

3 in 1 Game

Test Plan

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Identification and Classification	Test Case 001: Set a Unique Username System: 3 In One Game Severity: Important Classification: Functionality Test
Instructions	<ul style="list-style-type: none"> • Open the 3-in-one application • enter a unique username into the given field
Expected Result	<ul style="list-style-type: none"> • Each username will be associated with a score in the application as you play the different games • User name is necessary to connect to a second player for multiplayer gameplay.

Identification and Classification	Test Case 002: Change Username System: 3 In One Game Severity: Important Classification: Functionality Test
Instructions	<ul style="list-style-type: none"> • Open the 3-in-one application • enter a unique username into the given field • Change the username
Expected Result	<ul style="list-style-type: none"> • The new username will be associated with a score in the application as you play the different games • The score obtained with the original username transfers to the new username • New user name can be used for multiplayer game play as well

Identification and Classification	Test Case 003: Connect to a Single Player game of Connect 4 System: 3 In One Game Severity: Critical Classification: Functionality Test
Instructions	<ul style="list-style-type: none"> • Open the 3-in-one application • enter a unique username into the given field • Select “Connect 4” • Select “Singleplayer”
Expected Result	<ul style="list-style-type: none"> • Creates an empty Connect 4 which responds with an AI as an opponent

Identification and Classification	Test Case 004: Connect to a Single Player game of Tic Tac Toe System: 3 In One Game Severity: Classification:
Instructions	<ul style="list-style-type: none"> • Open the 3-in-one application • enter a unique username into the given field • Select “Tic Tac Toe” • Select “Singleplayer”

Expected Result	<ul style="list-style-type: none"> Creates an empty Tic Tac Toe game which responds with an AI as an opponent
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Identification and Classification	Test Case 005: Connect to a Single Player game of Hangman System: 3 In One Game Severity: Critical Classification: Functionality Test
Instructions	<ul style="list-style-type: none"> Open the 3-in-one application enter a unique username into the given field Select "Hangman" Select "Singleplayer"
Expected Result	<ul style="list-style-type: none"> Creates an empty Hangman game which responds with an AI as an opponent

Identification and Classification	Test Case 006: Connect to a Multiplayer game of Connect 4 System: 3 In One Game Severity: Critical Classification: Functionality Test
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Instructions	<ul style="list-style-type: none"> • Open the 3-in-one application • enter a unique username into the given field • Select “Connect 4” • Select “Multiplayer” • Select “Host” • Have a friend join your game
Expected Result	<ul style="list-style-type: none"> • Creates an empty Connect 4 game which allows you to play against your friend.

Identification and Classification	<p>Test Case 007: Connect to a Multiplayer game of Tic Tac Toe</p> <p>System: 3 In One Game</p> <p>Severity: Critical</p> <p>Classification: Functionality Test</p>
Instructions	<ul style="list-style-type: none"> • Open the 3-in-one application • enter a unique username into the given field • Select “Tic Tac Toe” • Select “Multiplayer” • Select “Host” • Have a friend join your game
Expected Result	<ul style="list-style-type: none"> • Creates an empty Connect 4 game which allows you to play against your friend.

Identification and Classification	Test Case 008: Connect to a multiplayer game of Hangman System: 3 In One Game Severity: Critical Classification: Functionality Test
Instructions	<ul style="list-style-type: none"> • Open the 3-in-one application • enter a unique username into the given field • Select “Hangman” • Select “Multiplayer” • Select “Host” • Have a friend join your game
Expected Result	<ul style="list-style-type: none"> • Creates an empty Hangman game which allows you to play against your friend.

Identification and Classification	Test Case 009: See score after completing a game System: 3 In One Game Severity: Workaround Classification: Functionality Test
Instructions	<ul style="list-style-type: none"> • Finish a game and get an updated score (increases by 1 if you win, decreases by 1 if you lose)
Expected Result	<ul style="list-style-type: none"> • This score persists after you complete the game and go onto other games

Identification and Classification	Test Case 010: See a menu of all games System: 3 In One Game Severity: Critical Classification: Functionality Test
Instructions	<ul style="list-style-type: none"> • Open the app • See if there is a menu of all of the different games you can play
Expected Result	<ul style="list-style-type: none"> • There is a menu of all of the different games that you can play

Identification and Classification	Test Case 011: Select a game from the menu System: 3 In One Game Severity: Critical Classification: Functionality Test
Instructions	<ul style="list-style-type: none"> • Open the app • Select a game from the menu
Expected Result	<ul style="list-style-type: none"> • It should proceed to begin the game that you selected

