

University of North Florida

# **Group 4's Tic-Tac-Toe**

*Version 1*

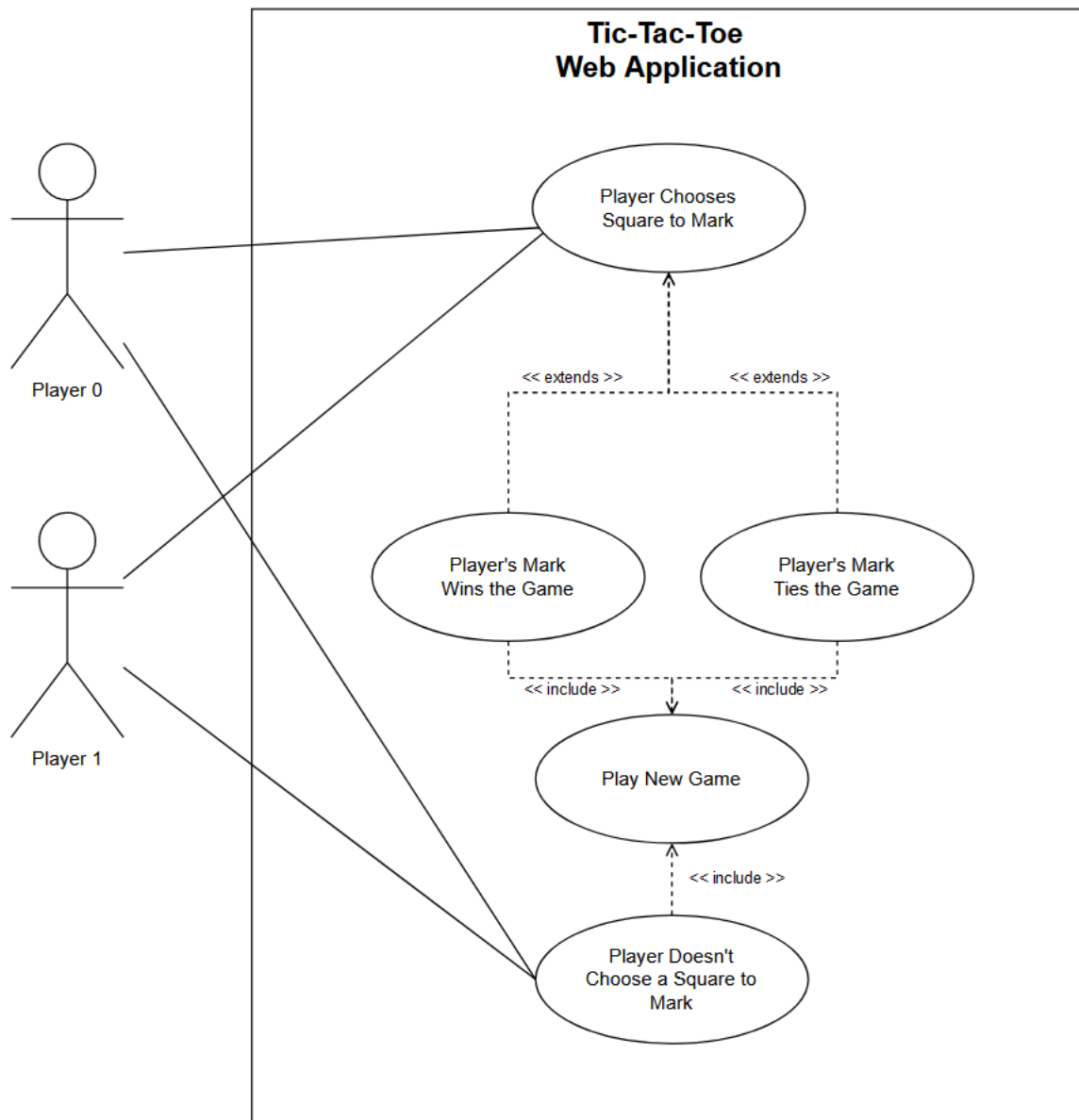
*Alex McTammany*

*Joel Papineau*

*Cody Thurber*

*Vincent Zire Almeda*

## USE CASE DIAGRAM



## USE CASE LIST

**USE CASE:** Player Chooses Square to Mark

**ACTORS:** Player 1, Player 2

**GOALS:** To fill a square with either an 'X' or an 'O', depending on which actor (player number) clicks

**PRECONDITIONS:** Game started (which occurs when webpage is opened)

**STEPS:**

1. Player selects a square to mark	2. a. Square is empty - square fills with player's respective mark ('X' / 'O') b. Square is full - nothing occurs (return to step one) 3. Remove highlight from current player's name and highlight opposing player's name
4. Return to step 1 for the opposing player	

