manager. |
| 1.4 | 02/12/2024 | Mustafa Mestanoglu | The program was further developed in order to record data about teachers and students in the database. |
| 1.5 | 10/12/2024 | Mustafa Mestanoglu | The final version of the database was examined with tester and the program was tested together. |

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# Content

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# Introduction

My role in this project is backend developer.Together with my project manager (other backend) ,we worked on the database of this system and the stability of the database.

# Detailed design

## Class diagram

metin, ekran görüntüsü, diyagram, paralel içeren bir resim

Açıklama otomatik olarak oluşturuldu

## Sequence diagram

metin, ekran görüntüsü, paralel, sayı, numara içeren bir resim

Açıklama otomatik olarak oluşturuldu

# Testing

**3.1**



**Error Message:**

"Table 'UniversityManagment.NonExistentTable' doesn't exist."

**Cause:**

The specified table does not exist in the UniversityManagment database.

**Solution:**

Create the table or use the correct table name:



**3.2**

metin, yazı tipi, ekran görüntüsü, çizgi içeren bir resim

Açıklama otomatik olarak oluşturuldu

**Error Message:**

"Incorrect ENUM value: 'superuser'."

**Cause:**

The role column is restricted to ENUM('admin', 'teacher', 'student'), and 'superuser' is not a valid value.

**Solution:**

Use a valid ENUM value:

metin, yazı tipi, ekran görüntüsü, beyaz içeren bir resim

Açıklama otomatik olarak oluşturuldu

**3.3**



**Error Message:**

"Cannot delete or update a parent row: a foreign key constraint fails."

**Cause**:

The Teachers table references user\_id = 2 in the Users table. Deleting this row would orphan the associated Teachers record.

**Solution:**

Use ON DELETE CASCADE to automatically delete related rows, or delete dependent rows manually:

metin, yazı tipi, ekran görüntüsü, beyaz içeren bir resim

Açıklama otomatik olarak oluşturuldu