**Purpose:** Planning and maintaining a checklist of things to do is critical as we need to perform personal, professional and leisure activities in our lives. I felt that such a microservice which will help me manage tasks and sync with my calendar(Google Calendar) will be helpful.

# **Project Overview: Planning Application**

Create a microservice, to manage tasks and connect them to Google calendar.

- 1. Create, view and manage tasks and store them into the user's database.
- 2. Create events in the user's Google calendar referring to tasks from the database.

# Microservices specific to database:

1. Create tasks, view them and mark as done.

# Microservices specific to Google Calendar:

- 1. Retrieve Events from Google Calendar.
- 2. Create events in Google Calendar.

# Technologies used:

Application to use "Google API" using Spring Boot and OAuth2.

- 1. Spring Boot
- 2. Rest API
- 3. Google Calendar API (Maven Dependencies)
- 4. A Google account with Google Calendar enabled

**References**: To register a Google App perform the following steps

https://developers.google.com/calendar/quickstart/java?authuser=1

https://console.developers.google.com

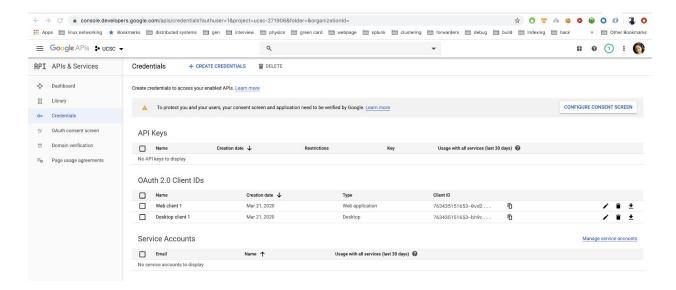
#### Maven Dependencies:

### <version>v1-rev65-1.18.0-rc

</dependency>

Create a project in Google developer console <a href="https://console.developers.google.com">https://console.developers.google.com</a> We need to create one having permission to update or edit Events.

### Credentials for Google API

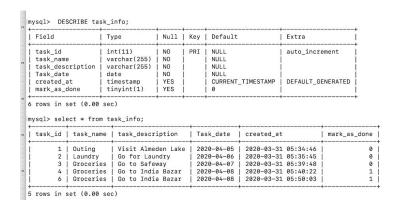


Download the JSON file and put in our project.

#### Database Info:



#### Table Info:

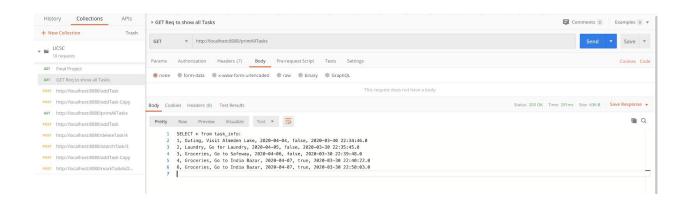


### **Rest APIs:**

### These results are derived through Postman

#### 1. Print All Task

Url: http://localhost:8080/printAllTasks



#### 2. Add Task:

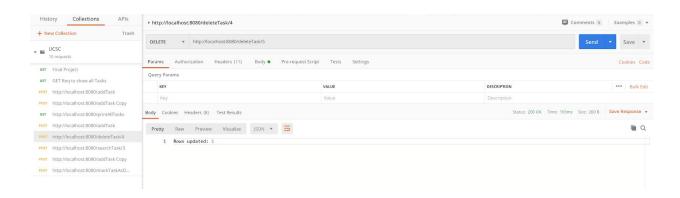
Url: http://localhost:8080/addTask

Raw data:

{"taskName": "Get Medicines", "taskDescription": "Medicines from Walgreen", "date": "2020-02-28"}

# 3. Delete task with specified id:

Url:http://localhost:8080/deleteTask/5



### 4. Mark Task as Done:

Url: http://localhost:8080/markTaskAsDone/3

# 5. Search Task:

Url: http://localhost:8080/searchTask/2

### 6. Create Event in Google Calendar:

Url: http://localhost:8080/createCalenderEvent/3