**USE CASE:** Player Chooses Square to Mark and Wins the Game (3-in-a-row)

**ACTORS:** Player 1, Player 2

**GOALS:** Congratulate the winner of the game and increase their score by 1

**RELATED USE CASES:** *Extension of:* Player Chooses Square to Mark ... *Includes:* Play New Game

**PRECONDITIONS:** Player has two marks (of theirs) in a row, either diagonally, horizontally, or vertically

**STEPS:**

1. Player selects a square to mark that is the third in a (horizontal, vertical, diagonal) row	2. Dialog box appears and... a. congratulates player for winning the game b. asks if players would like to play another game 3. The winning player's display score goes up by 1
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**USE CASE:** Player Chooses Square to Mark and Ties the Game

**ACTORS:** Player 1, Player 2

**GOALS:** Alert the players to a tie and ask if they would like to play again

**RELATED USE CASES:** *Extension of:* Player Chooses Square to Mark ... *Includes:* Play New Game

**PRECONDITIONS:** All boxes minus one (n-1; n=9 currently) are ticked

**STEPS:**

1. Player selects the final square to mark that doesn't result in 3-in-a-row	2. Dialog box appears and... a. states there was a tie b. asks if players would like to play again
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**USE CASE:** Play New Game

**ACTORS:** Player 1, Player 2

**GOALS:** Prepare the game board for a new round

**RELATED USE CASES:** *Included by:* Player Chooses Square to Mark and Ties the Game,  
Player Chooses Square to Mark and Wins the Game,  
Player Doesn't Choose a Square to Mark

**PRECONDITIONS:** Game either ended in a win, tie, or exceeded timer length

**STEPS:**

1. User selects 'Play New Game' from dialog box	2. Dialog box disappears 3. Game board clears (all squares are emptied) 4. Timer resets to 30 seconds and displays in time box (in GUI) 5. Player O's name is highlighted
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**USE CASE:** Player Doesn't Choose a Square to Mark

