

EVENT API

Create event

- Method: POST
- Endpoint: /api/events/
- Request Body:

```
{
  "title": "<string, required>",
  "recurrence": "<string, required>",    // e.g., "WEEKLY" or "NONE"
  "start_time_frame": "<YYYY-MM-DD>", // start of recurrence period
  "end_time_frame": "<YYYY-MM-DD>",   // end of recurrence period

  "timespan": [
    {
      "day_of_week": "<string, required>", // use 3-letter day, e.g., "MON", "TUE"
      "start_time": "<HH:MM, required>", // 24-hour time
      "end_time": "<HH:MM, required>"
    }
    // add more timespans as needed
  ],
  "category": [<int>, ...]           // optional; list of category IDs to tag event
}
```

- Success Response:

```
{
  "id": 1,
  "title": "CS Lecture",
  "recurrence": "WEEKLY",
  "start_time_frame": "2025-09-01",
  "end_time_frame": "2025-12-15",
  "timespan": [
    {
      "day_of_week": "MON",
      "start_time": "10:00",
      "end_time": "11:15"
    },
    {
      "day_of_week": "WED",
      "start_time": "10:00",
      "end_time": "11:15"
    }
  ],
  "category": [
    {
      "id": 1,
      "category": "Classes"
    }
  ]
}
```

Get event by date

- Method: GET
- Endpoint: /api/events/date/
- Request Body:

```
{"date": <Date in YYYY-MM-DD format>}
```

- Success Response:

```
{
  "events": [
    {
      "id": 1,
      "title": "CS Lecture",
      "recurrence": "WEEKLY",
      "start_time_frame": "2025-09-01",
      "end_time_frame": "2025-12-15",
      "timespan": [
        {
          "day_of_week": "MON",
          "start_time": "10:00",
          "end_time": "11:15"
        },
        {
          "day_of_week": "WED",
          "start_time": "10:00",
          "end_time": "11:15"
        }
      ]
    },
    {
      "id": 2,
      "title": "Gym",
      "recurrence": "NONE",
      "start_time_frame": "2025-05-10",
      "end_time_frame": "2025-05-10",
      "timespan": [
        {
          "day_of_week": "MON",
          "start_time": "10:00",
          "end_time": "11:15"
        },
        {
          "day_of_week": "WED",
          "start_time": "10:00",
          "end_time": "11:15"
        }
      ]
    }
  ],
  "category": [
    {
      "id": 1,
      "category": "Classes"
    }
  ]
}
```

```
}
```

Get event by id

- Method: GET
- Endpoint: /api/events/<int:event_id>/
- Success Response:

```
{
  "id": 1,
  "title": "CS Lecture",
  "recurrence": "WEEKLY",
  "start_time_frame": "2025-09-01",
  "end_time_frame": "2025-12-15",
  "timespan": [
    {
      "day_of_week": "MON",
      "start_time": "10:00",
      "end_time": "11:15"
    },
    {
      "day_of_week": "WED",
      "start_time": "10:00",
      "end_time": "11:15"
    }
  ],
  "category": [1, 3] // optional
}
```

Delete event

- Method: DELETE
- Endpoint: /api/events/<int:event_id>/
- Description: Delete an event by ID.
- Parameters: Event ID.
- Success Response:

```
{
  "title": "CS Lecture",
  "recurrence": "WEEKLY",
  "start_time_frame": "2025-09-01",
  "end_time_frame": "2025-12-15",
  "timespan": [
    {
      "day_of_week": "MON",
      "start_time": "10:00",
      "end_time": "11:15"
    },
    {

```

```

    "day_of_week": "WED",
    "start_time": "10:00",
    "end_time": "11:15"
  }
],
"category": [
  {
    "id": 1,
    "category": "Classes"
  }
]
}

```

Update event

- Method: PUT
- Endpoint: /events/<int:event_id>/
- Description: Update an existing event.
- Parameters: Event ID.
- Request Body:

```

{
  "title": "<string, required>",
  "recurrence": "<string, required>",      // e.g., "WEEKLY", "NONE"
  "start_time_frame": "<YYYY-MM-DD, required>", // e.g., "2025-09-01"
  "end_time_frame": "<YYYY-MM-DD, required>",  // e.g., "2025-12-15"
  "timespan": [
    {
      "day_of_week": "<string, required>",      // e.g., "MON"
      "start_time": "<HH:MM, required>",        // e.g., "10:00"
      "end_time": "<HH:MM, required>"           // e.g., "11:15"
    }
    // ... more timespans as needed
  ],
  "category": [<int>, ...]                  // optional, list of category IDs
}

```

- Success Response:

```

{
  "id": 1,
  "title": "CS Lecture",
  "recurrence": "WEEKLY",
  "start_time_frame": "2025-09-01",
  "end_time_frame": "2025-12-15",
  "timespan": [
    {
      "day_of_week": "MON",
      "start_time": "10:00",
      "end_time": "11:15"
    },
    {
      "day_of_week": "WED",
      "start_time": "10:00",

```

```
    "end_time": "11:15"
  }
],
"category": [
  {
    "id": 1,
    "category": "Classes"
  }
]
}
```

