

CardMemoryGame App

Launch Instructions on playing the game:

When the app is launched you will be introduced into the main menu of the game.

You can choose three options on where to travel to

Single Player button: play a game of single player to try and beat your past high scores

Multi-Player button: Battle it out to match the most against your opponent in alternating turns

View Logs: Show past games played stored by date and time

Game Logic:

In single player the user is given 30 turns to correctly flip two cards and match them.

One turn is two cards being flipped

Score is compared to high score stored

In two player each player has 15 turns to correctly flip two cards and match them.

One turn is two cards being flipped

Winner is player with most correct matches found

Accessibility:

XCODE 12.1

Matched for iPhone 11

Game can be played in portrait and landscape mode

MAIN MENU – found on launch

Visible Features:

- Current Highscore showing you your current highest score achieved in the game
- Title of the game
- Single player button which will take you to play a single player game
- Multi-player button which will take you to play a two player game
- View logs button will show records of past games

Additional Features:

- Current Highscore is updated automatically when you achieve a new high score in single player

SINGLE PLAYER – found when Single Player button is pressed in menu

Visible Features:

- Live Game title screen
- Menu button which returns user to the menu
- Player 1 Score label which keeps track of matches user has found
- Turns label which tracks how many turns a user has played
- 30 random down facing cards are shown which the user can tap on to flip
- Alert box shown at the end of game

Shared Game Features:

- Cards have flip animation when they are tapped on
- If two cards are correct when flipped they stay facing up
- If two cards are incorrect when flipped they are flipped back
- Turns increments every time two cards are selected representing a turn
- Player 1 Score label increments when two cards flipped are the same representing a point

- Alert box is presented when all cards are flipped, or player hits 30 turns offering to play again or return to menu.
- Final game state is saved to the logs

Exclusive Single Player Features:

- Alert box shows current high score and player's score
- A new high score shows a congratulations message in alert box

TWO PLAYER – found when Multi-Player button is pressed in menu

Visible Features:

- ALL SHARED SINGLE PLAYER FEATURES +
- Player 2 Score label which keeps track of matches player 2 has found
- Current player's turn represented by red label

Additional Features:

- ALL SHARED SINGLE PLAYER FEATURES +
- Player 2 Score label increments when it is their turn and two cards flipped are the same representing a point
- Ending Alert box shows winner and both points of players

PREVIOUS GAME SAVES – found when View Logs button is pressed

Visible Features:

- Game Records title
- Menu button which returns user to the menu
- Table with dates of previous games played

Additional Features:

- Tapping on a cell with a date opens an alert box showing the result of that game, this includes the Player 1 and Player 2 final score
- Single Player games show value of Player 2 as -1