

# Final Project

February 25, 2020

## 1 TODO Finish Project [0%]

### 1.1 TODO create google form for member strengths

### 1.2 TODO 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
  - Allow user to search the paths for a page/string in page name
  - Using the names of the wiki pages
    - \* Retrieved using the node numbers and the SQL Database
- Consider something to do with categories

### 1.3 TODO Write Spec

- Modules
  - SQLite module
    - \* A module to wrap around the SQLite module provided by Java
  - Interface
    - \* Responsible for input and output
    - \* State of interaction process
      - Input step, etc.
  - 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

### 1.4 TODO Distribute modules work

### 1.5 TODO Implement program