Ranking Based Question Answering System

Agenda

- Introduction
- Related Work
- Proposed Technique and Algorithm
- Implementation
- Future Goals

Introduction

Question Answering system is an automated computer system that answers queries questioned by humans in natural language.

Related Work

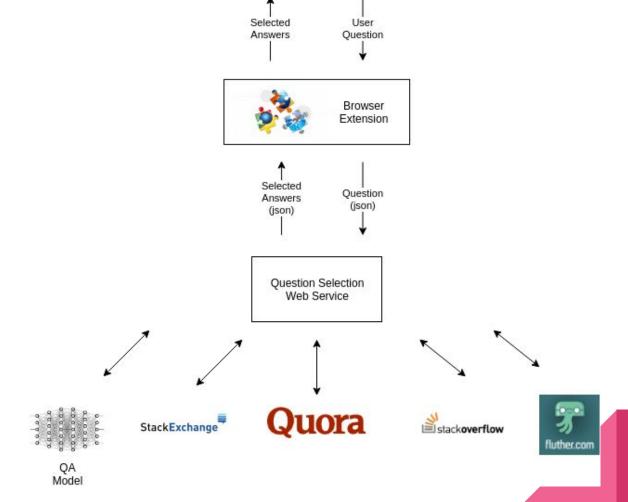
Many user based question answering systems available on the web:

- Quora
- Stack Overflow
- Stack Exchange
- Yahoo Answers
- Flutter

Proposed Technique

The architecture of the system comprises of 3 modules:

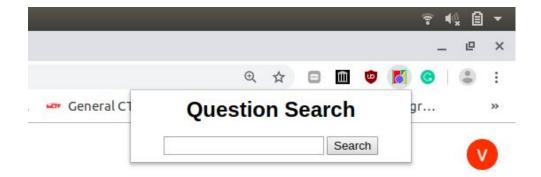
- 1. Chrome/Firefox Extension
- 2. Question Selection Web Service
- 3. Question Answering System

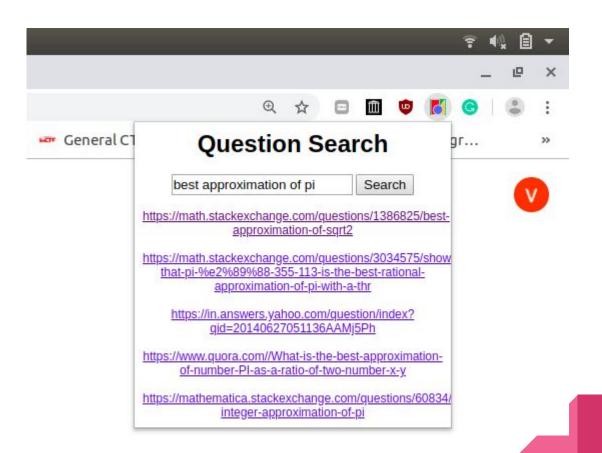


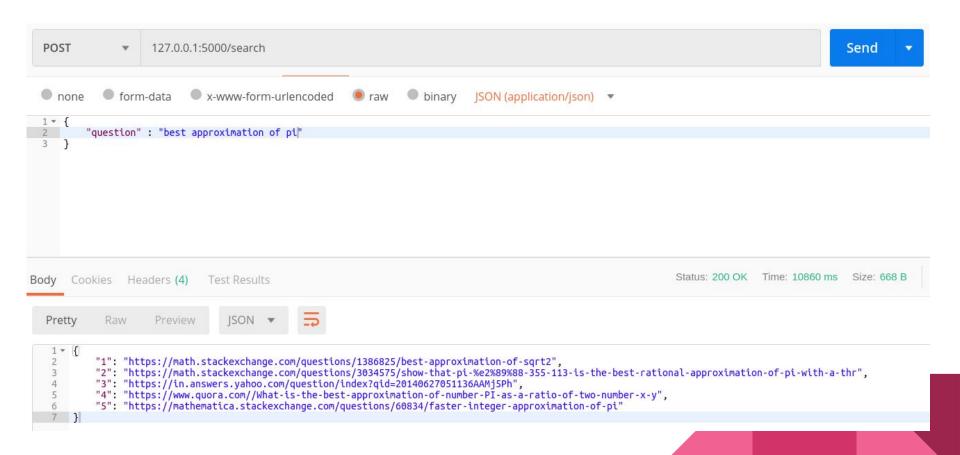
Implementation Details

- 1. Tokenization
- 2. Stop words removal
- 3. Lemmatizing with NLTK
- 4. Measuring the Cosine Similarity

Implementation







Work Update

- 1. Developed Chrome Web Extension
- 2. Developed Question Selection Web Service
- 3. Selected most relevant Questions from QA systems using the developed web service.
- 4. Question similarity matching using cosine similarity

Future Goals

- 1. Deploying and Integrating Context based QA model with the above developed system
- 2. Applying Classification techniques to find the domain of the asked question
- 3. Applying deep learning techniques such as Siamese Manhattan LSTM for similarity matching of questions

THANK YOU

- Vishal Mittal (2017A7PS0080P)
- Kamaldeep Verma (2018H1120281P)