

Testing Reports

Test Case Working Build Script 1

Test Case #: 1	Test Case Name: Working Build Script	Page: 1 of 1
System: Build		Subsystem: Build Script
Design Date: 2/21/2025		Executed by: 3/6/2025
Designed by: Xavier		Execution by: Xavier
Short Description: Does the build script run successfully?		

Pre Conditions:

- Risk-board-game repo was cloned successfully onto a computer with dotnet 8.0

Step	Action	Expected System Response	Pass/Fail	Comment
1	Run ./build.sh script	"Build succeeded."	P	A simple one-step test
2				
3				

Post Conditions:

- Build Success

Test Case Working Run Script 1

Test Case #: 2	Test Case Name: Working Run Script	Page: 1 of 1
System: Build		Subsystem: Run
Design Date: 2/21/2025		Executed by: 3/6/25
Designed by: Xavier		Execution by: Xavier
Short Description: Does the run script run successfully?		

Pre Conditions:

- Risk-board-game repo was cloned successfully onto a computer with dotnet 8.0
- Build Script was run successfully

Step	Action	Expected System Response	Pass/Fail	Comment
1	Run ./run.sh script	"Welcome to Risk!"	P	A simple one-step test
2				
3				

Post Conditions:

- User is welcomed to the game of Risk.

Test Case Bot Game1

Test Case #: 3	Test Case Name: Bot Game1	Page: 1 of 2
System: Game		Subsystem: Full Bot Game
Design Date: 2/21/2025		Executed by:
Designed by: Xavier		Execution by:
Short Description: User will execute a basic game of all bots and ensure it completes without failure.		

Pre Conditions:

- Game was built and run successfully

Step	Action	Expected System Response	Pass/Fail	Comment
1	Respond to the Player count prompt with "2".	"Enter Player 1's name."	P	
2	Enter player 1 as "a"	"Is player 1 a human (0) or bot (1)?"	P	
3	Enter player 1 as a bot with a 1	"Enter Player 2's name."	P	
4	Enter player 2 as "b"	"Is player 2 a human (0) or bot (1)?"	P	
5	Enter player 2 as a bot with a 1	"Each player will start with 35 armies"	P	
6	Confirm game takes place automatically between 2 bot players	"Players: a b"	F	I got the expected response afterward, but post conditions were not resolved

Post Conditions:

- One of the bots has won the game.
- No exceptions have occurred

Test Case Attack Success 1

Test Case #: 4	Test Case Name: Attack Success 1	Page: 1 of 1
System: Game		Subsystem: Attacking
Design Date: 2/21/2025		Executed by: 3/7/25
Designed by: Dale Morris		Execution by: Xavier B
Short Description: When a player launches an attack on a territory that neighbors one of their own and they have at least one available attacking army, the attack should work.		

Pre Conditions:

- Player owns at least one territory
- Player launches an attack
- Player selects to attack from a territory they own that neighbors the territory they are attacking
- Player has at least one available attacking army in the territory they are attacking from

Step	Action	Expected System Response	Pass/Fail	Comment
1	Initialize new game with 2 players where player 1 is human, owns Iceland, and doesn't own Greeland	Game is created and starts logging	P	
2	Distribute all of player 1's armies to Iceland	Iceland receives all of player 1's distributable armies	P	
3	Launch attack with player 1 from Iceland to Greenland with 3 attacking armies	Attack is fulfilled, and players 1 and 2 lose armies accordingly	F	Tested with a near identical scenario (swapping the regions) "The given key 'Eastern Us' was not present in the dictionary. at System.Collections.Generic.Dictionary`2.get_Item(TKey key)"

Post Conditions:

- Attack is logged
- Players 1 and 2 lose armies according to attack rules
- If player 2 runs out of armies in Greenland, player 1 gains ownership of Greenland

Test Case Attack Failure 1

Test Case #: 5	Test Case Name: Attack Failure 1	Page: 1 of 1
System: Game		Subsystem: Attacking
Design Date: 2/21/2025		Executed by: 3/7/25
Designed by: Dale Morris		Execution by: Xavier B
Short Description: When a player launches an attack from a territory they don't own, the attack should fail.		

