

# CODING CHALLENGE

Submission date : 2018.06.04

## GOOGLE CALENDAR API ( OAUTH )

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### Usage module

```
"dependencies": {  
  "ejs": "^2.6.1",  
  "express": "^4.16.3",  
  "express-session": "^1.15.6",  
  "google-auth-library": "^0.10.0",  
  "googleapis": "^16.1.0",  
  "mysql": "^2.15.0"  
}
```

I will tell you about the results I have implemented.

Before I get started, here's what I learned about the google calendar api

```
/*  
 * Google api process study  
 * Resource owner / Resource Server / client  
 * 1. Client regists to Resource Server to use Resource owner's info  
 *    and Resource Server give Client id and secret key value  
 * 2. if Resource owner access to client then show the agreeable screen  
 * 3. if Resource owner agree, Resource owner access to Resource Server automatically  
 * 4. Resource server will show the agreeable screen for the client to use data of owner  
 *    - if login info is not, redirect login screen  
 * 5. Resource server give client code that client agree date browsing  
 * 6. client send code, id, secret values to Resource server  
 * 7. Resource Server check values that received from client  
 * 8. if correct, give client access token  
 * 9. client use access token to get data info  
*/
```

First, I used template engine. A template engine is a module that reads a template and converts the file to HTML format according to the engine's syntax and settings. Express uses a popular jade template engine that is completely different from traditional HTML, whereas EJS use `<%%>` in the same HTML to use data from the server or execute code. That's why I chose the EJS engine.

Second, I used express-session. I saved the token in session. If I don't save the token in session, it would have been gone by next request as every router hit creates the oAuth2Client again.

Third, I used mysql to show schedule list. I stored my schedule list in database in advance to search and confirm by date.

```
module.exports = {  
  host: "localhost",  
  user: "root",  
  password: "",  
  database: ""  
};
```

The above figure shows the database config file. ( config/database.js ) you can input it according to your database environment.

The first screen accesses the address of [localhost:3007/login](http://localhost:3007/login)

## Authentication using google oAuth

[Go authenticating to use Google api](#)



If you click button linked, you will move to next page. If you not logged in, you will be logged in first and then logged in.

## Schedule List

Sequence	StartDate	EndDate	Description
1	Sat May 26 2018 00:00:00 GMT+0900 (KST)	Sat May 26 2018 00:00:00 GMT+0900 (KST)	Won Yong Jang <> Jasper GoodTime Introductory Call
2	Mon Jun 04 2018 00:00:00 GMT+0900 (KST)	Mon Jun 04 2018 00:00:00 GMT+0900 (KST)	Coding challenge due date

match the date format, boundary value will not applied.

Please input values (StartDate,EndDate) ! If input value is empty and input format is not correct, boundary value is not applied

StartDate :

EndDate :

