

SIMON GAME

TEAM MEMBERS:

VIGNAN SMITH 21911A12G1 SRINIKETH GUPTA 21911A12E4 NATHAN BABU 21911A12E9

GUIDE NAME:

B. ESHWAR BABU

ABSTRACT

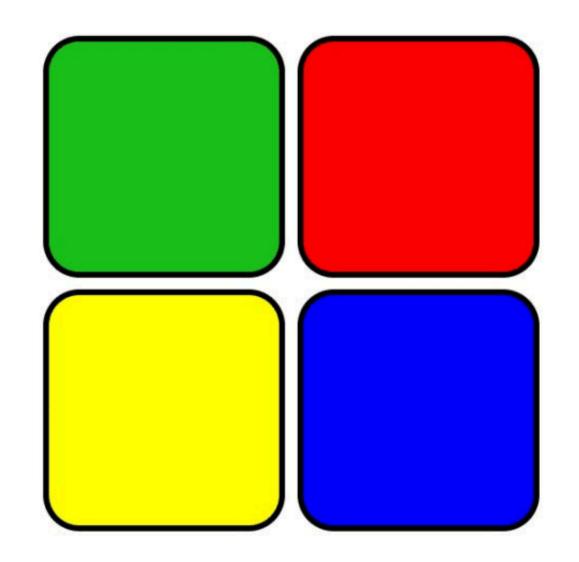
Simon is a classic electronic memory game that challenges players to remember and repeat increasingly complex sequences of colored lights and sounds. Players must replicate the sequence in the same order, with each successful repetition adding a new step. The game tests attention, memory, and reflexes, providing a fun and engaging way to exercise cognitive skills. Its simple yet addictive gameplay makes it a timeless favorite for players of all ages.

INTRODUCTION TO SIMON GAME

The **Simon Game** is a classic memory challenge that enhances **cognitive skills**. By requiring players to remember and replicate sequences, it promotes **attention**, **memory**, and **problemsolving** abilities. This presentation will explore how engaging with this game can lead to significant cognitive development.

Simon Says Game

Press any key to start the game





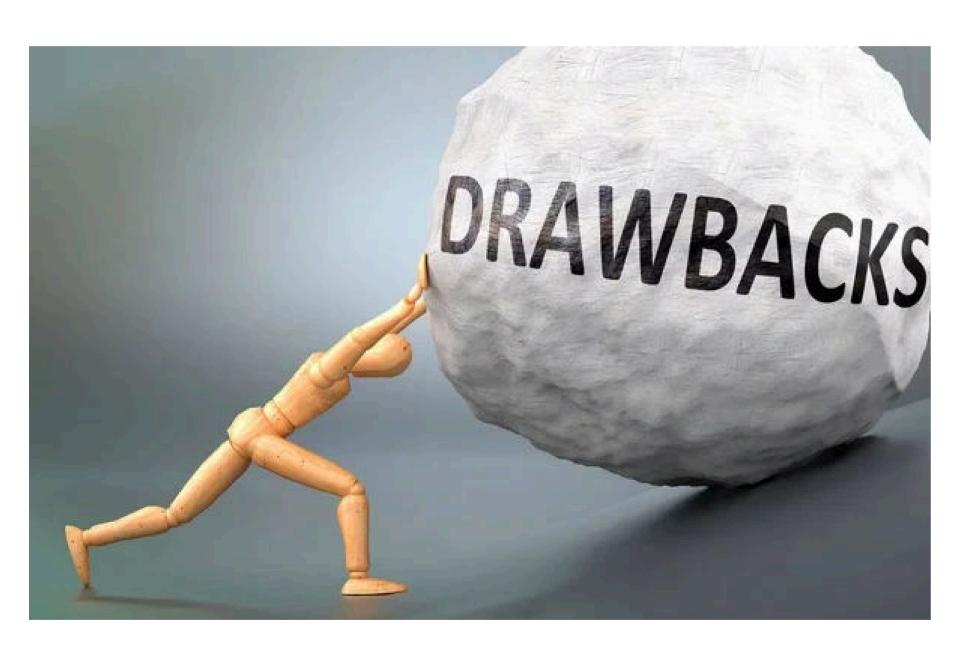
EXISTING SYSTEM

The Simon game is an electronic memory game first launched in the late 2000s. It consists of a circular device with four large, colored buttons red, green, blue, and yellow. The game begins with the device lighting up one of these buttons randomly, and the player is required to press the button in response. As the game progresses, it generates longer and more complex sequences of lights and sounds, which the player must remember and replicate in the correct order. The game's primary objective is to challenge and improve memory and concentration skills, offering different levels of difficulty as the sequences get longer.

