

Missue Tracker API

- Missue Tracker API


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- Project 相關

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- Query
 -  (Public) GET - /api/query/projects?name=<project_name>
 -  (Private) GET /api/query/issues?title=<issue_title>

全域

Bad Request 400 格式

```
{
  "errors": [
    {
      "type": "body" | "query" | "parameter",
      "field": String,
      "code": String,
      "message": String
    }
  ]
}
```

所有種的 code 值 (<https://github.com/typestack/class-validator#validation-decorators>)

Example

```
{
  "errors": [
    {
      "type": "body",
      "field": "name",
      "code": "isNotEmpty",
      "message": "Name should not be empty"
    },
    {
      "type": "body",
      "field": "privacy",
      "code": "max",
      "message": "Pravacy must not be greater than 1"
    }
  ]
}
```

其他 4XX 格式

在 4XX 系列之中，除了 400 Bad Request 之外的錯誤的 body 格式一率用以下呈現：

```
{
  "message": string // 錯誤訊息
}
```

User 相關

User 列舉值

Status

```
Normal = 0
Banned = 1
```

Permission

```
User = 0
Admin = 1
```

✅ (Public) GET - /api/users?username

用 username 獲取 id

OK

Task	Progress
Bad Request	OK
Not Found	OK
Return data	OK

Response

- 200 OK

```
{  
  "id": number  
}
```

- 400 Bad Request
沒有給定 username
- 404 Not Found
沒有這個 user

✅ (Public) POST - /api/users

OK

Task	Progress
Conflict	OK
Bad Request	OK
Success	OK

註冊

Request

```
{  
  "username": string,  
  "password": string  
}
```

Response

- 201 Created
- 400 Bad Request
- 409 Conflict
 - username 已經被使用

✓ (Public) GET - /api/session

驗證登入狀態

OK

Task	Progress
Not Found	OK
Success	OK

Response

- 200 OK
已經登入
- 404 Not Found
尚未登入

✓ (Public) POST - /api/session

登入

OK

Task	Progress
Unauthorized	OK
Forbidden	OK
Created	OK

Request

```
{
  "username": string,
  "password": string
}
```

Response

- 201 Created OK
- 401 Unauthorized
登入資訊錯誤
- 403 Forbidden
被 ban 了不能登入

✅ (Private) DELETE - /api/session

登出

OK

Task	Progress
Unauthorized	OK
No Content	OK

Response

- 204 No Content OK
- 401 Unauthorized
沒有登入

✅ (Public) GET - /api/users/:id

取得使用者資料

OK

Task	Progress
Bad Request	OK
Not Found	OK
Success	OK

Response

- 400 Bad Request
 - id 不為整數
- 404 Not Found
 - 找不到目標使用者
- 200 OK

```
{
  "username": string,
  "nickname": string,
  "email": string,
  "autobiography": string,
  "permission": number,
  "status": number
}
```

✅ (Public) GET - /api/users/:id/projects

取得使用者 project 列表

OK

Task	Progress
Bad Request	OK
Not Found	OK
Success	OK

Response

- 200 OK

```
{
  "projects": number[]
}
```

- 400 Bad Request
id 不是整數
- 404 Not Found
沒有這個使用者

✅ (Public) GET - /api/users/:id/issues

取得使用者 issue 列表

OK

Task	Progress
Bad Request	OK
Not Found	OK
Success	OK

Response

- 400 Bad Request
 - id 不為整數
- 404 Not Found
 - 目標使用者不存在
- 200 OK

```
{
  "issues": number[]
}
```

✅ (Private) PUT - /api/users/:id

編輯使用者資料

OK

Task	Progress
Unauthorized	OK
Forbidden	OK
Not Found	OK
Success	OK

Request

```
{
  "nickname": string,
  "email": string,
  "autobiography": string,
}
```

Response

- 200 OK
- 400 Bad Request
- 401 Unauthorized
- 403 Forbidden
- 404 Not Found

✅ (Private) POST - /api/users/:id/ban

禁用使用者

OK

Task	Progress
Unauthorized	OK
Forbidden	OK
Bad Request	OK
Not Found	OK
Created	OK

Response

- 201 Created
- 400 Bad Request
id 不是整數
- 401 Unauthorized
未登入
- 403 Forbidden
權限不足
- 404 Not Found
禁用對象不存在

(Private) DELETE - /api/users/:id/ban

解除禁用使用者

OK

Task	Progress
Unauthorized	OK
Forbidden	OK
Bad Request	OK
Not Found	OK
Created	OK

Response

- 204 No Content

- 400 Bad Request
id 不是整數
- 401 Unauthorized
未登入
- 403 Forbidden
權限不足
- 404 Not Found
解除禁用對象不存在

✔ (Private) GET /api/users/:id/insight

OK

Task	Progress
Forbidden	OK
Not Found	Not Implemented
Created	OK

Response

- 401 Unauthorized
 - 使用者未登入
- 400 Bad Request
 - id 不是整數
- 403 Forbidden
 - 使用者不為 該 id 持有者或是管理員
- 200 OK
 - 成功

```
{
  "slices": [
    {
      "time": string,
      "count": number
    }
  ],
}
```