## Output

```
[{"kind": "calendarEvent", "etag": "\"3053125176968000\"", "id": "sampsidbmrcicm8t0bjaq3798", "status": "confirmed", "htmlLink": "https://www.google.com/calendar/event?eid=c2f2ic3BpZjctcmcyOzY2OHhRdG9pYyTMO3TggenN4NTY3NEBi", "created": "2018-05-16T03:48:09.000Z", "updated": "2018-05-17T13:09:48.484Z", "summary": "Wong Yang Jc > Jasper GoodTime Introductory Class", "description": "Itinerary: Wong Yang Jc>RStudio, May 26, 2018 KST<br/>01:30PM - 02:00PM: ca href='\"https://www.linkedin.com/in/jaspereone/a\"'>Jasper Sone/a</CPO> {<br/>c2f2ic3BpZjctcmcyOzY2OHhRdG9pYyTMO3TggenN4NTY3NEBi} I'd love to talk about your interest in the Full Stack Engineer role at GoodTime and answer any questions you might have. Let's meet on the attached Google Hangouts link. If you have technical difficulties, please feel free to email me: jasper@goodtime.io.<br/>c2f2ic3BpZjctcmcyOzY2OHhRdG9pYyTMO3TggenN4NTY3NEBi Here's your event confirmation.<br/>https://a.goodtime.io/m/8mYS13Zvc6CCDFj<br/>c2f2ic3BpZjctcmcyOzY2OHhRdG9pYyTMO3TggenN4NTY3NEBi organizer": "Jasper Sone", "organizer": {"email": "jasper@goodtime.io", "displayName": "Jasper Sone"}, "recipients": [{"email": "etchofr.me_8t6n4aga4v578gfcajbk2drus3@group.calendar.google.com", "displayName": "(P) GoodTime Interviews"}], "start": {"date": "2018-05-26T13:00:00+09:00"}, "end": {"date": "2018-05-26T14:00:00+09:00"}, "visibility": "private", "icalUID": "sampsidbmrcicm8t0bjaq3798@google.com", "sequence": 2, "attendees": [{"email": "zcx5674@gmail.com", "displayName": "\uc75c\uc77c\uac00", "self": true, "responseStatus": "accepted"}, {"email": "etchofr.me_jsn34aq983qofds1lvmnc8btkt@group.calendar.google.com", "displayName": "GoodTime Sync", "responseStatus": "needsAction"}, {"email": "hangouts-link", "htmlLink": "https://hangouts.google.com/hangouts/_etchofr.me_zcx5674?heid=ZXrJAgcVci5tVB84dZUNgdNHYYlnzhznMxmJwazJknUzc0Bncm91cC5jYXlbmRhCi5nb29nbGUyY29t.sampsidbmrcicm8t0bjaq3798", "conferenceData": {"createRequest": {"requestId": "3u1lu2u8H21is7mc4klmsas", "conferenceSolutionKey": {"type": "eventNamedHangout", "status": {"statusCode": "success"}}, "entryPoints": [{"entryPointType": "video", "uri": "https://hangouts.google.com/hangouts/_etchofr.me_zcx5674?heid=ZXrJAgcVci5tVB84dZUNgdNHYYlnzhznMxmJwazJknUzc0Bncm91cC5jYXlbmRhCi5nb29nbGUyY29t.sampsidbmrcicm8t0bjaq3798&label=\"zcx5674\""}, {"key": {"type": "eventNameHangout", "name": "Hangouts", "iconUrl": "https://lh5.googleusercontent.com/proxy/9r72XwMHPrC5W6lic3XF6_QOSVyrJEHOUYOMaOeMoR-qS59K4mQmcd0JncqPBGGComqifKF3svSeFale4K5MewpEcKXP6JBIZ24AKTM780B_CjQKhrrkAO-yf5FYjsiaTBwjUP9cUOIIR-PHC2w\""}, "conferenceId": "zcxc5674", "signature": "Akxmj6ELY3cJKxfVNiharNgVWS3\", \"guestsCanInviteOthers\": false, \"reminders\": {\"useDefault\": true}}, {\"kind\": \"calendarEvent\", \"etag\": \"\\\"3055503293693000\\\"\", \"id\": \"29mm3m3n3o3dpk30845ditackn\", \"status\": \"confirmed\", \"htmlLink\": \"https://www.google.com/calendar/event?eid=Mjltb2Nm24wRmszMDgONWRGR9bhsmgemN4NTY3NEBi\", \"created\": \"2018-05-31T07:27.26.000Z\", \"updated\": \"2018-05-31T07:27.26.832Z\", \"summary\": \"Coding challenge due date\", \"description\": \"coding challenge due date\", \"creator\": {\"email\": \"zcxc5674@gmail.com\", \"displayName\": \"\uc75c\uc77c\uac00\", \"self\": true}, \"organizer\": {\"email\": \"zcxc5674@gmail.com\", \"displayName\": \"\uc75c\uc77c\uac00\", \"self\": true}, \"start\": {\"date\": \"2018-06-04T22:30:00+09:00\"}, \"end\": {\"date\": \"2018-06-04T23:30:00+09:00\"}, \"icalUID\": \"29mm3m3n3o3dpk30845ditackn@google.com\", \"sequence\": 0, \"extendedProperties\": {\"private\": {\"everyoneDeclinedDismissed\": \"-1\"}}, \"reminders\": {\"useDefault\": false}}, {\"kind\": \"calendarEvent\", \"etag\": \"\\\"3055511942479000\\\"\", \"id\": \"6a0fm2v9f4usg7vi0dsjn6afu6\", \"status\": \"confirmed\", \"htmlLink\": \"https://www.google.com/calendar/event?eid=NmEwZWdydlmlNHVZz2daT8K2puNmFdgmYmgN4NTY3NEBi\", \"created\": \"2018-05-31T08:39.31.000Z\", \"updated\": \"2018-05-31T08:39.31.285Z\", \"summary\": \"my birthday\", \"creator\": {\"email\": \"zcxc5674@gmail.com\", \"displayName\": \"\uc75c\uc77c\uac00\", \"self\": true}, \"organizer\": {\"email\": \"zcxc5674@gmail.com\", \"displayName\": \"\uc75c\uc77c\uac00\", \"self\": true}, \"start\": {\"date\": \"2018-06-05T12:30:00+09:00\"}, \"end\": {\"date\": \"2018-06-05T13:30:00+09:00\"}, \"icalUID\": \"6a0fm2v9f4usg7vi0dsjn6afu6@google.com\", \"sequence\": 0, \"extendedProperties\": {\"private\": {\"everyoneDeclinedDismissed\": \"-1\"}}, \"reminders\": {\"useDefault\": false}}]
```

The remaining comments will be annotated in the source code. Thank you!