PROPOSED METHOD

Playing the Simon game online offers several benefits that enhance both convenience and cognitive skills. It provides easy accessibility, allowing players to enjoy the game from anywhere, whether on a computer or a mobile device, without the need for a physical game unit. The online version often includes different difficulty levels and modes, which can further challenge and engage the brain, enhancing memory, concentration, and pattern recognition skills. Additionally, online platforms may feature multiplayer options or leaderboards, encouraging social interaction and healthy competition, which can help improve motivation and engagement. Overall, the digital format of the Simon game makes it an excellent tool for mental stimulation and entertainment.

DRAWBACKS



- The game doesnot have sound
- The game is not friendly for childrens
- Simon game has speed or difficuly levels, the fundamental gameplay structure remains largely unchanged.
- The button layout may not be optimal for all players, especially those with certain physical limitations or preferences

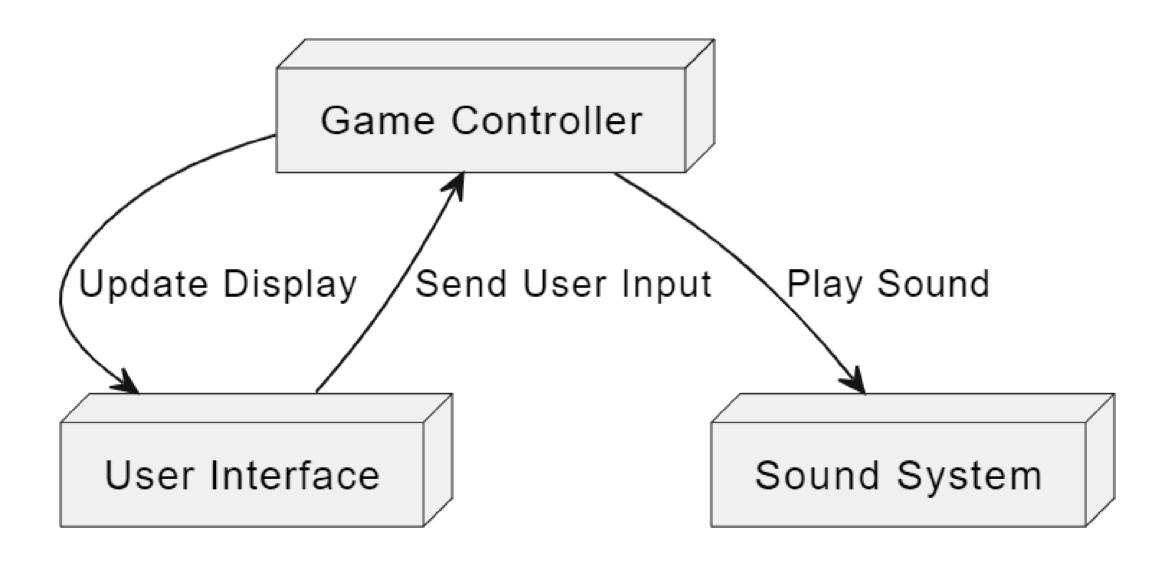
MODULES



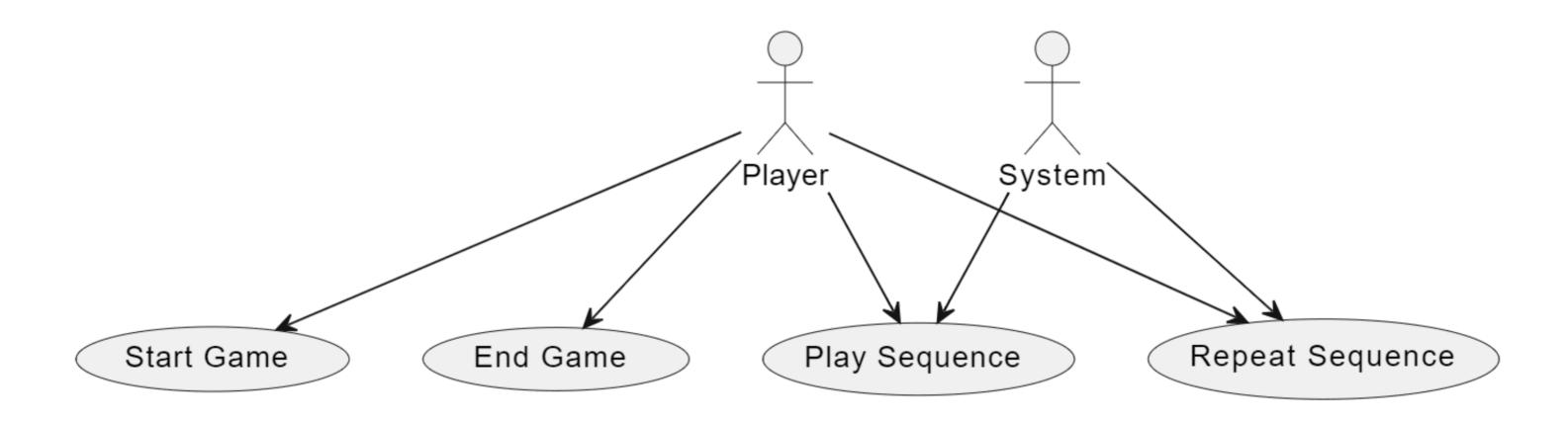
• User Interface (UI) ModuleDescription:

Manages the visual and interactive elements of the game. Components: Colored buttons (Red, Green, Blue, Yellow) that light up. Start, reset, and power buttons. Display screen (if available) showing the current score or game status. Function: Provides feedback to the player (lights, sounds) and accepts user inputs.

