Final Project

March 24, 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 <= |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 [80%]

1.3.1 DONE Assign implementation

1.3.2 DONE Distribute modules work

1.3.3 DONE Write assignment

1.3.4 DONE General Project Management [100%]

- 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. **DONE** Add a doxyegn config file
5. **CANCELLED** Look into CI in gitlab [0%] ARCHIVE

1.3.5 ASSIGN 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

1. **TODO** Decide on implementation
   - maybe write some pseudo code?..

1.3.6 DONE Search algorithm

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

1.3.7 DONE Sort Algorithm

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

1.3.8 DONE SQLite Driver

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

1.3.9 DONE ADTs [100%]

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

1. **DONE** Implement NodeT
2. **DONE** Implement PathT

1.3.10 ASSIGN UI Implementation

- State "ASSIGN" from "TODO" *[2020-03-10 Tue 20:57]*
  Harshveer Gaba

- Needs to be a singleton

2 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

3 Meetings

3.1 Discussing the interface

- *<2020-03-18 Wed 22:06>*

- Discussing the different "screens" provided by the UI for the user to input the data.