Testing Plan

Much of the testing plan is geared towards making sure the variables that keep track of in game events are working properly. The correct setting and use of these variables is important because they are essential for the player to progress throughout the game. Another large portion of the testing is devoted to the use and creation of items, as they are essential to the balance of the game. Many of the tests are completed 10 times due to the random nature of the game.

Test	Input Value	Expected Outcome	Observed Outcome
Determine if input	Input character on	Invalid input message	Invalid input message
validation for integers	each screen that asks		
is working	for integer input		
Determine if the input	Input an out of bounds	Invalid input message	Invalid input message
validation is working	integer on each screen		
for bound checking	that asks for integer		
	input		
Determine if enemies	Run the game 10 times,	The enemy attacks the	The enemy attacked
are moving around the	make sure an enemy	player at least once	the player at least once
ship as they are	attacks the player at	before the 10 th turn on	before the 10 th turn on
supposed to	least once in the first	each run of the game	each run of the game
	10 turns		
Determine if the Items	Select the options to	Look in inventory after	Inventory shows
are being created	create each of the 3	creating item, it should	created item
properly	items	be there	
Determine if the items	Obtain and use each	Look in inventory	The item was in the
are being used and	item	before and after use, it	inventory before use
deleted properly		should be there before	but not after
		but not after	
Determine if the	Keep playing the game	Each recorded damage	Each recorded damage
enemy is attacking for	until you encounter the	should be between 5	is between 5 and 5
the correct amount of	enemy 10 times and	and 2	
health	record the damage		
	done each time		
Determine if the Heal	After taking more than	Each amount healed	Each amount healed
function is healing for	half health, go to the	should be 4	was 4
the correct amount of	medbay and heal		
points	yourself and record the		
	amount healed (do this		
Datamain - (b - b - 1	10x)	The diament of the	The diameter of the co
Determine the heal	After taking less than 4	The displayed player	The displayed player
function is not healing	damage, go to the	health should never be	health is never above
for over max health	medbay and heal (do	above 10	10
	this 10x)		

Datamaina if the	A ft t - 1 t	Facility and a control of	Fach amazont harded
Determine if the use	After taking more than	Each amount healed	Each amount healed
medkit function is	half health, use a	should be 3	was 3
healing for the correct	medkit to heal yourself		
amount of points	and record the amount		
	healed (do this 10x)		
Determine the use	After taking less than 3	The displayed player	The displayed player
medkit function is not	damage, go to the	health should never be	health is never above
healing for over max	medbay and heal (do	above 10	10
health	this 10x)		
Determine if the	Add a mining tool to	The screen should	The screen displayed
mining tool defense	your inventory and	display text stating that	text stating that you
item is working	encounter the enemy	you used the mining	used the mining tool
properly	(do this 10x)	tool and no health	and no health was
	,	should be deducted	deducted
Determine if the	Use the xenomorph	The enemy should not	The enemy did not
xenomorph deterrent	deterrent and move for	attack you at all during	attack you at all during
item is protecting the	2 turns, and record	these 2 turns	these 2 turns
player for the correct	whether the enemy		
amount of turns	attacks you (do this		
	10x)		
Determine if the	Attempt to open	Player should not be	Player was not able to
gotAccess data	Tennessee's pod	able to open pod the	open pod the first time,
member is being set	before and after	first time, but should	but was the second
and accessed correctly	obtaining access code	the second time	time
Determine if the	Move to the com room	The objective should	The objective said
contact data member is	and access the com	say "contact hq"	"contact hq" before,
being set and accessed	speaker	before, and " access	and " access
correctly	Speaker	coordinate code" after	coordinate code" after
Determine if the	Move to the nav room	The objective should	The objective said
codeCheck data	and access the nav	say "contact hq" before	"contact hq" before
member is being set	terminal	and "communicate	and "communicate
and accessed correctly	terriniai	coordinate code" after	coordinate code" after
•	Correctly input the	The objective should	The objective said
Determine if the	Correctly input the	•	"communicate
activate data member	coordinate code to the	say "communicate	
is being set and	com speaker in the	coordinate code"	coordinate code"
accessed correctly	com room	before and "survive	before and "survive
		until rescue arrives"	until rescue arrives"
Data and a lifeth at a se	NA-L	after	after
Determine if the turn	Make each item and	A message should	A message displayed
counters after the	try to make that item	display saying you need	saying that you need to
creation of each item is	again immediately	to wait a certain	wait a certain number
working correctly	after	number of turns	of turns
Determine if the losing	Survive to round 25	A message should	A message displayed
game by boredom	without completing the	display stating that you	stating that you died of
functionality is working	first objective	died of boredom and	boredom and the game
		the game should end	ended

Determine if the losing	Encounter the	Message should display	Message displayed
the game by damage	xenomorph enough	stating that you died	stating that you died
functionality is working	times to make hp go to	from wounds and the	from wounds and the
	0	game should end	game ended
Determine if the	Complete all objectives	A message should be	A message displayed
winning the game	and win the game	displayed stating that	stating that you and
functionality is working		you and Tennessee are	Tennessee are rescued
		rescued and you win	and you win the game
		the game and the game	and the game ends
		ends	
Determine if the	Beat the game but do	A message should	A message is displayed
alternate ending is	not unlock Tennessee	display stating that you	stating that you are
working		are rescued but the	rescued but the ship
		ship had to be	had to be abandoned,
		abandoned, you win	you win the game, the
		the game, the game	game ends
		ends	