

Overall Architecture

The app is built on the nodeJS and Express stack and is deployed on Heroku.

A scan through the package.json in the root folder would give an idea about the overall system.

Setting it up

Install Heroku, nodeJS, Git on the build/deployment machine

Pull the repository from <https://github.com/harsimranmaan/RTC.git> or the submitted RTC directory contains the git repo which can be used.

Add a git remote to the repository on heroku. Eg: In my case I added,

```
git remote add heroku git@heroku.com:thecow.git
```

Use “heroku keys:add” to add the ssh key to connect to the heroku server. A new key would be generated first time.

Now push the repository to heroku using the command

```
git push heroku master
```

It would deploy the app on the heroku server. The Procfile in the root is used to direct heroku to run the application when the deployment succeeds.

If installing on the localhost, install all dependency packages by running the command

```
npm install
```

 in the root directory

Install coffee-script globally by using the command

```
npm install -g coffee-script
```

Running the command `coffee app.coffee` would start the server on localhost

To convert a .coffee file to .js use the command

```
coffee --compile filename
```

The Application

App.coffee is the driver file on the server. It ‘require’ (just like the include in php) other files/libraries required for execution. This file defines the routes and the http request (POST/GET) for which the route is supported. It also contains configuration to server static content like css, js, etc. and also to enable session support.

When a route is requested, the request is intercepted and passed to appropriate handlers.

The files in the routes directory handle these requests.

The views directory has the jade template that are compiled to html and sent to the browser when the / is requested.

The public directory has all the static content. The file cow.js is compiled from cow.coffee.

On the client side,

Jquery is used for all ajax related stuff and handling the DOM in unobtrusive way. All animations are part of the jquery-ui library.

The CSS is written in LESS and compiled into cow.css on runtime.