Jason Gasparini Final Erlang

BUGS:

Unfortunately, after using the pickup command the messages that are sent to the client when using the [go] command won't display until the game is over. I cannot figure out the reason for it and have tried multiple reordering and refactoring of code to try and fix it. But this has been to no success. Nevertheless, the game still functions and the win/losing event is functional.

Movement:

Game directionality is non-linear which is the style of the Runescape map in which the locations are inspired by.

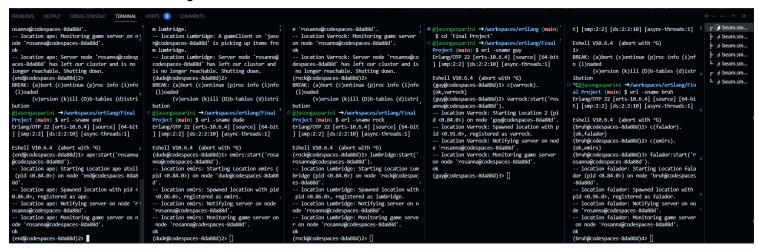
Screenshots:

Server monitoring of location nodes as they are initialized. There are 5 locations, ape (ape Atoll), lumbridge, falador, varrock, and emirs arena:

```
^C@jasongasparini →/workspaces/erSlang/Final Project (main) $ erl -sname rosanna
Erlang/OTP 22 [erts-10.6.4] [source] [64-bit] [smp:2:2] [ds:2:2:10] [async-threads:1]
Eshell V10.6.4 (abort with ^G)
(rosanna@codespaces-8da88d)1> gameServer:start().
-- gameServer: Starting Distributed Adventure Game Server (pid <0.84.0>) on node 'rosanna@codes
paces-8da88d'.
-- gameServer: Spawned game server with pid <0.86.0>, registered as gameServer.
-- gameServer: Received registerNewLocation message from node 'bruh@codespaces-8da88d' for fala
-- gameServer: Putting {falador, 'bruh@codespaces-8da88d'} in the local process dictionary.
-- gameServer: We are now monitoring 'bruh@codespaces-8da88d'.
-- gameServer: Received registerNewLocation message from node 'guy@codespaces-8da88d' for varro
-- gameServer: Putting {varrock, 'guy@codespaces-8da88d'} in the local process dictionary.
-- gameServer: We are now monitoring 'guy@codespaces-8da88d'.
-- gameServer: Received registerNewLocation message from node 'rock@codespaces-8da88d' for lumb
ridge.
-- gameServer: Putting {lumbridge, 'rock@codespaces-8da88d'} in the local process dictionary.
-- gameServer: We are now monitoring 'rock@codespaces-8da88d'.
-- gameServer: Received registerNewLocation message from node 'dude@codespaces-8da88d' for emir
-- gameServer: Putting {emirs, 'dude@codespaces-8da88d'} in the local process dictionary.
-- gameServer: We are now monitoring 'dude@codespaces-8da88d'.
-- gameServer: Received registerNewLocation message from node 'end@codespaces-8da88d' for ape.
-- gameServer: Putting {ape, 'end@codespaces-8da88d'} in the local process dictionary.
-- gameServer: We are now monitoring 'end@codespaces-8da88d'.
-- gameServer: [admin] Enter command or help -]
```

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All 5 locations being initialized in their terminals:



Locations displayed and 1st client started:

```
**Spanning Spaning **Project (main) $ erl -sname jason [Erlany(DP 2] erts-18.6.4] [source] [64-bit] [sap:2:2] [ds:2:2:18] [async-threads:1] [sap:3:2:2] [sap:3:2
```

[pickup] function to retrieve any items from a specified location:

```
-- game client: [play] Enter action or help -] pickup lumbridge
-- game client: [debug] Sending Item request to [lumbridge].
-- game client: ok
-- game client: Client is picking up items. Your old items have been dropped.
ok
-- game client: Received items [[dagger,ale,steak]] from node 'rock@codespaces-8da88d'.
-- game client: [play] Enter action or help -]
```

[inventory] function:

```
-- game client: Received Items [[dagger,ale,steak]] From Houe Fock@codespaces-adabad .
-- game client: [play] Enter action or help -] inventory
-- game client: You are carrying [dagger,ale,steak].
-- game client: [play] Enter action or help -]
```

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[drink] function that sends the user to Ape Atoll to receive the game winning item mysteriousMask

```
-- game client: [play] Enter action or help -] drink
-- game client: ok
-- game client: Client is now on a bender.
-- game client: Received message ["?. Ape Atoll\n...You wake up stranded on an island filled with evil monkeys. Maybe you shouldn't have drank that ale. You see a boat in the distance which could bring you home...\nBefore you leave yo u pickup a strange mask laying by the wayside."] from node 'end@codespaces-8da88d'.
-- game client: Received items [[mysteriousMask]] from node 'end@codespaces-8da88d'.
-- game client: [play] Enter action or help -]
```

Handling for if drink is used with no ale:

```
-- game client: [play] Enter action or help -] drink

You have no ale to drink. Maybe you should go find some...

-- game client: ok

-- game client: [play] Enter action or help -]
```

Game ending [enter] command that allows the user to choose whether or not they want ot enter the arena:

```
-- game client: [play] Enter action or help -] enter
-- game client: emirs
Are you sure you want to enter Emir's inner arena ruins? (Y/N): n
Invalid input. Please enter Y or N.
Are you sure you want to enter Emir's inner arena ruins? (Y/N): N
You decide not to enter the arena. Maybe next time.
```

First client entering the arena WITH the mask:

```
-- game client: [play] Enter action or help -] enter
-- game client: emirs
Are you sure you want to enter Emir's inner arena ruins? (Y/N): Y
You bravely enter the arena wearing the mysterious mask. As you take a step in you see the ghosts of legendary warrio rs rise from the sands. They welcome you as you have finally set them free with the power of the mask. You win...
```

Second client entering the arena with NO mask:

(jason2@codespaces-8da88d)2>

```
Pjasongasparini →/workspaces/erSlang/Final Project (main) $ erl -sname jason2

Erlang/OTP 22 [erts-10.6.4] [source] [64-bit] [smp:2:2] [ds:2:2:10] [async-threads:1]

Eshell V10.6.4 (abort with '6)
(jason2@codespaces-8da88d)1> gameClient:start('rosanna@codespaces-8da88d').

-- game client: Starting Distributed Adventure Game Client (pid (0.84.0>) on node 'jason2@codespaces-8da88d'.

-- game client: Spawned game client with pid (8.86.0>), registered as gameClient.

-- game client: Monitoring game server on node 'rosanna@codespaces-8da88d'.

-- game client: [play] Enter action or help -] enter

-- game client: emirs

Are you sure you want to enter Emir's inner arena ruins? (Y/N): Y

You enter the arena, but you feel as if you should be wearing something. Maybe a mask of some sort? As you turn around to leave, corpses and skeletons wearing armors from different ages rise from the sands and visciously attack you. You D ied...
```