Tug Of Words Test Plan

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Identification and Classification	Test Case 001: Create a Private Room
	System: Tug of Words
	Module: Lobby
	Severity: Crucial
	Classification: Functionality Test
Instructions	 Open the Tug Of Words home page Select "private room" Select "join game"
Expected Result	 A private game room should be created No public users should be added to private room, users can only join by invite

Identification and Classification	Test Case 002: Joining a public game room
	System: Tug of Words
	Module: Lobby
	Severity: Crucial
	Classification: Functionality Test

Instructions	 Open the Tug Of Words home page Select "join game"
Expected Result	 User should be entered into a random public game room User should see other random people join the room as they log on As public users join, they should be added to one of the two teams

Identification and Classification	Case 003: Join a private game room
	System: Tug of Words
	Module: Lobby
	Severity: Crucial
	Classification: Functionality Test
Instructions	 Have a friend create a private game room in Tug of Words Have the friend send you the generated private room URL Open the generated private room URL in your browser
Expected Result	 User is added to a private game room that their friend is already in User selects which team they are added to No public users can join the game room Both the user and their friend can add other users by sharing the generated private room URL

Identification and Classification	Case 004: Automatic team distribution in public rooms System: Tug of Words Module: Lobby Severity: Important Classification: Functionality Test
Instructions	Join a public game room
Expected Result	 Once the user successfully joins the game room, they will be added to one of the two teams There are 3 different cases to be tested: If the two teams have an equal number of players on them when the user joins, the user will be placed randomly on one of the teams If the left team has more players on it than the right team, the user will be placed on the right team If the right team has more players on it than the left team, the user will be played on the left team

Identification and Classification	Case 005: Earn points for typing a word correctly
	System: Tug of Words
	Module: Word Check
	Severity: Crucial

	Classification: Functionality Test
Instructions	 Join a public/private game room Begin the game As words appear on the screen, type some of them correctly As words appear on the screen, type some of the incorrectly
Expected Result	 Your individual contribution score should be incremented based on the number of people on your team for each word that you type correctly Your individual contribution score should not increase when you type a word incorrectly Your individual contribution score should decrease when you type a word incorrectly

Identification and Classification	Case 006: See individual point contributions during game
	System: Tug of Words
	Module: Scoring
	Severity: Important
	Classification: Functionality Test
Instructions	 Have multiple users join a game Each user enter some words correctly Each user enter some words incorrectly

Expected Result	A leaderboard should be displayed with the top users from each team

Identification and Classification	Case 007: See Individual points post-game
	System: Tug of Words
	Module: Scoring
	Severity: Important
	Classification: Functionality Test
Instructions	 Join a game Enter some words correctly Enter some words incorrectly See score at the end of the game
Expected Result	Score should be aggregated and displayed in the UI

Identification and Classification	Case 008: User typing speed statistics
	System: Tug of Words
	Module: Scoring

	Severity: Workaround
	Classification: Functionality Test
Instructions	 Join a game Type most words correctly Type some words incorrectly
Expected Result	At the end of the game, WPM, CWPM, and Accuracy should be displayed correctly

Identification and Classification	Case 009: Lose points when typing a word incorrectly
	System: Tug of Words
	Module: Scoring
	Severity: Important
	Classification: Functionality Test
Instructions	 Join a game Type some words correctly Type some words incorrectly

Expected Result	Individual and team points should be decreased each incorrectly typed phrase

Identification and Classification	Case 010: Pick a team when joining a private room
	System: Tug of Words
	Module: Lobby
	Severity: Crucial
	Classification: Functionality Test
Instructions	 Join a private room (either by creating one or using a shared link) Choose Team 1 or Team 2
Expected Result	 If user selects Team 1 they'll be placed into Team 1. If user selects Team 2 they'll be placed into Team 2.

Identification and Classification	Case 011: Share a link to a private room with friends
	System: Tug of Words

	Module: Lobby
	Severity: Important
	Classification: Functionality
Instructions	Share generated link with friends and make them join your private room.
Expected Result	 While in room, other users should show up as they join Person joining the room should go to the waiting lobby of the specific game that was shared in the link.

Identification and Classification	Case 012: Nickname creation
	System: Tug of Words
	Module: Lobby
	Severity: Crucial
Instructions	 Go to Tug of Words homepage Type in Nickname Hit play to join a public room or create a private room and continue process.

Expected Result	If Nickname was entered, that nickname will be in our database as a temporary user.

