Installing Components

Node Js

Node and its package manger npm can be installed by using the built in linux commands:

```
sudo apt-get update
sudo apt-get install npm
```

The "npm" package should include Node Js, if not run:

```
sudo apt-get install nodejs
```

Mongo DB

The easiest way to install Mongo DB is by integrating it into the package management system:

```
sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv
7F0CEB10
echo "deb http://repo.mongodb.org/apt/ubuntu trusty/mongodb-org/
3.0 multiverse" | sudo tee /etc/apt/sources.list.d/mongodborg-
3.0.list
sudo apt-get update
sudo apt-get install -y mongodb-org
```

Afterwards Mongo must be configured before it can be used:

```
sudo mkdir -p /data/db
sudo chown <username> /data/db
```

Bower

Bower is a package manager for web front-end packages. It can be installed with npm. The "nodes-legacy" package creates a symbolic link for bower.

```
sudo npm install -g bower
sudo apt-get install nodejs-legacy
```

Running it

Mongo DB

Since there is not enough space on the virtual machine, Mongo must be run with the "small-files" flag set:

```
mongod --smallfiles --logpath mongo.log
```

Server

The code does not include any Node modules, therefore dependencies have to be installed first:

(inside source folder)

```
npm install
cd ./public
bower install
cd ../
nodes server.js
```

The server is now running and will listen to port 8080.

Usage

API

GET:

/api/events ➜ display all events

/api/events/:id ➜ display particular event

/api/events/tag/:tag ➜ display all events with a particular tag

/api/events/date/:data ➜ display all events on certain date

/api/events/query/:query ➜ display all events with ":query" their name, description or venue

/api/import ➜ import dummy data to get started with

/api/syncToGoogle ➜ insert all events stored in the database to Google Calendar

/api/syncFromGoogle ➜ insert all events from Google Calendar into database

POST:

/api/events ➜ add event

PUT:

/api/events/:id ➜ update particular event

DELETE:

/api/events/:id ➜ delete particular event

/api/events ➜ delete every event

Web Application

The application is available at http://<ip-address>:8080/static/app.html

Events can be added from the "Add Event" form. Clicking on an event will load all its information into the "Edit Event" form. From there it can be updated or deleted.

Used Libraries

ui-calendar

A complete AngularJS directive for the Arshaw FullCalendar.

https://github.com/angular-ui/ui-calendar

FullCalendar

Full-sized drag & drop event calendar (jQuery plugin).

https://github.com/fullcalendar/fullcalendar