G10: Mini Yu-Gi-Oh! Game

Class Design

Emre Demirbaş, 21050111069 Mehmet Ali Yılmaz, 21050111057 Ömer Faruk Özüyağlı, 21050111047 Muhammed Esat Çelebi, 21050111034

Instructor: Muhammed Abdullah Bülbül

Teaching Assistant: Elif Şanlıalp

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1. Introduction

This report summarizes the design and implementation of the Mini Yu-Gi-Oh! Game. This project involves creating various C++ classes that model important components of the game such as cards, players, decks, and playing fields. The goal is express the game's structure and functionality clearly and concisely through object-oriented design principles. This report begins by presenting Class Responsibility Collaboration (CRC) cards for each class, outlining their roles, responsibilities, and collaboration. Next, you will see a class diagram that shows the relationships and interactions between classes.

2. Class-Responsibility-Collaboration (CRC) Cards

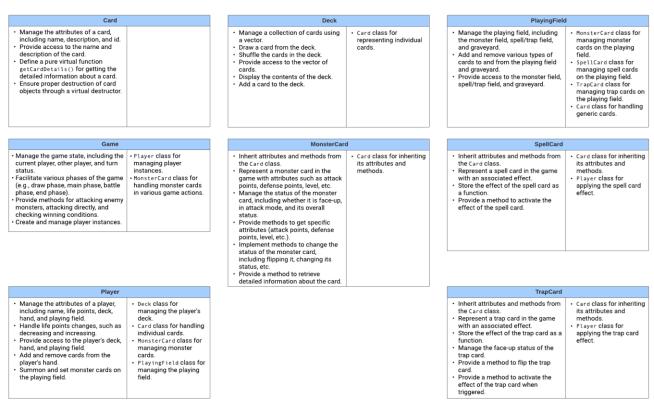


Figure 1. CRC Cards

3. Class Diagram

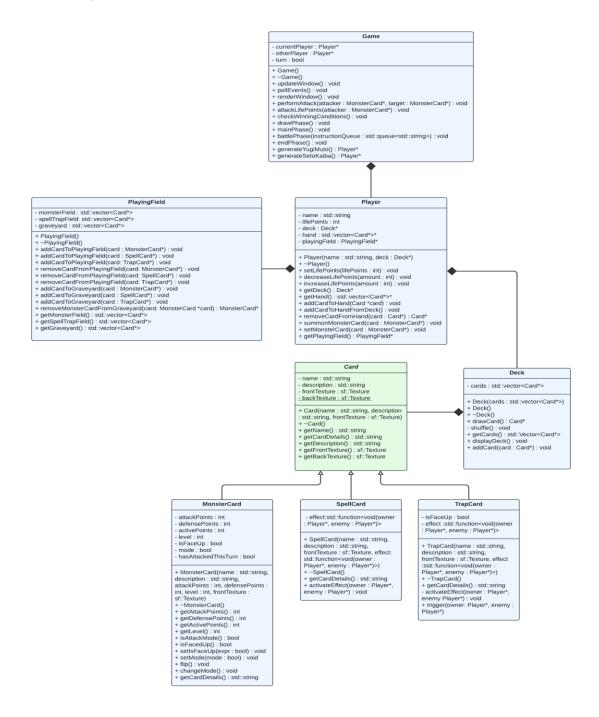


Figure 2. Class Diagram

4. Conclusion

In summary, the class design for the Mini Yu-Gi-Oh! game project follows a systematic and thoughtful approach. CRC cards effectively capture each class's responsibilities and collaboration, providing a detailed understanding of the classes' intended role in the game. Class diagrams visually represent the relationships between these classes and ensure a comprehensive overview of the system. The class diagram illustrates the relationships and interactions between classes, offering a visual representation of the game's architecture. All team members collaborated as partners while working on the report.