**ACTORS:** Player 1, Player 2

**GOALS:** End the game due to the preset timer running out and ask if they would like to play again

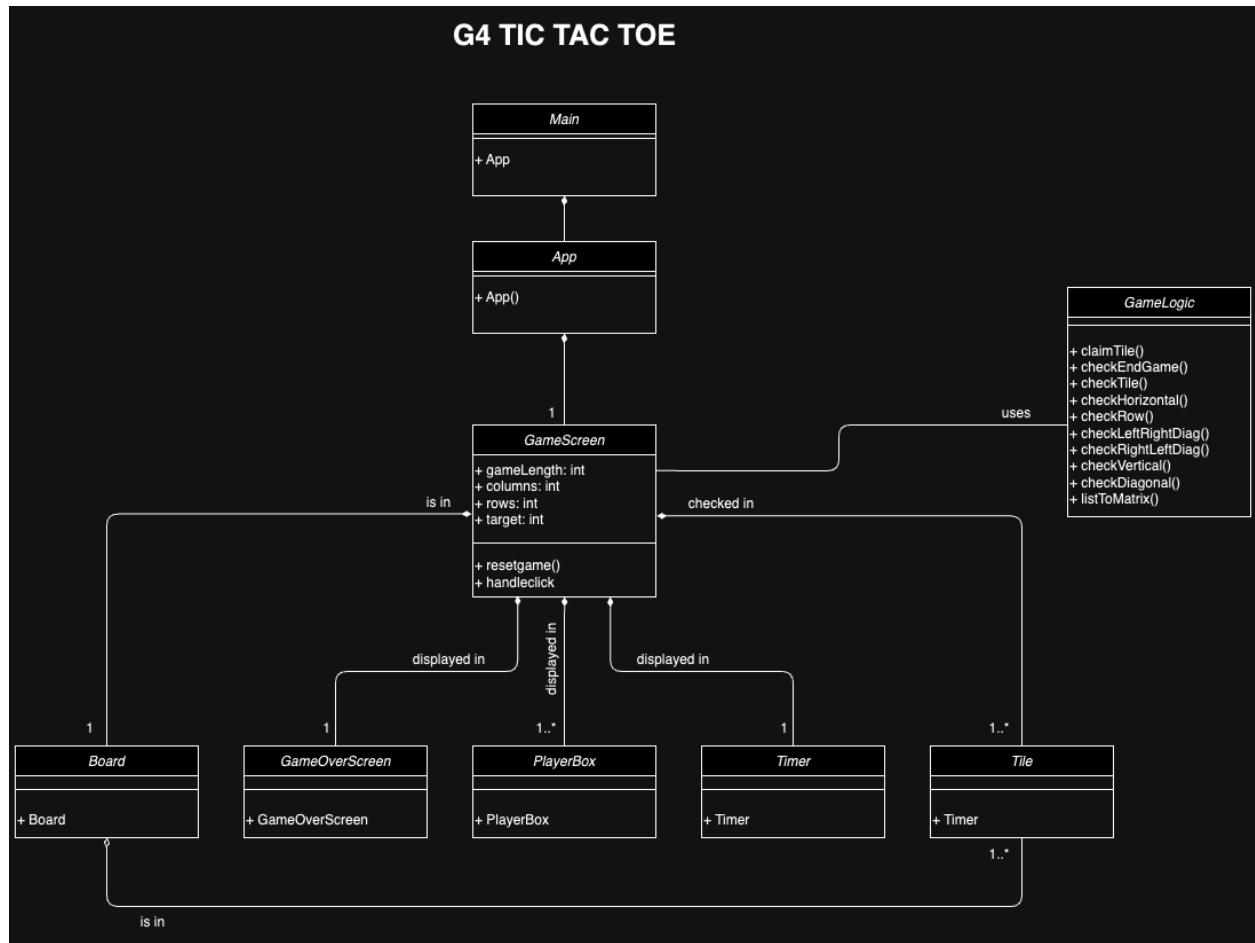
**RELATED USE CASES:** *Includes:* Play New Game

**PRECONDITIONS:** None

**STEPS:**

1. Player doesn't choose a square to mark within allotted time	2. Dialog appears and... <ul style="list-style-type: none"><li>a. states time ran out</li><li>b. asks if players would like to play again</li></ul>
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## UML CLASS DIAGRAM



## GIT COMMIT LOG

Author: Cody Thurber <83415278+TrustKibou@users.noreply.github.com>

Date: Sun Oct 22 20:42:01 2023 -0400

upd use case list/diagram, names on front page

commit b62f421584a17b646ad72503cf6ef87fba1de22d

Author: buknoynoynoy <vzire08@gmail.com>

Date: Sun Oct 22 20:13:28 2023 -0400

UPDATED Submission Packet

commit c190f7b31a6dff41c04b499cdd150b7d0e9e7c90

Author: buknoynoynoy <vzire08@gmail.com>

Date: Sun Oct 22 20:08:05 2023 -0400

fixed uml class diag

commit 1fdd47e0662b8c128a94114ae6744321e60cf1cd

Author: buknoynoynoy <vzire08@gmail.com>

Date: Sun Oct 22 19:59:06 2023 -0400

added uml class diagram

commit 7ec3bb047ce97070dd4331fd0128c04a8fb605ce

Author: Cody Thurber <83415278+TrustKibou@users.noreply.github.com>

Date: Sun Oct 22 18:56:39 2023 -0400

Update README (format).md

commit 40816eb87dee82776546a328724c5be7260b72ec

Author: Joel Papineau <118376438+j-papineau@users.noreply.github.com>

Date: Sun Oct 22 18:08:58 2023 -0400

Update README.md

note added about unit testing

commit b2700ef8398ff76724ae5580793892748348d4

Author: Joel Papineau <118376438+j-papineau@users.noreply.github.com>

Date: Sun Oct 22 18:03:42 2023 -0400

Update README.md

commit 90d6746de8f41d3a057b3142525cb3df90b39d37

Merge: 1105ff7 e7d0d3e

Author: Joel Papineau <118376438+j-papineau@users.noreply.github.com>

Date: Sun Oct 22 16:32:00 2023 -0400

Merge pull request #1 from UNF-CEN4010/Joel-Logic-Patch

Joel logic patch

commit e7d0d3e69ae8e7ef70f51b37d360df022c3b8e0f (origin/Joel-Logic-Patch, origin/Cody\_Style-ATT)