Pre Conditions:

- Player launches an attack
- Player selects to attack from a territory they do not own

Step	Action	Expected System Response	Pass/Fail	Comment
1	Initialize new game with 2 players where player 1 is human and doesn't own Iceland	Game is created and starts logging	P	
2	Evenly distribute player 1's armies	Player 1's territories receive an equal number of armies	P	
3	Launch attack with player 1 from Iceland on Greenland with 1 attacking army	Attack does not occur, Iceland and Greenland are unaffected, error is logged	F	I was allowed to attack from a non-owned territory

Post Conditions:

- Attack error is logged
- The armies in Iceland and Greenland are unaffected

Test Case Attack Failure 2

Test Case #: 6	Test Case Name: Attack Failure 2	Page: 1 of 1
System: Game		Subsystem: Attacking
Design Date: 2/21/2025		Executed by: 3/7/25
Designed by: Dale Morris		Execution by: Xavier B
Short Description: When a player attacks a territory they own, the attack should fail		

Pre Conditions:

- Player launches an attack
- Player selects to attack a territory they own

Step	Action	Expected System Response	Pass/Fail	Comment
1	Initialize new game with 2 players where player 1 is human and owns Greenland	Game is created and starts logging	P	
2	Evenly distribute player 1's armies	Player 1's territories receive an equal number of armies	P	
3	Launch attack with player 1 from Iceland to Greenland with 1 attacking armies	Attack does not occur, Iceland and Greenland are unaffected, error is logged	F	Attacking territory didn't properly lose armies

Post Conditions:

- Attack error is logged
- The armies in Iceland and Greenland are unaffected

Test Case Fortify Success 1

Test Case #: 7	Test Case Name: Fortify Success 1	Page: 1 of 1
System: Game		Subsystem: Fortifying
Design Date: 2/21/2025		Executed by: 3/7/25
Designed by: Dale Morris		Execution by: Xavier B
Short Description: When a player fortifies from a territory they own to another territory they own, the fortification should succeed		

Pre Conditions:

- Player launches fortification
- Player selects to fortify from a territory they own
- Player selects to fortify to a territory they own that is connected the territory they are fortifying from

Step	Action	Expected System Response	Pass/Fail	Comment
1	Initialize new game with 2 players where player 1 is human and owns Iceland and Greenland	Game is created and starts logging	P	
2	Distribute all of player 1's armies to Iceland	Iceland receives all of player 1's distributable armies	P	
3	Opt not to attack with player 1	Player is prompted to fortify	P	
4	Launch a fortification with player 1 from Iceland to Greenland with 3 armies	Greenland loses 3 armies and Iceland gains 3 armies	P	Fortification worked, although I don't think its supposed to let you fortify with 1 army

Post Conditions:

- Fortification is logged
- Iceland loses 3 armies and Greenland gains 3 armies

Test Case Fortify Failure 1

Test Case #: 8	Test Case Name: Fortify Failure 1	Page: 1 of 1
System: Game		Subsystem: Fortifying
Design Date: 2/21/2025		Executed by: 3/7/25
Designed by: Dale Morris		Execution by: Xavier B
Short Description: When a player fortifies to a territory they do not own, the fortification should fail		

Pre Conditions:

- Player launches fortification
- Player selects to fortify to a territory they do not own

Step	Action	Expected System Response	Pass/Fail	Comment
1	Initialize new game with 2 players where player 1 is human and owns Iceland and not Greenland	Game is created and starts logging	P	
2	Evenly distribute all of player 1's armies	Player 1's territories receive an equal number of armies	P	
3	Opt not to attack with player 1	Player is prompted to fortify	P	
4	Launch a fortification with player 1 from Iceland to Greenland with 3 armies	Error is logged	P	Successfully tells players they can't move to the new territory

Post Conditions:

- Fortification error is logged
- Greenland and Iceland are unaffected

Test Case Fortify Failure 2

Test Case #: 9	Test Case Name: Fortify Failure 2	Page: 1 of 1
System: Game		Subsystem: Fortifying
Design Date: 2/21/2025		Executed by: 3/7/25
Designed by: Dale Morris		Execution by: Xavier B
Short Description: When a player fortifies from a territory they do not own, the fortification should fail		

