Markov Chain Algorithm Project

Animal Logic

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# Requirement

## Backend

Implement a Java application to allow a user to transform the contents of a text file using a Markov chain algorithm. The application should allow the selection of a source text file, and input parameters for the algorithm (typically prefix/suffix parameters).

## Frontend

Also, please design a simple Web UI that could be used for this application. This doesn’t need to be integrated with the Java code and could be sent to us as HTML, or just an image, or Photoshop file.

# Project management

## Plan

## Milestone

https://github.com/FonyLi/tonyli/tree/master/AL/MarkovChain

### Complete first runnable version(10:30 19 Nov 2014)

https://github.com/FonyLi/tonyli/commit/b62102eade335baddea16633e44d55dffbc17f36

This version satisfies backend requirement, with a simple html.

Next step:

Add more comments in detail

Implement html more beautiful

* + 1. Modify the simple html page
    2. integrate

# Design

## System Design

Simple html page + java servlet server

Markov Chain Algorithm

<http://books.google.com/books?id=to6M9_dbjosC&pg=PA61&source=gbs_toc_r&cad=4#v=onepage&q&f=false>

## UI Design

You will become a famous POET!

How? Two ways:

You can

Either: select you poem teacher:\_\_\_\_(

options:

William Shakespeare,

Aleksandr Pushkin

Rabindranath Tagore

Walt Whitman

Or: upload a txt file of your poem words set. (button, select a file and upload, not too big)

(system will return a id to use)

OK, input the beginning \_\_\_\_and the end\_\_\_ of your poem

(button: write a new poem)

Here is your masterpiece. Well done! You are a famous poet now!

# Reference

## Markov Chain

http://books.google.com/books?id=to6M9\_dbjosC&pg=PA61&source=gbs\_toc\_r&cad=4#v=onepage&q&f=false

## Poems

List resources of all the sample txts

* + 1. William Shakespeare

<http://shakespeare.mit.edu/>

<http://shakespeare.mit.edu/romeo_juliet/romeo_juliet.1.1.html>

* + 1. Aleksandr Pushkin

## UI design