TEAM I AM NOT OK WITH THIS

PRESENTS

"☐ISOEIS"

(☐ISOEIS Is Searching the Online Encyclopedia of Integer Sequences)

INITIAL DESIGN DOCUMENT

Ivan Galakhov (PM), Moody Rahman, Jude Rizzo
SoftDev pd9
P04 -- Let the Data Speak
2020-04-26

PROJECT DESCRIPTION

Project Description goes here

TEAM ROLES

Ivan Galakhov
  ● Project Manager

Moody Rahman
  ● D3 and backend

Jude Rizzo
  ● Front End Development with HTML and CSS

COMPONENT MAP

From what we have designed so far, this project has two basic components described below. If we end up using more components, we will end up converting this into a diagram.
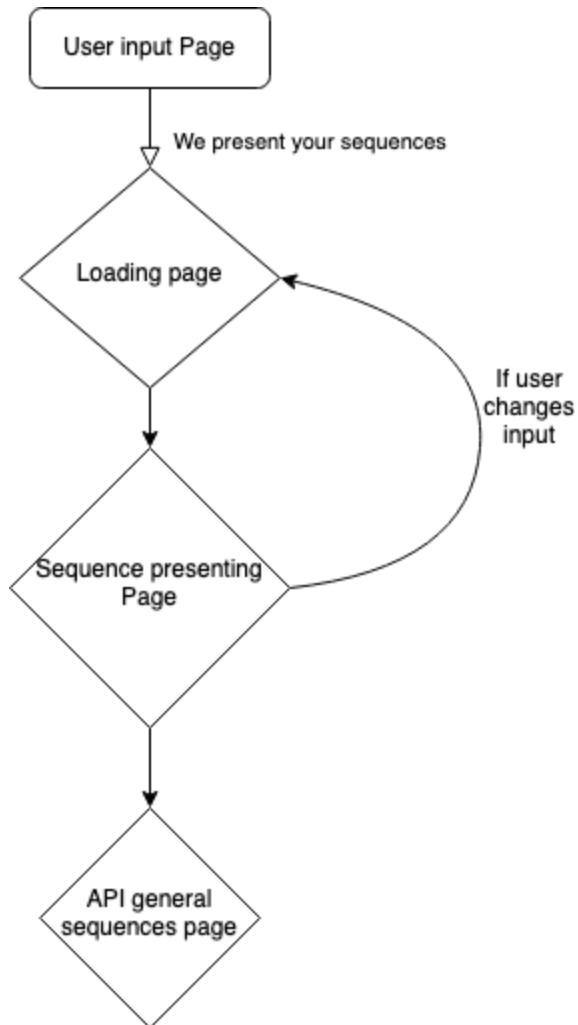
Backend

Use PyOEIS to gather information on integer sequences according to user input (https://pyoeis.readthedocs.io/en/latest/api.html#oeisclient-objects)

The sequences can then be parsed and trimmed in order to create a directed acyclic graph

<u>Frontend</u>

SITE MAP

We will prompt users to input a sequence of n-integers, which will be fed into PyOeis to gather all the relevant sequences the input relates to. The information will be displayed as follows:

Display the user input in the middle Draw nodes of preceding elements of sequences before the user input nodes (to now be referred to as the "root") and draw nodes of succeeding emojis after the root. Then draw colored lines through the preceding and succeeding nodes that each represent their own sequence.
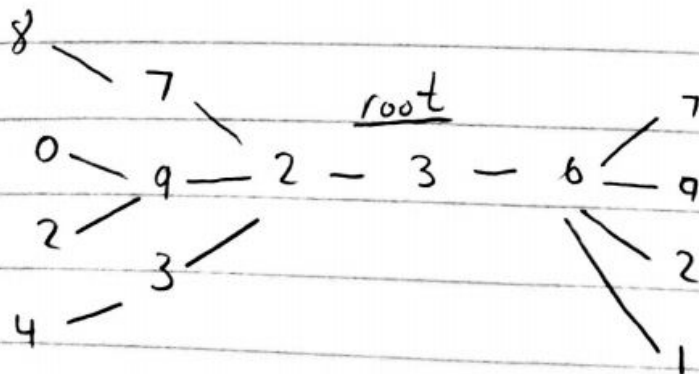
User input: 2 3 6

matching sequences: 8   7   2   3   6   7
                     0   9   2   3   6   9
                     2   9   2   3   6   2
                     4   3   2   3   6   1