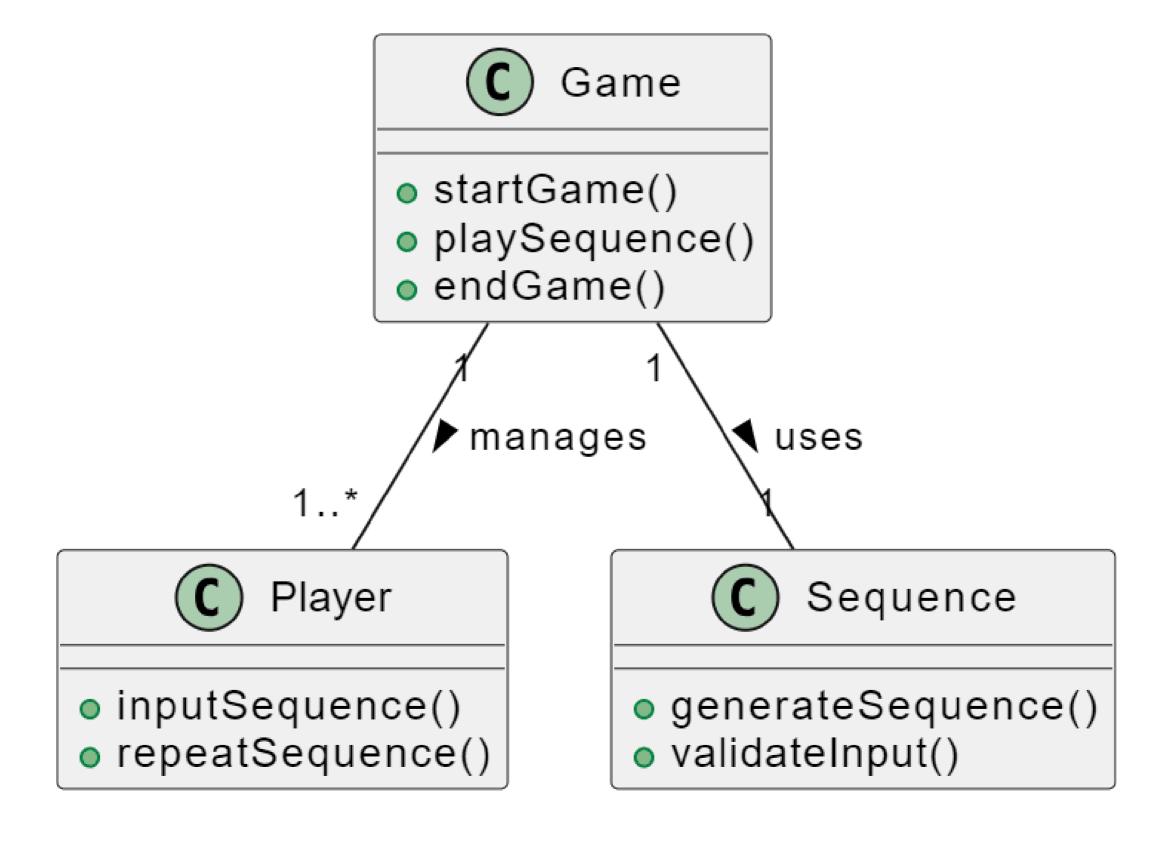
ARCHITECTURE



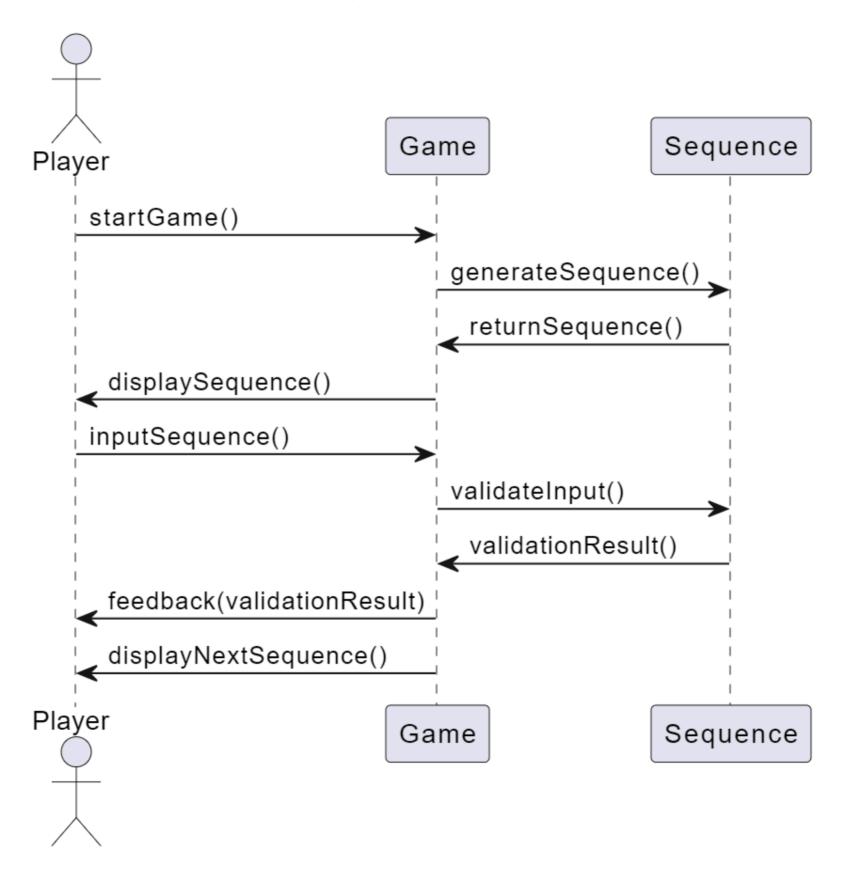
USE CASE DIAGRAM



CLASS DIAGRAM



SEQUENCE DIAGRAM





CONCLUSION AND FUTURE DIRECTIONS

In conclusion, the Simon Game is more than just a fun activity; it is a powerful tool for enhancing **cognitive skills**. Future research should explore its applications in educational settings and its potential for broader cognitive development across various age groups.



THANK YOU