Code Visualization

Milestone 5

Progress Matrix

Task	Completion %	Curtice	Joshua	Catherine
1. JSON Parser Overhaul	100%	100%	0%	0%
2. Frontend Integration / Arrays	100%	0%	100%	0%
3. Evaluation	100%	0%	0%	100%
4. Showcase Poster	100%	100%	0%	0%
5. Ebook page	100%	100%	0%	0%

1. JSON Parser Overhaul

Curtice Gough

Completely rewritten trace.py

Parser allows for arrays and primitives

dev (#19) + parser (#19)

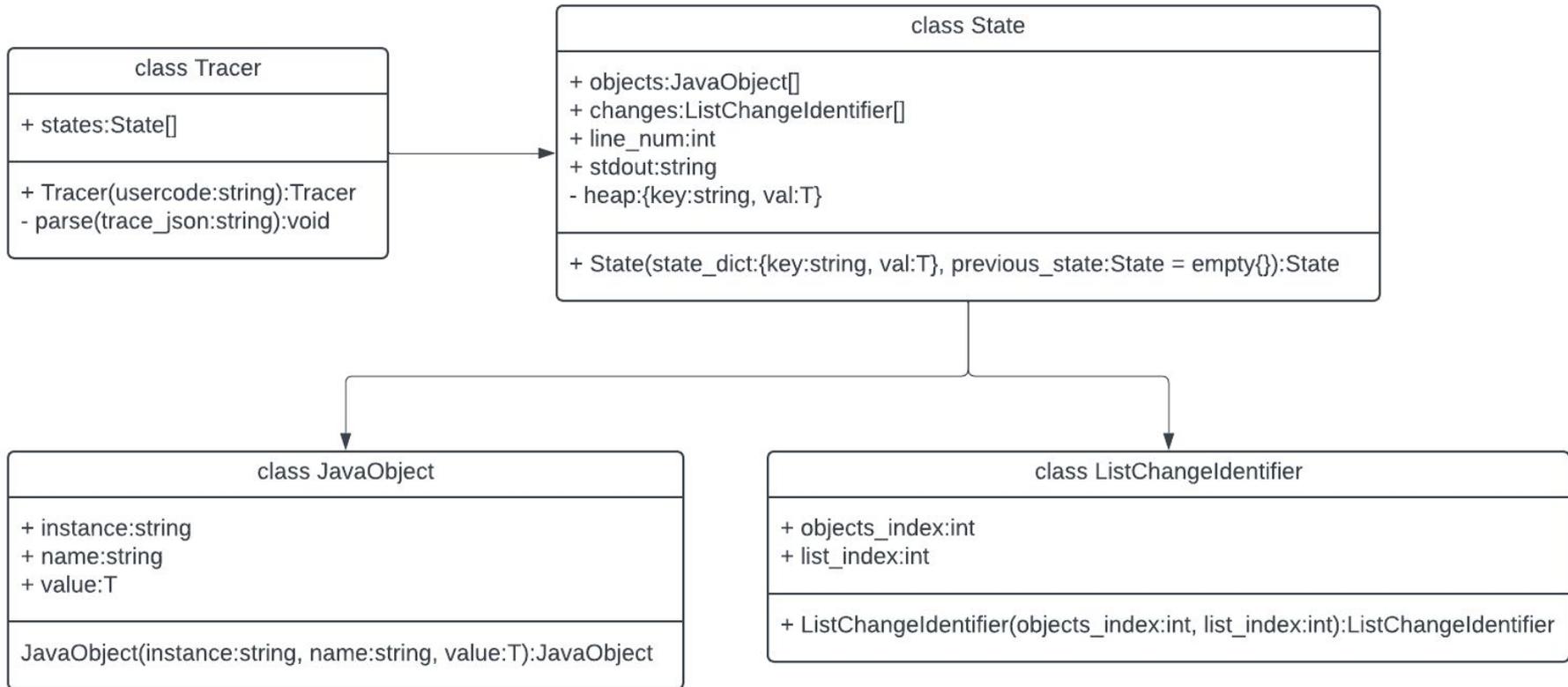Curtico committed 2 weeks ago

1 parent 2a116ea   commit eb659d2

Showing **1 changed file** with **97 additions** and **111 deletions**.

Whitespace   Ignore whitespace   Split   Unified

Browse files

class Tracer

+ states:State[]

+ Tracer(usercode:string):Tracer
- parse(trace_json:string):void

class State

+ objects:JavaObject[]
+ changes:ListChangeIdentifier[]
+ line_num:int
+ stdout:string
- heap:{key:string, val:T}

+ State(state_dict:{key:string, val:T}, previous_state:State = empty{}):State

class JavaObject

+ instance:string
+ name:string
+ value:T

JavaObject(instance:string, name:string, value:T):JavaObject

class ListChangeIdentifier

+ objects_index:int
+ list_index:int

+ ListChangeIdentifier(objects_index:int, list_index:int):ListChangeIdentifier

Parser demo

2. Frontend integration / arrays

Joshua Hartzfeld

Future Updates

- Implement difference detector
- Add line tracker
- Make the GUI look better

Arrays Demo

3. Evaluation

Catherine DiResta

Evaluation

- trace.py
    - Gives all information that is needed to visualize
    - Provides information in a timely manner
    - Each part of the trace clearly shows what is happening in the test programs
- GUI
    - Base functionality works, i.e, window resizing, buttons and scroll bars
    - Opens quickly when the program begins

To Do

- Continue testing any and all changes to the program to ensure it works as intended.

Milestone 6

Task Matrix

Task	Curtice	Josh	Catherine
1. Add LinkedList functionality to parser	100%	0%	0%
2. Add LinkedList functionality to GUI	0%	100%	0%
3. Create user/developer manual	100%	0%	0%
4. Create demo video	0%	0%	100%

Thank You