PROG2370

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Final Project

Ghostbuster Game

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# Description and Features

This is a fun 2D action-based game developed using Monogame in Visual Studio 2022, featuring ghost-hunting gameplay where players must click on ghosts appearing in random places on the screen while trying not to miss any. The game consists of multiple scenes, including a Start Scene, Help Scene, Action Scene, High Score Scene, and Credits Scene. The primary objective in the Action Scene is to click on the ghosts before they disappear, and if miss-clicked outside the ghost, the score is decremented by 1. The Action Scene also features a game-over mechanic when the player misses three ghosts. Players can see their score and misses on the top left, and after the game ends, their score is added to the high score list if it qualifies.

The game has a simple menu system powered by the MenuComponent class, where players can choose between starting the game, viewing high scores, or accessing the help or credits. The game includes sound effects for clicks, misses, and background music that create an immersive experience. To further better this experience, animations are also implemented when a ghost is clicked on and when missed. The player progresses through various scenes with the use of keyboard inputs (Enter, Escape, etc.) to navigate through different menus and gameplay states.

# Class Diagram

A diagram of a software company

Description automatically generated

# References

**SOUNDS**

Menu Navigation Sound  
[https://www.youtube.com/watch?v=T\_Q3M6vpCAQ](https://www.youtube.com/watch?v=T_Q3M6vpCAQ%20)

Action Scene Music  
<https://www.youtube.com/watch?v=JYFU_RiefKk&list=PLwYuPyjTvan4bknFjscAz9duf2ZUAWkCb&index=2>

Ghost Click Sound  
<https://www.youtube.com/watch?v=ozTSMvKZfJc>

Menu Music  
<https://www.youtube.com/watch?v=PtOblpbdddA&list=WL&index=2>

Ghost Miss Sound  
<https://www.youtube.com/watch?v=k2xtJp_vu5o&list=WL&index=1>

**IMAGES**

Menu and Action Background  
<https://www.istockphoto.com/vector/trees-in-the-dark-scary-woods-gm1303416924-394874164>

Ghost Image  
<https://www.istockphoto.com/vector/evil-8-bit-cartoon-ghost-gm508005738-85000951>