Identification and Classification	Test Case 012: Connect to a friend's game via their username System: 3 In One Game Severity: Critical Classification: Functionality Test
Instructions	<ul style="list-style-type: none"> • Have a friend host a game of whichever game • Select that game on your phone • Select "Multiplayer" • Select "Join" • Enter your friend's unique username
Expected Result	<ul style="list-style-type: none"> • The multiplayer game should begin for both you and your friend • You should be able to play the game with your friend

Identification and Classification	Test Case 013: Host a multiplayer game and have your friend join the game System: 3 In One Game Severity: Critical Classification: Functionality Test
Instructions	<ul style="list-style-type: none"> • Open the app • Select a game • Select "Host" • Wait for your friend to join your game
Expected Result	<ul style="list-style-type: none"> • When your friend joins the game, the game should begin for both you and your friend • You should be able to complete the multiplayer game with your friend

Identification and Classification	Test Case 014: See the connect 4 board once I select connect 4 System: 3 In One Game Severity: Critical Classification: Functionality Test
Instructions	<ul style="list-style-type: none"> • Open the app • Select Connect 4 game mode • Select single player or multiplayer
Expected Result	<ul style="list-style-type: none"> • The connect 4 game should show up • You should be able to start playing the game

Identification and Classification	Test Case 015: I would like to see the tic-tac-toe board once I select tic-tac-toe System: 3 In One Game Severity: Critical Classification: Functionality Test
Instructions	<ul style="list-style-type: none"> • Open the app • Select the tic-tac-toe game • Select single player or multiplayer
Expected Result	<ul style="list-style-type: none"> • The tic tac toe game board should show up on load

Identification and Classification	Test Case 016: I would like to see the hangman screen once I select hangman System: 3 In One Game Severity: Critical Classification: Functionality Test
Instructions	<ul style="list-style-type: none"> • Open the app • Select the hangman game • Select single player or multiplayer
Expected Result	<ul style="list-style-type: none"> • The hangman game board should show up

Identification and Classification	Test Case 017: I would like the connect 4 game to end when I select the forfeit option System: 3 In One Game Severity: Critical Classification: Work around
Instructions	<ul style="list-style-type: none"> • Open the app • Select the connect 4 game • Select singleplayer or multiplayer • Click on the forfeit option
Expected Result	<ul style="list-style-type: none"> • Game should end and the score count should be updated

Identification and Classification	Test Case 018: I would like the tic tac toe game to end when I select the forfeit option System: 3 In One Game Severity: Critical Classification: Functionality Tests
Instructions	<ul style="list-style-type: none"> • Open the app • Select the tic tac toe • Select singleplayer or multiplayer • Click on the forfeit option
Expected Result	<ul style="list-style-type: none"> • Game should end and the score count should be updated

Identification and Classification	Test Case 019: I would like the hangman game to end when I select the forfeit option System: 3 In One Game Severity: Critical Classification: Functionality Tests
Instructions	<ul style="list-style-type: none"> • Open the app • Select the hangman game • Select multiplayer • Select the forfeit option
Expected Result	<ul style="list-style-type: none"> • The game should end for the other users in the game

Identification and Classification	Test Case 020: When I close the app while playing connect 4, the game should end for all users System: 3 In One Game Severity: Critical Classification: Boundary Value Test
Instructions	<ul style="list-style-type: none"> • Open the app • Select the connect 4 • Select multiplayer • Close the app
Expected Result	<ul style="list-style-type: none"> • The game should end for the other users in the game

Identification and Classification	Test Case 021: When playing tic-tac-toe, and I close the app, I would like the tic-tac-toe game to end System: 3 In One Game Severity: Critical Classification: Boundary Value Test
Instructions	<ul style="list-style-type: none"> • Open the app • Select the tic-tac-toe • Select multiplayer • Close the app
Expected Result	<ul style="list-style-type: none"> • The game should end for the other users in the game

Identification and Classification	Test Case 022: When playing hangman, and I close the app, I would like the hangman game to end System: 3 In One Game Severity: Critical Classification: Boundary Value Test
Instructions	<ul style="list-style-type: none"> • Open the app • Select the hangman • Select multiplayer • Close the app
Expected Result	<ul style="list-style-type: none"> • The game should end for the other users in the game

Identification and Classification	Test Case 023: Usernames should be able to include numbers System: 3 In One Game Severity: Workaround Classification: Equivalence Class Test
Instructions	<ul style="list-style-type: none"> • Open the app • Enter username, such as 'bugofwordsplayer1' • Start a game
Expected Result	<ul style="list-style-type: none"> • The user name should be set and have no problems with numbers in the name.

Identification and Classification	Test Case 023: Usernames should be able to special characters System: 3 In One Game Severity: Workaround Classification: Equivalence Class Test
Instructions	<ul style="list-style-type: none"> • Open the app • Enter username, such as 'bug_of_words_player!' • Start a game
Expected Result	<ul style="list-style-type: none"> • The user name should be set and have no problems with special characters and punctuation