Final Project

April 11, 2020

TODO Finish Project [74%]

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 <= |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 [76%]

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 [100%]

- 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
- **DONE** 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

DONE UI Implementation

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

ASSIGN Tests

- State "ASSIGN" from "TODO" *[2020-04-11 Sat 19:39]*
  Omar Alkesh
- **DONE** NodeT
- **DONE** PathT
- **TODO** Algorithms
  - **TODO** Sort
- **TODO** SQLHandler

ASSIGN Project report

- State "ASSIGN" from "TODO" *[2020-04-11 Sat 19:38]*
  Mike and Omar. And anyone else who wants to help.

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.