

# Final Project

March 17, 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 [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. **CANCELLED** Look into CI in gitlab [0%] ARCHIVE

### 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

## 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