Pre Conditions:

- Player launches fortification
- Player selects to fortify from a territory they do not own

Step	Action	Expected System Response	Pass/Fail	Comment
1	Initialize new game with 2 players where player 1 is human and owns Greenland and not Iceland	Game is created and starts logging	P	
2	Evenly distribute all of player 1's armies	Player 1's territories receive an equal number of armies	P	
3	Opt not to attack with player 1	Player is prompted to fortify	P	
4	Launch a fortification with player 1 from Iceland to Greenland with 3 armies	Error is logged	P	Doesn't allow erroneous fortification and gracefully catches bad entry

Post Conditions:

- Fortification error is logged
- Greenland and Iceland are unaffected

Test Case Valid User

Test Case #: 10	Test Case Name: Authorizing User	Page: 1 of 1
System: Website		Subsystem: Bot Submission Process
Design Date: 2/21/2025	Executed by:	
Designed by: Louis Wiley	Execution by:	
Short Description: When a User		

Pre Conditions:

- User has an account but has not logged in
- Website Ran and built

Step	Action	Expected System Response	Pass/Fail	Comment
1	Go to website	Presented with Home page	F	Pre conditions not met
2	Visit Bot Submission page	Presented with error screen (Not Authorized)		
3	Visit Bot Finder page	Presented with error screen (Not Authorized)		
4	Click log in button	Presented with Login page		
5	Click log into Google account	Redirected to Google Signup		
6	Visit Bot Submission page	Check Post Condition 1		
7	Visit Bot Finder page	Check Post Condition 1		

Post Conditions:

- User can view authorized page

Test Case Valid Bot Data

Test Case #: 11	Test Case Name: Valid Bot Submisson	Page: 1 of 1
System: Website		Subsystem: Bot Submission
Design Date: 2/21/2025	Executed by:	
Designed by: Louis Wiley	Execution by:	
Short Description: Ensure User can not submit invalid bot file of malicious code.		

Pre Conditions:

- User has an account and has signed in
- Website Ran and built

Step	Action	Expected System Response	Pass/Fail	Comment
1	User goes website	Presented with Home page	F	Pre conditions not met
2	User visits Bot Submission page	Presented with Bot Submission Page		
3	User clicks Choose Files Button	User is brought to their OS file system		
4	User submits a file of 3GB or larger	User can't submit file, error displayed on the screen to show file is too big		
5	User submits a file of the incorrect file type.	User can't submit file, error displayed on screen to show file mismatch		
6	User submits a file of the correct type and size	User can submit the file		
7	Click Submit	Check Post Conditions 1		

Post Conditions:

- User has submitted a valid bot in the database

Test Case Website Build

Test Case #: 12	Test Case Name: Website Build	Page: 1 of 1
System: Website		Subsystem: Bot Submission
Design Date: 3/7/2025		Executed by: 3/7/25
Designed by: Xavier Beatrice		Execution by: Xavier Beatrice
Short Description: Does the build script run successfully?		

Pre Conditions:

- RISK-WEBSITE repo was cloned successfully onto a computer with dotnet 8.0

Step	Action	Expected System Response	Pass/Fail	Comment
1	Run ./build.sh script	"Build succeeded."	F	A simple one-step test, doesn't run on .NET 8.0

Post Conditions:

- Build Success

Test Case Website Build

Test Case #: 13	Test Case Name: Website Build	Page: 1 of 1
System: Website		Subsystem: Bot Submission
Design Date: 3/7/2025		Executed by: 3/7/25
Designed by: Xavier Beatrice		Execution by: Xavier Beatrice
Short Description: Does the run script run successfully?		

Pre Conditions:

- RISK-WEBSITE repo was cloned successfully onto a computer with dotnet 8.0
- Build script was run

Step	Action	Expected System Response	Pass/Fail	Comment
1	Run ./run.sh script	Website is accessible on localhost	F	A simple one-step test, Failure, didn't build correctly

Post Conditions:

- User can access website