

Final Project

March 12, 2020

1 TODO Finish Project [66%]

1.1 DONE create google form for member strengths

1.2 DONE Write Requirements

- Input
 - Multiple Types
 - * User inputs two names (wikipages)
 - * ~ user inputs one name (wiki page)
- Processing
 - Convert string to related node id
 - Find the paths such that all possible paths are $\leq |\text{path}|$
- Interaction
 1. Take user input
 2. Say if we found a link or not
 - If found a link keep going, else terminate
 3. Ask user for a guess about the path length
 - The number of guesses is yet to be decided
 - Allow user to skip guessing
 4. Show the output.
- Output
 1. The length

2. The actual path

- Should be sorted using lexicographical to sort the paths
 - * Least obvious
 - Least category change
- A module to wrap around the SQLite module provided by Java

3. Interface

- Responsible for input and output
- State of interaction process
 - * Input step, etc.

4. Traversal Module

- Responsible for finding the shortest path between two nodes

• ADT

- Path
 - * Stores the solutions sequences
- Node
 - * node number
 - * set of neighbouring nodes numbers, not ADT

1.2.1 **DONE** Split req into functional and non-functional bullet points

1.3 **TODO** Implement program [37%]

1.3.1 **DONE** Assign implementation

1.3.2 **DONE** Distribute modules work

1.3.3 **DONE** Write assignment

1.3.4 **ASSIGN** General Project Management [60%]

- State "ASSIGN" from "TODO" *[2020-03-10 Tue 20:54]*
Omar Alkersh

1. **DONE** Write .gitignore

2. **DONE** Remove any extra files from repo

3. **DONE** Write makefile
4. **TODO** Look into CI in gitlab [0%]
 - (a) **TODO** Create a runner
 - (b) **TODO** Create a .gitlab-ci.yml

1.3.5 **ASSIGN Algorithm Implementation [0%]**

- State "ASSIGN" from "TODO" *[2020-03-10 Tue 20:55]*
Nihal Azavedo
 - Can be a class with just abstract methods, with no constructor. It can be private.
 - Let me know if you want to add some tasks
1. **TODO** Decide on implementation
 - maybe write some pseudo code?..

1.3.6 **ASSIGN SQLite Driver**

- State "ASSIGN" from "TODO" *[2020-03-10 Tue 20:56]*
Mike Tee
- Needs to be a singleton

1.3.7 **ASSIGN ADTs [0%]**

- State "ASSIGN" from "ASSIGN" *[2020-03-10 Tue 20:56]*
Jingze Dai "David"
1. **TODO** Implement NodeT
 2. **TODO** Implement PathT

1.3.8 **ASSIGN CLI Implementation**

- State "ASSIGN" from "TODO" *[2020-03-10 Tue 20:57]*
Harshveer Gaba
- Needs to be a singleton