TASK API

Create task

- Method: POST
- Endpoint: /api/task/
- Request Body:

```
{
  "description": "string",
  "date": "YYYY-MM-DD",
  "status": false
}
```

- Successful Response:

```
{
  "id": 1,
  "description": "Complete report",
  "date": "2023-10-05",
  "status": false,
  "category": []
}
```

Get task by date

- Method: GET
- Endpoint: /api/task/date/
- Request Body:

```
{"date": <Date in YYYY-MM-DD format>}
```

- Success Response:

```
{
  "id": 1,
  "description": "Complete report",
  "date": "2023-10-05",
  "status": false,
  "category": []
}
```

Get task by id

- Method: GET
- Endpoint: /api/task/<int:task_id>/
- Success Response:

```
{
  "id": 1,
  "description": "Complete report",
  "date": "2023-10-05",
  "status": false,
  "category": []
}
```

Delete task

- Method: DELETE
- Endpoint: /api/task/<int:task_id>/
- Success Response:

```
{
  "id": 1,
  "title": "Buy groceries",
  "description": "Milk, eggs, bread",
  "date": "2023-10-07",
  "status": "incomplete",
  "subtask": ["Milk", "Eggs"]
}
```

Update task

- Method: PUT
- Endpoint: /api/task/<int:task_id>/
- Request Body:

```
{
  "description": "Complete report",
  "date": "2023-10-05",
  "status": false,
  "category": []
}
```

- Successful Response:

```
{
  "description": "Updated report",
  "date": "2023-10-05",
  "status": false,
  "category": []
}
```

CATEGORY API

List All Categories

- Method: GET
- Endpoint: /api/categories/
- Successful Response:

```
{"categories": ["Work", "Personal"]}
```

Get category information

- Method: GET
- Endpoint: /api/categories/<int:cat_id>/
- Successful Response:

```
{  
  "id": 1,  
  "category": "Work",  
  "events": [],  
  "tasks": []  
}
```

Create category

- Method: POST
- Endpoint: /api/categories/
- Request Body:

```
{"category": "Work"}
```

- Successful Response:

```
{  
  "id": 1,  
  "category": "Work",  
  "events": [],  
  "tasks": []  
}
```

Delete category

- Method: POST
- Endpoint: /api/categories/<int:cat_id>/
- Successful Response:

```
{  
  "id": 1,  
  "category": "Work",  
  "events": [],  
  "tasks": []  
}
```

Update category

- Method: POST

- Endpoint: /api/categories/<int:cat_id>/
- Successful Response:

```
{
  "id": 1,
  "category": "Work",
  "events": [],
  "tasks": []
}
```

Add Event to Category

- Method: POST
- Endpoint: api/categories/<int:cat_id>/events/<int:event_id>/
- Successful Response:

```
{
  "id": 1,
  "category": "Work",
  "events": [],
  "tasks": []
}
```

Remove Event from Category

- Method: DELETE
- Endpoint: api/categories/<int:cat_id>/events/<int:event_id>/
- Successful Response:

```
{
  "id": 1,
  "category": "Work",
  "events": [],
  "tasks": []
}
```

Add Task to Category

- Method: POST
- Endpoint: api/categories/<int:cat_id>/tasks/<int:task_id>/
- Successful Response:

```
{
  "id": 1,
  "category": "Work",
  "events": [],
  "tasks": []
}
```

Remove Task from Category

- Method: DELETE
- Endpoint: api/categories/<int:cat_id>/tasks/<int:task_id>/
- Successful Response:


```
{
  "id": 1,
  "category": "Work",
  "events": [],
  "tasks": []
}
```

JOURNAL API

Create journal

- Method: POST
- Endpoint: /api/journals/
- Request Body:

```
{
  "title": "Day Summary",
  "date": "2023-10-05",
  "content": "Today was productive.",
  "mood": "Happy"
}
```

- Successful Response:

```
{
  "title": "Day Summary",
  "date": "2023-10-05",
  "content": "Today was productive.",
  "mood": "Happy"
}
```

Get journals by date

- Method: GET
- Endpoint: /api/journals/date/
- Request Body:

```
{"date": <Date in YYYY-MM-DD format>}
```

- Success Response:

```
{
  "id": 1,
  "title": "Reflection",
  "date": "2023-10-05",
  "content": "Today was productive...",
  "mood": "happy"
}...
```

Update journal by date

- Method: PUT

- Endpoint: /api/journals/date/

- Request Body:

```
{
  "date": "2023-10-05",
  "title": "Updated Title",
  "content": "New content",
  "mood": "Calm"
}
```

- Successful Response:

```
{
  "date": "2023-10-05",
  "title": "Updated Title",
  "content": "New content",
  "mood": "Calm"
}
```

Delete journal by date

- Method: DELETE

- Endpoint: /api/journals/date/

- Request Body:

```
{"date": <Date in YYYY-MM-DD format>}
```

- Success Response:

```
{
  "id": 1,
  "title": "Reflection",
  "date": "2023-10-05",
  "content": "Today was productive...",
  "mood": "happy"
}
```