He Data display

Sequence 2
Formula

Sequence 1
Formula

Sequence 3
Formula

Sequence 3
Formula

Sequence 2
Formula

Sequence 1
Formula

hover over node

editable
goes back to
loading page
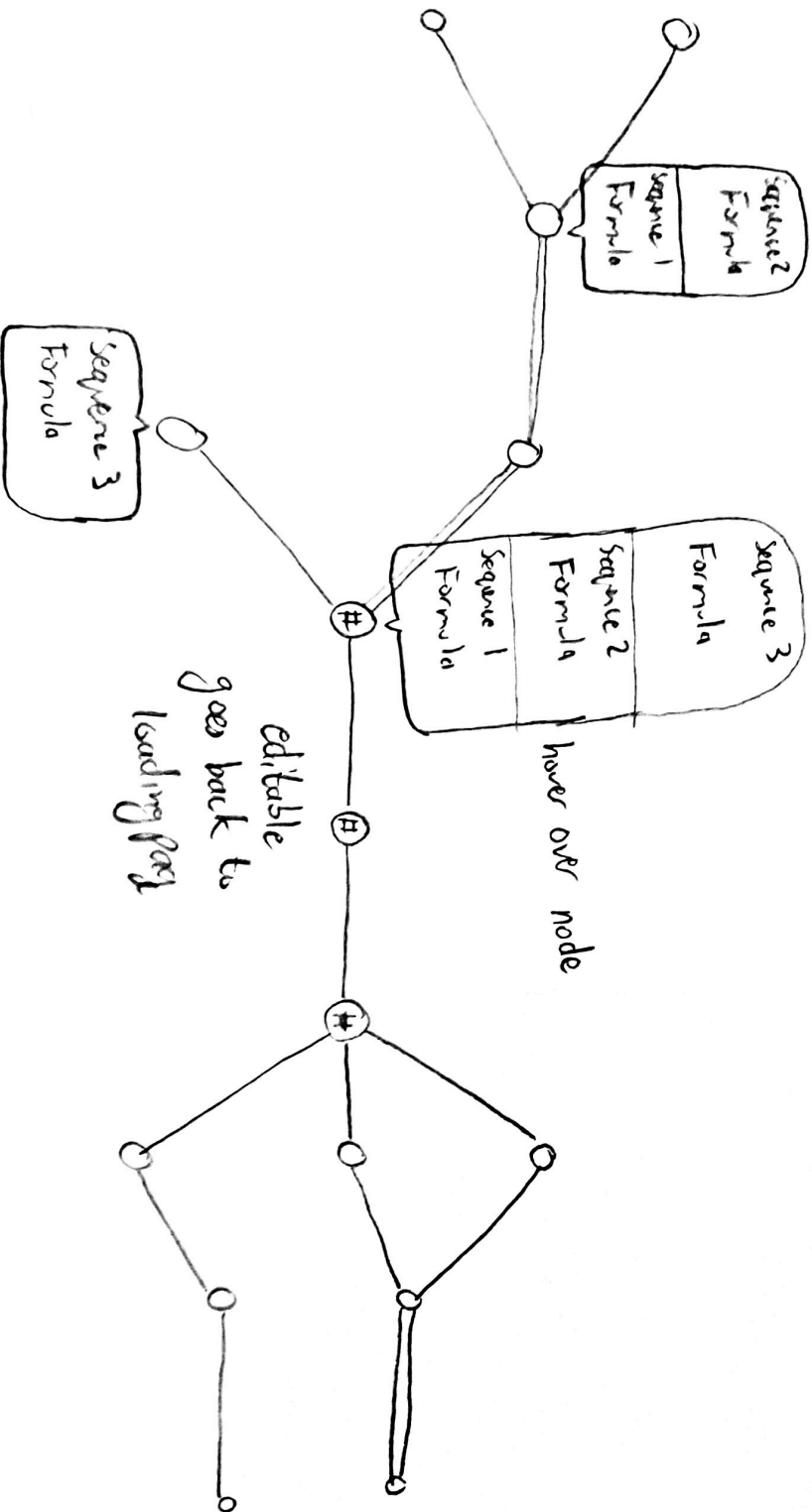
Title fades up and out
nodes fade away into a single line

user inputs stay

excess nodes\ fade out
from home

nodes travel up and down
sinusoidally

every thing fades out
but inputs stay
new data nodes fade in

SLEDS

Green

Yellow

Yellow

Green

Yellow

Green

Yellow

Green

Blue

Red

Blue

Red

Blue

Red

orange

Black white nodes
Black outline

Blinking cursor
indicates use input

Red, Blue, Green

Green

Blue

Blue

Green

Red

Blue

Red

each node
gently floats