

Calendar APP (Mobile Cloud Computing)

Local Installation guide:

0. Install NodeJS, MongoDB and Python 2.7
1. Download zip archive
2. Extract the archive
3. Open terminal and go inside mccalendar directory
4. Execute “npm install” command
5. Execute “npm start” command
6. Now the calendar is available <http://127.0.0.1:3000/>

To run tests:

0. Install requests library if you don't have it:
“sudo easy_install requests”
1. Open terminal and go inside mccalendar/request_tests directory
2. Execute “python request_tester.py”

Calendar usage:

Note: set Content-Type to application/json when make POST queries

Command	Address	Method	Arguments (example)
Register user	/users	POST	<pre>{ "username": "Roman", "password": "12345", "email": "test@mail.com" }</pre>
Insert calendar	/calendars	POST	<pre>{ "name": "test calendar", "description": "test description", "userID": "5623c25fb998bdfc062d6e59" }</pre>
Get all calendars	/calendars	GET	-
Get calendar by ID	/calendars/:ID	GET	/calendars/5623c25fb998bdfc062d6e59
Edit calendar with ID	/calendars/:ID/edit	PUT	<pre>/calendars/5623c25fb998bdfc062d6e59 ----- Body: { "name": "new name", "description": "new description" }</pre>
Delete calendar with	/calendars/:CalendarID/edit	DELETE	/calendars/5623c25fb998bdfc062d6e59

ID			
Get calendar events	/calendars/:CalendarID/events	GET	/calendars/5623c25fb998bdfc062d6e59/events
Add calendar event	/calendars/:CalendarID/events	POST	{ "title": "Meeting", "description": "boring...", "location": "meeting room", "startTime": "2015-10-18 16:17:10.838467", "endTime": "2015-10-18 18:17:10.838467" }
Get calendar event by ID	/calendars/:CalendarID/events/:eventID	GET	/calendars/5623c25fb998bdfc062d6e59/events/4545df
Edit calendar event by ID	/calendars/:CalendarID/events/:eventID/edit	PUT	/calendars/5623c25fb998bdfc062d6e59/events/4545df/edit Body: { "title": "Meeting", "description": "boring...", "location": "meeting room", "startTime": "2015-10-18 16:17:10.838467", "endTime": "2015-10-18 18:17:10.838467" }

Delete calendar event by ID	/calendars/:CalendarID/events/:eventID/edit	DELETE	/calendars/5623c25fb998bdfc062d6e59/events/4545df/edit
Search event by time	/calendars/:CalendarID/events/time-search	POST	{"begin": "2015-10-18 16:17:10.838467", "end": "2015-10-18 18:17:10.838467"}
Search event by text	/calendars/:CalendarID/events/text-search	POST	{"search": "keyword"}

App Schema:

```
var calendarEventSchema = new mongoose.Schema({
  title: String,
  description: String,
  location: String,
  startTime: Date,
  endTime: Date,
  calendar: {type: mongoose.Schema.Types.ObjectId, ref: 'Calendar'},
});
```

```
var calendarSchema = new mongoose.Schema({
  name: String,
  description: String,
  events: [{type: mongoose.Schema.Types.ObjectId, ref: 'CalendarEvent'}],
  creator: {type: mongoose.Schema.Types.ObjectId, ref: 'User'},
});
```

```
var userSchema = new mongoose.Schema({
  username: String,
  password: String,
  email: String,
  calendar: {type: mongoose.Schema.Types.ObjectId, ref: 'Calendar'},
});
```