

My Contribution

Başar Temiz
Student ID: 2022400132

March 11, 2025

1 ER Diagram Design

The first major task I undertook was designing the **Entity-Relationship (ER) Diagram** for the project. This involved identifying the key entities, defining their attributes, and establishing the relationships between them. The goal was to create a well-structured model that accurately represents the data and ensures efficiency in database operations.

2 Database Review and Improvements

Once Ahmet Çağdaş, my project partner, implemented the database based on the ER diagram, I carefully reviewed his work. During this review process, I checked for inconsistencies, normalization issues, and potential optimizations. I suggested and applied necessary corrections to enhance the database structure, ensuring that it followed best practices for relational database design.

3 Documentation Preparation

Another crucial contribution I made was preparing the **Documentation** for the project. I was responsible for documenting both the ER diagram and the database implementation. This involved detailing the database schema, explaining relationships, and providing justifications for design decisions.

4 Collaboration and Challenges

Throughout the project, my partner and I worked closely together, continuously exchanging ideas and providing feedback on each other's work. While I primarily focused on designing the ER diagram, my partner reviewed it and provided valuable insights. Similarly, I reviewed his database implementation, ensuring its accuracy and efficiency. This collaborative approach allowed us both to gain a deeper understanding of the project as a whole.

We faced several challenges, particularly during the ER diagram design phase. Some aspects of the model were complex and required multiple iterations to refine. However, by discussing different perspectives and considering alternative approaches, we successfully resolved these difficulties.

5 Self-Assessment and Learning Outcomes

This project was a valuable learning experience for me in several ways. First, through designing and refining the ER diagram, I significantly improved my ability to model database structures effectively.

Additionally, reviewing my partner's MySQL implementation exposed me to practical SQL coding. I learned how to write and optimize queries more efficiently.

Overall, this project strengthened my technical skills in database design and SQL, as well as my ability to collaborate effectively with a team member. The process of reviewing, refining, and documenting our work reinforced the importance of clear communication and structured thinking in software development.

6 Conclusion

In summary, my contributions to this project included designing the ER diagram, reviewing and refining the database implementation, and preparing thorough documentation. Additionally, our collaborative approach helped us overcome various challenges, particularly in the ER diagram phase. This experience not only enhanced my technical skills in ER modeling and SQL but also improved my problem-solving and teamwork abilities.