The QA Network

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A prototype for a distributed Question and Answer based network.

Installation Instructions

This project is written in the Ruby programming language, please follow the following steps to install ruby.

Note: We're assuming a linux/macOS based machine for running this project

Installing Ruby

Install RVM

```
$ gpg --keyserver hkp://keys.gnupg.net --recv-keys 409B6B1
796C275462A1703113804BB82D39DC0E3
```

```
curl -sSL https://get.rvm.io | bash -s stable
```

source ~/.rvm/scripts/rvm

```
rvm requirements
```

Install ruby 2.5.1 using RVM

```
rvm install ruby 2.5.1
rvm use 2.5.1 --default
```

Installing Redis

We recommend using the following instructions for setting up redis:

https://www.digitalocean.com/community/tutorials/how-to-install-and-use-redis

Project Setup

After installing Ruby, we will now setup the application itself.

cd into the project directory and then run:

```
gem install bundler
gem install foreman
bundle install
```

The above command will install all the necessary libraries required for this project.

Once installation is complete, you can now run this project using

following command:

Run the service discovery module:

bundle exec ruby service discovery/app.rb

After the above command starts the service discovery server on port 4567

Note: It is imperative that we start the service discovery before running any other service.

Then run this command:

foreman start

This will start the following processes:

- 1. A load balancer app on port 9292
- 2. A question service app on port 3003
- 3. An answer service app on port 3002
- 4. A blockchain viewer app on port 3005
- 5. A client app on port 3000

Note: For the demo we will be setting up these on separate machines, but by using foreman you can quickly set up on one machine.

To add questions:

Visit http://localhost:3000 where you can see a create question link, click it and then fill the form to create a question.

To add an answer to a question:

Click on the 'View Answers' link which will direct you to the answers page where you can create a new answer

Please email spagnis1@umbc.edu in case you have any difficulty in installing. Thank you!