Assignment :: Pivotal Tracker project 'Applico_Intern_Project'

Script : `Javascript`

Software : `node.js, mysql(DB)`

OS : `Ubuntu 12.04 (Linux 3.2.0-58-generic)`

Author : `Abhishek Agrawal`

Email : `akagrawa@ncsu.edu`

Installation Guide [For Softwares]

1. Install **Node.js** web server using following commands :

```
$ sudo apt-get update
# to install all the dependencies
$ sudo apt-get install git-core curl build-essential openssl libssl-dev
$ git clone https://github.com/joyent/node.git && cd node
$ pwd # to make sure you are in the node directory.
$ ./configure
$ make
$ sudo make install
$ which node # to verify where node is installed
```

2- mysql, pivotaltracker can be installed as follows:

```
$ npm install
```

Note: Please skip the above installation commands, if already installed.

Environment Variables

mysql uses your local mysql DB which is accessed via username and password. You need to create an environment variable for storing the password. User is defaulty taken as `root`, you may change that in the file if needed. Host is assumed to be `localhost`. [For Additional Details, Click here](#). Save the below variable in your **.bashrc** file/

```
export MYSQL_PASSWORD= "YOUR_PASSWORD"
```

After saving the above system variables, run the .bashrc file.

```
$ source .bashrc
```

Execution Commands

1- To run the code, follow the commands below:
[1] Please locate the applico folder

```
$ cd applico
```

[2] Install the packages, using npm command. Saving is not necessary as it is already their in package.json

```
$ npm install
```

[3] Kill the node process, if already running

```
$ ps -ef | grep node
$ kill -9 process-id    #First Number output is process-id
```

[4] For starting the server, **(applico)**

```
$ node index.js
```

Design and Assumptions

1. The pivotal API is accessed using pivotaltracker node.js package
2. Javascript is the language for the code, for node.js and db operations
3. MySQL DB is taken as a DB resource, hence SQL is compatible for MySQL-Server
4. Code is written in two files index.js and lib/mysql.js where all the DB operation functions are written in lib/mysql.js [Please refer the same]
5. DB insert queries are insert or update operations
6. Desired Query is executed at the end and the results can be viewed in the console.

Output Files

[1] **Codes :** applico folder (index.js and lib/mysql.js)
[2] **Contents of Table 1 and Table2** : story.csv and tracker.csv
[3] **Output SQL and table** : executeMyQuery fuction in lib/mysql.js and output.csv for output table

References

[1] http://nodejs.org/documentation/
[2] For pivotal Tracker API : https://www.pivotaltracker.com/help/api#top
[3] For pivotaltracker nodejs : https://www.npmjs.com/package/pivotaltracker
[4] For mysql nodejs : https://github.com/felixge/node-mysql/