Identification and Classification	Case 013: Teams of unequal size in a private room. System: Tug of Words Module: Lobby Severity: Crucial Classification: Functionality
Instructions	 Join a private room (either by creating one or using a shared link) Choose Team 1 or Team 2
Expected Result	 When in a private room, a user has the option to choose whichever team they would like to be on. If user selects Team 1 they'll be placed into Team 1 If user selects Team 2 they'll be placed into Team 2 Therefore, the number of players do not have to be equal between the two teams.

Identification and Classification	Case 014: Game start after two people join a room
	System: Tug of Words

	Module: Lobby Severity: Important Classifications: Functionality
Instructions	 Create a room User 1 joins the room User 2 joins the room
Expected Result	 When User 1 joins the room the game should not begin When User 2 joins the room the game should automatically begin

Identification and Classification	Case 015: Move the rope towards a winning team System: Tug of Words Module: Scoring Severity: Crucial Classifications: Functionality
Instructions	 Create a room Start the game Team 1 types a word correctly while Team 2 remains idle
Expected Result	Assuming that the room creation and game initialization functions, after the game begins, the rope should move towards team 1's side.

Identification and Classification	Case 016: Move rope away due to mistakes
	System: Tug of Words

	Module: Scoring Severity: Important Classification: Functionality
Instructions	 Create a room Start the game Team 1 types a word incorrectly while Team 2 remains idle
Expected Result	Assuming that the room creation and game initialization functions, after the game begins, the rope should move away from team 1's side.

Identification and Classification	Case 017: Sufficiently randomized words during game play
	System: Tug of Words
	Module: Word Gen
	Severity: Important
	Classification: Functionality
Instructions	Start a gameCorrectly type a wordIncorrectly type a word
Expected Result	 When the correct word is typed, a new random word should be generated When an incorrect word is typed, a new random word should be generated

Identification and Classification	Case 018: Hot bonuses for streaks in game System: Tug of Words Module: Scoring Severity: Work around Classification: Functionality
Instructions	 Start a game Correctly type a word Repeat above
Expected Result	 After a minimum of 5 words is typed without error, a multiplier is added to the score each word contributes to the game A Visual symbol is displayed to make the user aware of the status of the streak As the streak of correct words grows larger, the multiplier grows as well After a certain streak, the bonus multiplier is capped and does not increase anymore

Identification and Classification	Case 019: Access via internet (deployment)
	System: Tug of Words
	Module: Deployment
	Severity: Important
	Classification: Functional

Instructions	 Type the public url for Tug Of Words into your browser <enter></enter>
Expected Result	 The create/join game menu renders to the screen The user is able to interact with the application from this link

Identification and Classification	Case 020: Words displayed on enemy screen System: Tug of Words Module: In-Game Severity: Workaround Classification: Functionality Test
Instructions	 Create or join a game Make sure someone is on the opposite team As they type words, watch the interface for words that they have typed correctly
Expected Result	As the opponent types correct words, they appear on my screen

Identification and Classification	Case 021: Boundary Test for Nickname Creation System: Tug of Words Module: Severity: Crucial Classification: Boundary Test
Instructions	 Go to Tug of Words homepage Type in a really long Nickname Hit play to join a public room or create a private room and continue process.
Expected Result	 If Nickname was entered, that nickname will be in our database as a temporary user. Shows that length of Nickname does not matter.

Identification and Classification	Case 022: Boundary Test for Nickname Creation - Special Characters System: Tug of Words Module: Lobby Severity: Crucial
	Classification: Boundary
Instructions	 Go to Tug of Words homepage Type in a nickname with invalid characters Hit play to join a public room or create a private room and continue process.

Expected Result	 If an invalid Nickname was entered, it must throw and error Ask for a the user to enter a valid nickname.

Identification and Classification	Case 023: Boundary Test for Nickname Creation - No Name System: Tug of Words Module: Lobby Severity: Crucial
	Classification: Boundary
Instructions	 Go to Tug of Words homepage No nickname Hit play to join a public room or create a private room and continue process.
Expected Result	 If an invalid Nickname was entered, it must throw and error Ask for a the user to enter a valid nickname.

Identification and Classification	Case 024: Game start after two people join a room
	System: Tug of Words

	Module: Lobby
	Severity: Important
	Classifications: Equivalence Class
Instructions	Equivalence Class: 0, 1, 2, 3 to infinity • Start a game • x number of users join the lobby, depending on the equivalence class.
Expected Result	 Game should not begin if there are 0 or 1 user in the lobby Game should begin when 2 players join the room regardless of how many enter afterwards

Identification and Classification	Case 025: Teams of equal size in a public room. System: Tug of Words Module: Lobby Severity: Crucial Classification: Functionality
Instructions	 Go to Tug of Words homepage Enter nickname Hit play Placed in team
Expected Result	 If Team 1 had less people, user would get placed in Team 1 If Team 2 had lass people, user would get placed in Team 2 If the two teams are of equal size, user would get placed into a random team.

Identification and Classification	Case 026: Move the rope towards a winning team System: Tug of Words Module: Scoring Severity: Important Classifications: Boundary Value
Instructions	 Create a room Start the game Team 1 types arbitrary large number of words correctly while Team 2 remains idle
Expected Result	 Assuming that the room creation and game initialization functions, after the game begins, the rope should move towards team 1's side at a rapid pace, resulting in an almost instant team 1 victory.

Identification and Classification	Case 027: Move rope away due to mistakes
	System: Tug of Words
	Module: Scoring
	Severity: Important
	Classification: Boundary Value
Instructions	 Create a room Start the game Team 1 types arbitrary large number of words incorrectly while Team 2 remains idle
Expected Result	Assuming that the room creation and game initialization functions, after the game begins, the rope should move away from team 1's side at a rapid

pace, resulting in an almost instant team 2 victory.
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Identification and Classification	Case 028: Sufficiently randomized words during game play System: Tug of Words Module: Word Gen Severity: Important Classification: Boundary Value
Instructions	 Start a game Correctly type arbitrary large number of words Incorrectly type arbitrary large number of words
Expected Result	 Every time a correct word is typed, a new random word should be generated Every time an incorrect word is typed, a new random word should be generated Each word generated after a correctly typed word should have similar distribution Each word generated after a incorrectly typed word should have similar distribution All generated words should have similar distribution

Identification and Classification	Test Case 029: Create a Private Room Boundary
	System: Tug of Words
	Module: Lobby
	Severity: Important
	Classification: Boundary Test

Instructions	 Open the Tug Of Words home page Select "private room" Select "join game" Repeat many times, until there are many private rooms created
Expected Result	 All private game rooms should be created successfully The large number of private rooms should not cause any errors for any of the rooms

Identification and Classification	Test Case 030: Create a Private Room Equivalence Test System: Tug of Words Module: Lobby Severity: Important Classification: Equivalence Test
Instructions	 Equivalence Classes: 0-10, 10-50, 50-infinity Open the Tug Of Words home page Select "private room" Select "join game" Repeat many times, until there are many private rooms created

Expected Result	 All private game rooms should be created successfully The large number of private rooms should not cause any errors for any of the rooms or gameplay for any of the users

Identification and Classification	Test Case 031: Joining a public game room Boundary Test System: Tug of Words Module: Lobby Severity: Important Classification: Boundary Test
Instructions	 Open the Tug Of Words home page Select "join game" Repeat this process enough times to generate a large amount of public game rooms concurrently
Expected Result	 All public game rooms should be created successfully The large number of public rooms should not cause any errors for any of the rooms or gameplay for any of the users

Identification and Classification	Test Case 032: Joining a public game room Equivalence Test
	System: Tug of Words
	Module: Lobby

	Severity: Important Classification: Equivalence Test
Instructions	 Open the Tug Of Words home page Select "join game"
Expected Result	 Equivalence Classes: 0-10, 10-50, 50-infinity User should be entered into a random public game room User should see other random people join the room as they log on As public users join, they should be added to one of the two teams

Identification and Classification	Case 033: Team distribution in private rooms Boundary Test System: Tug of Words Module: Lobby Severity: Workaround Classification: Boundary Test
Instructions	 Create a private room Add a large number of people to the private room via the generated URL

Expected Result	 There should be a size limit of 20 for each team in a game room. This would mean that the total size of the game room is 40. Once there are 40 members in a game room, there should be exactly 20 people on each team. If any additional users try to join the game room, they will be redirected to a page that effectively says "Sorry, this lobby is full" If any team already has 20 people on it, new users should only be able to be added to the other team
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Identification and Classification	Case 034: Team distribution in public rooms Boundary Test System: Tug of Words Module: Lobby Severity: Workaround Classification: Boundary Test
Instructions	 Create a private room Add a large number of people to the private room via the generated URL
Expected Result	 There should be a size limit of 20 for each team in a game room. This would mean that the total size of the game room is 40. Once there are 40 members in a game room, there should be exactly 20 people on each team. If any additional users try to join the game room, they will be redirected to a page that effectively says "Sorry, this lobby is full"