**BLACK BOX TEST – Group 2**

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| ID | ACTION/ TEST CONDITION | EXPECTED RESULT | ACTUAL RESULT | PASS/FAIL |
| 1 | Create new user account | New user is created and stored in database. | Working as expected. | Pass |
|  |  |  |  |  |
| 2 | Navigate to profile menu | Given that a user selects a profile, When the ‘select profile’ button is clicked, Then the profile menu page is displayed. | Profile menu screen is displayed. | Pass |
|  |  |  |  |  |
| 3 | Navigate to main game screen | Given that a user wants to select a difficulty level to start game, When the user clicks on a difficulty button, Then the game page is displayed. | Game page is displayed. | Pass |
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| 4 | Click start to begin game | Given that a user wants to start the game, When the user clicks on the screen, Then the game should begin. | Game started on clicking the screen. | Pass |
|  |  |  |  |  |
| 5 | Check Available Food | Given that there is no sufficient food in the colony, When a user tries to place an ant in the colony, Then an error message ‘Not enough food to place ant’ is displayed. | Error message ‘Not enough food to place ant’ is displayed. | Pass |
|  |  |  |  |  |
| 6 | Deploy an Ant in an occupied place | Given that a user tries to place an ant in an occupied place, And the ant is not a bodyguard ant, When the ant is placed in the occupied place, Then an error message ‘There is already an ant here’ is displayed. | Error message ‘There is already an ant here’ is displayed. | Pass |
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| 7 | Deploy an ant in a place filled with water | Given that a user tries to place an ant in a place filled with water in the colony, and the ant is not a scuber ant or queen ant, when the ant is deployed to water, Then an error message ‘This ant cannot swim’ is displayed. | Error message ‘This ant cannot swim’ is displayed. | Pass |
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| 8 | Place multiple queen ants in the colony | Given that a user tries to place more than one queen ant in the colony, When another queen ant is deployed to join an existing queen ant in the colony, Then an error message ‘A Queen ant has already been placed in the colony!’ is displayed | Error message ‘A Queen ant has already been placed in the colony!’ is displayed. | Pass |
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| 9 | Check functionality of pause button | Given that a user tries to pause the game, When the ‘pause’ button is clicked, Then the game will pause, and the pause screen is displayed. | Working as expected. | Pass |
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| 10 | Check functionality of continue button | Given that a user tries to continue the game, When the ‘continue’ button is clicked, Then the game resumes. | Working as expected. | Pass |
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| 11 | Check functionality of restart button | Given that a user tries to restart the game, when the ‘restart’ button is clicked, Then the game begins from scratch. | Working as expected. | Pass |
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| 12 | Check the ants ability buttons functionality in the game guide menu. | Given that a user tries to read the game instructions, when each button in the game guide screen is clicked, Then an instruction message is displayed. | Working as expected. | Pass |
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| 13 | Check the quit button functionality | Given that a user tries to quit the game, When the quit button is clicked, Then the entire game is closed. | Working as expected. | Pass |
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| 14 | Check duplicate JFrame screens | Given that a JFrame screen is launched, When the screen is closed and relaunched, Then no duplicate screen should exist. | Working as expected. | Pass |
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| 15 | Check Food management in the colony | Given that a user tries to deploy an ant to the colony, When the ant is deployed, Then the food in the colony should reduce with respect to the ant’s food cost. | Working as expected. | Pass |
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| 16 | Check if a user wins the game | When a user wins the game, Then a success message is ‘All bees are vanquished. You win!’ is displayed. | Success message ‘All bees are vanquished. You win!’ is displayed | Pass |
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| 17 | Check if queen ant can be removed | Given that a user tries to remove the queen ant, When the ‘bye’ button is clicked, Then an error message ‘You cannot remove the queen ant’ is displayed. | Error message ‘You cannot remove the queen ant’ is displayed | Pass |
|  |  |  |  |  |
| 18 | Check if user has lost the game | When a user loses the game, Then a failure message ‘The ant queen has perished! Please try again.’ is displayed. | Failure message ‘The ant queen has perished! Please try again.’ is displayed. | Pass |
|  |  |  |  |  |
| 19 | Check valid profile name | Given that a user tries to create a new account, And the profile matches an existing profile, When the ‘submit’ button is clicked, Then an error message ‘Profile name is not valid’ is displayed. | Error message ‘Profile name is not valid’ is displayed. | Pass |
|  |  |  |  |  |
| 20 | Check blank text field for profile creation | Given that a user tries to create an account, And no character is typed in the text, And the text field remains blank, When the submit button is clicked, Then an error message ‘Profile name is not valid’ is displayed. | Error message ‘Profile name is not valid’ is displayed. | Pass |