

Integration Testing

Test Case Number OR Id: Test Six

Author: Zheng Zhipeng Peter

Related Requirement: game package and movable package

Test Description: Make sure all classes work together and the game runs well.

Test Procedure:

1. Run the game
2. Select Single Player
3. Press the keys (arrows up, left, and right) corresponding with movement.
 - (1) When either spaceship collides with asteroid, the explosion displays and a life is lost.
 - (2) If there is life left in the shield meter, no collision should occur.
4. Press the key (spacebar) corresponding to shooting.
 - (1) Make sure when a shot from either spaceship hits an asteroid, the asteroid either splits or disappears (depending on which type it is).
 - (2) If either spaceship shot hits a UFO, the UFO should disappear.
5. When hit by a UFO shot, the explosion displays and a life is lost.
6. When a bonus drop is displayed on screen, a noise should be made.
7. When all lives lost, the screen display 'Game Over'
8. Select Multiplayer
9. Press the keys (arrows up, left, and right) corresponding with movement of the first player.

10. Press the keys (W, A, D) corresponding with movement of the second player.

11. Press the key (spacebar, shift) corresponding to shooting.

Expected Result: All the features would work well.

Test Results:

In the single player mode:

1. The keys (arrows up, left, and right) correspond with movement.

There is life left in the shield meter, no collision occurs.

2. The spaceship explodes upon impact with asteroid and UFO shot, losing a life.

This is repeated 3 times and Game Over is displayed.

3. The UFO explodes when shot by spaceship.

4. The asteroid disappears or splits when hit by a shot.

5. The bonus drop is displayed on screen, the sound effect shows.

6. After losing 3 lives, the screen display 'Game Over'

In the multiplayer mode:

1. The keys (arrows up, left, and right) correspond with movement of the first player.

2. The keys (W, A, D) correspond with movement of the second player.

3. The key (spacebar, shift) corresponds to shooting.

Test Passed.