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 | Mehmet Berke Secme | The basic structure of the project was created.  User stories were defined.  Main functionalities (e.g., course creation and user registration) were designed. |
| 1.1 | 15/11/2024 | Mehmet Berke Secme | Completed missing elements in the database and ensured all tables and relationships were in place.  Agreed on html with the front developer  Details about the application were arranged with the application developer |
| 1.2 | 25/11/2024 | Mehmet Berke Secme | Conducted project-wide testing and reviewed database performance and functionality. |
| 1.3 | 29/11/2024 | Mehmet Berke Secme | Database tests were reviewed with tester |
| 1.4 | 02/12/2024 | Mehmet Berke Secme | The final version of the application was discussed with the application developer |
| 1.5 | 10/12/2024 | Mehmet Berke Secme | Finalized test done for the all database with tester  Finalized database structure and ensured all project requirements were met. |

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# Introduction

My role as the **Project Manager** involved overseeing the overall progress, ensuring that tasks were completed on time, and facilitating communication between team members. As the **Database Specialist**, we designed and implemented the database structure, ensuring all data was stored efficiently and met the project’s functional requirements.

# 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**

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

Açıklama otomatik olarak oluşturuldu

**Error Message:**

"Duplicate entry 'team7@tus.com' for key 'email'".

**Cause:**

The Admins table requires the email field to be unique, but the same email address already exists.

**Solution:**  
Use a different email address for the new record:

**Solution:**



3.2



**Error Message:**

"Cannot add or update a child row: a foreign key constraint fails."

**Cause:**

user\_id = 15 does not exist in the Users table, violating the foreign key constraint.

**Solution:**



3.3

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

Açıklama otomatik olarak oluşturuldu

**Error Message:**  
"Column 'enrollment\_year' cannot be null."

**Cause:**  
The enrollment\_year column is defined as NOT NULL and cannot be left empty.

**Solution:**  
Provide a valid year value:

