API

Log In

- URL http://localhost:3000/api/login
- Method: GET
- Response:

```
{
    "url": "google oAuth url"
}
```

Log Out

- URL http://localhost:3000/api/logout
- Method: GET
- Headers: Authorization: <token>
- Response:

```
{
    "message": "logged out"
}
```

Get Token

- URL http://localhost:3000/api/token?code=<code_from_login_url>
- Method: GET
- Response:

```
{
    "access_token": "token",
    "expires_in": 3600,
    "id_token": "token id",
    "refresh_token": "refresh token id",
    "token_type": "Bearer"
}
```

Get User Info

- URL http://localhost:3000/api/user/info
- Method: GET
- Response:

```
{
    "email": "user email",
    "email_verified": true,
    "family_name": "user family name",
    "given_name": "name given name",
    "locale": "user locale",
    "name": "user name",
    "picture": "user picture url",
    "profile": "user profile url",
    "sub": "user sub id"
}
```

Get Calendars

- URL http://localhost:3000/api/calendars

- Method: GET
- Headers: Authorization: <token>
- Response:

```json
[
  {
    "id": "calendar id",
    "accessRole": "calendar access, i.e., owner, reader, or writer",
    "summary": "calendar name",
    "timeZone": "calendar time zone"
  },
  ...
]
```

Get Calendar Events

- URL http://localhost:3000/api/calendars/<calendar_id>/events
- Method: GET
- Headers: Authorization: <token>
- Response:

```json
[
  {
    "id": "event id",
    "start": {
      "dateTime": "event start date time"
    },
    "end": {
      "dateTime": "event end date time"
    },
    "extendedProperties": {
      "private": {
        "budget": "event budget",
        "keyword": "event keyword"
      }
    },
    "summary": "event name",
  },
  ...
]
```

Add Budget/Keyword to Event

- URL http://localhost:3000/api/calendars/<calendar_id>/events/<event_id>/properties
- Method: PATCH
- Headers: Content-Type: application/json, Authorization: <token>
- Body:

```json
{
  "budget": 10,
  "keyword": "study"
}
```

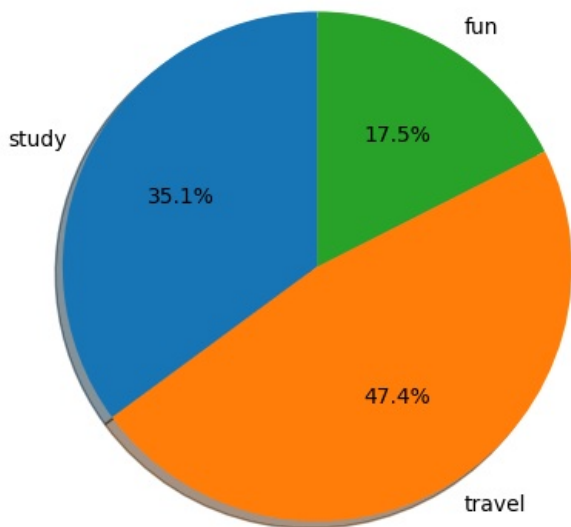- Response:

```json
  {
    "id": "event id",
    "start": {
      "dateTime": "event start date time"
    },
    "end": {
      "dateTime": "event end date time"
    },
    "extendedProperties": {
      "private": {
        "budget": 10,
        "keyword": "study"
      }
    },
  },
```

```
    "summary": "event name",
  },
```

- Note: In request body, it is not required to provide both `budget` and `keyword` properties. Only the one that is provided, will be updated/added.

Get Statistics (Time Spent on Events)
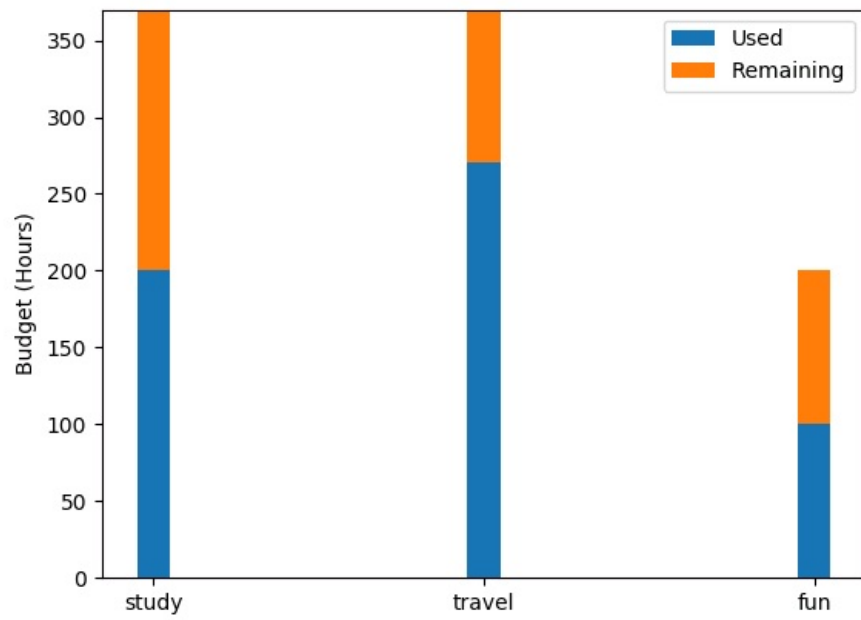
- URL http://localhost:3000/api/calendars/<calendar_id>/events/statistics/time-spent?timeMin=<min_date_time>&timeMax=<max_date_time>
- Method: GET
- Headers: Authorization: <token>
- Response:

- Note: If `timeMin` and `timeMax` is not provided, the picture will show the statistics of all the events present in the given calendar. The time must be provided in this format: YYYY-MM-DDTHH:MM:SS.ZONE

Get Statistics (Used and Remaining Budget)

- URL http://localhost:3000/api/calendars/<calendar_id>/events/statistics/used-remaining-budget?timeNow=<date_time_now>
- Method: GET
- Headers: Authorization: <token>
- Response:

- Note: $timeNow$ should provide the current time of user. It must be provided in this format: YYYY-MM-DDTHH:MM:SS.ZONE