

Final Project

March 27, 2020

TODO Finish Project [66%]

DONE create google form for member strengths

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

DONE Split req into functional and non-functional bullet points

TODO Implement program [90%]

DONE Assign implementation

DONE Distribute modules work

DONE Write assignment

DONE General Project Management [100%]

- State "ASSIGN" from "TODO" *[2020-03-10 Tue 20:54]*
Omar Alkersh
- **DONE** Write .gitignore
- **DONE** Remove any extra files from repo
- **DONE** Write makefile
- **DONE** Add a doxyegn config file
- **CANCELLED** Look into CI in gitlab [0%]

ARCHIVE

DONE Graphing algorithm [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
- **TODO** Decide on implementation
 - maybe write some pseudo code?..

DONE Search algorithm

- State "ASSIGN" from "TODO" *[2020-03-18 Wed 00:12]*
Omar Alkersh

DONE Sort Algorithm

- State "ASSIGN" from "TODO" *[2020-03-18 Wed 00:13]*
Omar Alkersh

DONE SQLite Driver

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

DONE ADTs [100%]

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

ASSIGN UI Implementation

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

Member roles

| Name | Role |
|----------------------|--|
| Harshveer Singh Gaba | UI Designer |
| Jingze Dai | ADTs |
| Mike Tee | SQL Interface |
| Nihal Azavedo | Graphing algorithm |
| Omar Alkresh | Project Management, and search and sort algorithms |

Meetings

Discussing the interface

- <2020-03-18 Wed 22:06>
- Discussing the different "screens" provided by the UI for the user to input the data.