Author: Cody Thurber <83415278+TrustKibou@users.noreply.github.com>

Date: Fri Oct 20 21:59:22 2023 -0400



updated ucd/ucl

commit 2fa735a0eaa27137bb3ad0eeb3fd21333bc25a51

Author: Cody Thurber <83415278+TrustKibou@users.noreply.github.com>

Date: Fri Oct 20 19:34:10 2023 -0400

UPDATED submission packet

commit aa24606e2140623c8d8f485e5ce3af3f8e054543

Author: Cody Thurber <83415278+TrustKibou@users.noreply.github.com>

Date: Fri Oct 20 19:23:44 2023 -0400

Update README with game info

commit e7da682a27c5c1e06938cab35308b7cae0951506

Author: Cody Thurber <83415278+TrustKibou@users.noreply.github.com>

Date: Fri Oct 20 18:50:17 2023 -0400

use case list/diagram; prepped pdf deliverable

commit 6d8b65f27bfc1769e39d18292e112aba7a1f6353

Author: Joel Papineau <118376438+j-papineau@users.noreply.github.com>

Date: Fri Oct 20 01:23:08 2023 -0400

game logic improvements

commit 1105ff71e06da138ab8cc65965f92e71956a37af

Author: Alex McTammany <apmctammany@gmail.com>

Date: Tue Oct 17 23:31:11 2023 -0400

added timer

commit d909ba62764041dfc53a5dc519660ce0dfba4a1a

Author: Alex McTammany <apmctammany@gmail.com>

Date: Tue Oct 17 13:55:17 2023 -0400

added tie conditions

commit 2e17e1f7c4ee805491838a309d5f5db9d0110573

Author: Alex McTammany <apmctammany@gmail.com>

Date: Thu Sep 28 19:23:04 2023 -0400

added scoring for each game

commit f3753aa597ce6fe0b63e4d6ad94554ba4286d89c

Author: Alex McTammany <apmctammany@gmail.com>

Date: Thu Sep 28 17:55:53 2023 -0400

correctly formatted readme

commit e82ab7ca29897e9748358b9c35ee33a24b50b5e9

Author: Alex McTammany <apmctammany@gmail.com>

Date: Thu Sep 28 17:53:47 2023 -0400

formatted readme

commit ab74a7dc04688cdc55a95f7270d5ca92e29df478

Author: Alex McTammany <apmctammany@gmail.com>

Date: Thu Sep 28 17:52:21 2023 -0400

added installation instructions to readme.

commit 5aef3763de15ff9e8067d4a5427edf77540592aa

Author: Alex McTammany <apmctammany@gmail.com>

Date: Thu Sep 28 13:39:18 2023 -0400

added vitest

commit a3056443f5383401f399bee35208df3db8c820be

Author: Alex McTammany <apmctammany@gmail.com>

Date: Thu Sep 28 13:33:03 2023 -0400

added reset game functionality

commit 47f0af4b1a86cd0693c7bfd82aeaa13045c0b9b1

Author: Alex McTammany <apmctammany@gmail.com>

Date: Thu Sep 28 12:33:06 2023 -0400

added game over code and screen to display it. need to have back button  
reset everything (and eventually record player score)

commit 4ebadd00859da9b138923481ba9a7243df43c17b

Author: Alex McTammany <apmctammany@gmail.com>

Date: Thu Sep 28 12:02:05 2023 -0400

added tailwindcss + postcss processor

commit b2f373fa5b38c99043504b528a504209aedd86d3

Author: Alex McTammany <apmctammany@gmail.com>

Date: Thu Sep 28 10:41:14 2023 -0400

added GameOverScreen (skeleton) and PlayerBox for showing the current turn and eventually the players score

commit 9cf4a9a78de00cbcc23dca1f48492433c60fca03

Author: Alex McTammany <apmctammany@gmail.com>

Date: Thu Sep 28 10:11:12 2023 -0400

initial commit. proof of concept. gameboard with interactive tiles. no victory or endgame logic.

(END)