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Summary

Challenges. Understanding the assignment was the hardest part. Once I understood how to start I think I got the picture. Also implementing the data structure to represent the json object was also very challenging.

Major issues.

There are no major issues in my implementation.

Design issues. At first I felt there were many design choices, however when I got to actually designing I realized that I did not have as many options if I wanted to keep my implementation efficient.

Known problems. After I raise Illegal, my code exits.

Specification

We were not asked to produce any specifications for this assignment.

Design and Implementation

Modules. We did not need to break any programming tasks down into modules for this assignment.

Architecture. Because we did not need to define modules, there is no architecture to be described here.

Code design. There were not many code design issues.

Programming. My code was written by me

```
Testing
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**Test plan.**
let tests =
  "max" >:: (fun -> assert equal 11111 (j |> init state |>
  "score" >:: (fun -> assert equal 10001 (j |> init state |>
  "turns" >:: (fun -> assert_equal 0 (j |> init_state |>
turns));
  "room?" >:: (fun -> assert equal "room1" (j |> init state |>
current room id));
  "inventory" >:: (fun -> assert equal ["white hat"] (j |>
init state |> inv));
  init state |> visited));
  "locations" >:: (fun -> assert equal [("black hat",
"room1"); ("red hat", "room1")] (j |> init state |> locations));
let state tests =
let roomslist = j |> member "rooms" |> to list in
let allrooms = buildrooms roomslist [] in
let roomtree = make roomtree allrooms Empty in
let itemslist = j |> member "items" |> to list in
let allitems = builditems itemslist [] in
let itemtree = make itemtree allitems Empty in
let initialstate = {inventory = ["white hat"]; room = "room1";
                       points = 10001; turns =0; max score=
11111; visited = ["room1"];
                        locations = [("black hat",
"room1");("red hat", "room1")];
                       roomtree = roomtree;
                        itemtree = itemtree;
                        } in
  "initial state" >:: (fun -> assert equal initialstate
(init state j));
```

]

Test results. My code passed all of our test cases. For brevity of this example document, these test cases are omitted here.

this example document, these test cases are omitted here. However, note that most of my testing was done through play testing

Known problems

My code exits after I raise Illegal

Comments
