TankWars

Test Reports

Version 1.6

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Date: 2013-05-07

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Game test

Test	Expected result	Actual result	Comment
gTest 1: Game map and tank entity	Game prints out the map and	As expected	Tested: week 15
rendered, including walls	entities		Accepted: week 15
gTest 2: Tank moving and shooting	Move with arrow keys and	Movement as expected.	Tested: week 15
correctly	shoot with space. Projectile	Projectile spawns at the same	Resolved: week 16
	spawns in front of tank	place relative tank.	Accepted: week 16
gTest 3: Tank and bullet colliding	Bullets hit an entity and	Bullets hit an entity but doesn't	Tested: week 16
with other entities properly	disappear.	disappear	Resolved: week 17
			Accepted: week 17
gTest 4: Health and powerup	Not implemented	Not implemented	
implemented			
gTest 5: Game rules fully	gTest 1-gTest 3.	A expected	Tested: week 17
implemented	When a tank looses all it's HP		Accepted: week 17
	it disappears from the game		Approved: week 18
gTest 6: Game map rendered from	Load a tmx file without errors	As expected	Test: week 15
generic TMX file			Accepted: weed 15

Server/Client test

Test	Expected result	Actual result	Comment
scTest 1: Client and Server classes	Create a client and a server	As expected	Tested: week 16
created through Kryonet	class		Accepted: week 16
scTest 2: Client successfully	Establish a connection	As expected	Tested: week 16
connecting to Server			Accepted: week 16
scTest 3: Many Clients can	Many clients establishes a	Problem with ports, TCP/UDP	Tested: week 16
successfully connect to one Server	connection to one server		Resolved: week 17
			Accepted: week 17
scTest 4: Multiple clients	Same as scTest 5	Same as scTest 5	Same as scTest 5
communicating through Server			
scTest 5: Send messages between	One client sends a string	As expected	Tested: week 17
Client and Server	message, one server receives		Accepted: week 17
scTest 6: Send messages between	Many clients sends string	As expected	Tested: week 17
multiple Clients and one Server	messages to one server that	Approved with more stable	Accepted: week 17
	receives	methods	Approved: week 18
scTest 7: Send key input from Client to	Client sends key inputs to one	As expected	Tested: week 17
Server	server that receives and		Accepted: week 17
	register key inputs		
scTest 8: Send key input from multiple	Many clients sends key inputs	As expected	Tested: week 17
Clients to one Server	to one server that receives		Accepted: week 17
	and register the inputs		
scTest 9: Clients receives package	Many clients sends player	openGL error, threading	Tested: week 18
containing player statuses from Server	status (key input, coordinates,	problem, null pointers, client	Resolved: week 18
	rotation, direction) to one	sends package before the	Accepted: week 18
	server that receives and	server is ready, priority order	Approved: week 18
	register the statuses		
		Updated and improved the	
		methods and system	

Implementation test

Test	Expected result	Actual result	Comments
iTest 1: Server running a game locally	Client connects to server	As expected	Tested: week 18
with clients connected to it	locally		Accepted: week 18
iTest 2: Server Host controls	A game host a server and with	As expected	Tested: week 18
implemented	working movement controls		Accepted: week 18
iTest 3: Clients controlling their tanks	A client controlling it's tank	As expected	Tested: week 18
in game	with keyboard arrow keys		Accepted: week 18
iTest 4: Client can see enemy tanks	Combined with iTest 1 and	As expected	Tested: week 18
and update positions as the other	iTest 6		Accepted: week 18
players controls it's tank			
iTest 5: Collision with game objects	Game objects collide with	Approved the distance and	Tested: week 18
	each other when collision	hitboxes	Accepted: week 18
	appears		Approved: week 18
iTest 6: Clients running on different	Different computers can run	Problems with ip, port,	Tested: week 19
computers connected to the same	the game and connect to	TCP/UDP	Resolved: week 19
Server	another computer that is host		Accepted: week 19
iTest 7: Frames per second (fps) rate,	The game frames per second	As expected	Tested: week 19
not lower than 60 fps	rate is not lower than 60 fps		Accepted: week 19
iTest : Game fully implemented with	A totally working game	A lot of problems, such as null	Tested: week 19
network		pointers, network and game to	Resolved: week 19
		sync and work, menu	Accepted: week 19
		transitions that has been	Approved: week 19
		resolved and approved. Too	
		long to specify here.	

Project comments

To code a local game was not a problem and we are very fortunate to have found the Slick 2D library for our game. To create a network with client and server was also quite easy with the Kryonet library. The major problems occurred when it was time to merge these two together, many problems that we couldn't foresee. Now in the end of the project we can state that we have basically coded two separate games, one locally and one with network.