Project 相關


Project 列舉值

Privacy

Public = 0
Private = 1

Status

Normal = 0
Deleted = 1

 (Public) GET - /api/projects?owner_username&project_name

用 owner_username & project_name 獲取 id

 OK

Task	Progress
Bad Request	OK
Not Found	OK
Success	OK

Response

- 200 OK

```
{  
  "id": number  
}
```

- 400 Bad Request
- 404 Not Found

 (Public) GET - /api/projects/:id

取得 project 資料

OK

Task	Progress
Bad Request	OK
Not Found	OK
Success	OK

Response

- 200 OK

```
{
  "name": string,
  "createdDate": "2019-12-17T14:13:07.851Z", // Date.toJSON()
  "description": string,
  "privacy": number,
  "tags": string[]
}
```

- 404 Not Found

找不到或因權限不足而找不到

✅ (Private) POST - /api/projects

新增 project

OK


Task	Progress
Unauthorized	OK
Bad Request	OK
Conflict	OK
Success	OK

Request

```
{
  "name": string,
  "description": string,
  "privacy": number,
  "tags": string[]
}
```

Response

- 201 Created
- 400 Bad Request
- 401 Unauthorized
- 409 Conflict

 (Private) PUT - /api/projects/:id

修改 project

 OK

Task	Progress
Unauthorized	OK
Bad Request	OK
Not Found	OK
Forbidden	OK
Conflict	OK
Success	OK

Request

```
{
  "name": string,
  "description": string,
  "privacy": number,
  "tags": string[]
}
```

Response

- 200 OK
- 400 Bad Request
- 401 Unauthorized
- 404 Not Found
- 409 Conflict

✅ (Private) DELETE - /api/projects/:id

刪除 project

OK

Task	Progress
Unauthorized	OK
Not Found	OK
Forbidden	OK
Not Content	OK

Response

- 204 Not Content
- 401 Unauthorized
- 403 Forbidden
- 404 Not Found

✅ (Private) PUT - /api/projects/:id/owner

轉移 project owner

(轉移的對象寫在 body 裡面)

In Progress

Task	Progress
Unauthorized	OK
Bad Request	OK
Forbidden	OK
Not Found	OK
Conflict	OK
Success	OK

Request

```
{  
  "id": number  
}
```

Response

- 401 Unauthorized
 - 使用者沒有登入
- 400 Bad Request
 - id 不為整數
 - body 內的轉移對象 id 不為整數
- 404 Not Found （專案）
 - 專案實際上不存在
 - 專案存在，但使用者不是專案成員或管理員
- 403 Forbidden
 - 使用者不為 專案擁有者 或是 管理員
 - 被轉移者為被封鎖狀態（Banned）
 - 被轉移者不為此專案的成員
- 404 Not Found （使用者）
 - 被轉移者不存在
- 409 Conflict
 - 被轉移者目前所擁有的專案之中，有一個專案的名稱與此專案一樣
- 200 OK
 - 成功

✅ (Private) PUT - /api/projects/:id/privacy

設定 project 隱私

OK

Task	Progress
Unauthorized	OK
Bad Request	OK
Not Found	OK
Forbidden	OK
Success	OK

Request

0 = public , 1 = private

```
{
  "privacy": number
}
```

Response

- 200 OK
- 400 Bad Request
- 401 Unauthorized
- 403 Forbidden
- 404 Not Found

✅ (Private) POST - /api/projects/:id/members

將 user 加入於該 project 中
(加入的對象寫在 body 裡面)

OK

Task	Progress
Unauthorized	OK
Bad Request	OK
Not Found	OK
Forbidden	OK
Conflict	OK
Success	OK

Request

```
{  
  "id": number  
}
```

Response

- 200 OK
- 400 Bad Request
- 401 Unauthorized
- 403 Forbidden
- 404 Not Found (User and project)

(Private) DELETE - /api/projects/:id/members

將指定 user 從指定 project 中移除
(刪除的對象寫在 body 裡面)

 OK

Task	Progress
Unauthorized	OK
Bad Request	OK
Not Found	OK
Forbidden	OK
No Content	OK

Request

```
{
  "id": number
}
```

Response

- 401 Unauthorized
 - 使用者未登入
- 400 Bad Request
 - parameter 中的 id 不為整數
 - body 中的 id 不為整數
- 404 Not Found
 - 目標專案不存在
 - 要被移除的成員不在此專案中
- 403 Forbidden
 - 使用者不為專案擁有者 或是 管理員
 - 使用者嘗試移除專案擁有者
- 204 No Content
 - 成功

 (public) GET - /api/projects/:id/members

取得指定 project 下的成員們 id

 OK

Task	Progress
Bad Request	OK
Not Found	OK
Success	OK

Request

Response

- 400 Bad Request
 - id 不是整數
- 404 Not Found
 - 目標專案不存在
 - 目標專案存在，但專案的 `privacy` 為 `private` 且使用者不為專案成員或管理員
- 200 OK
 - 成功

```
{
  "members": number[]
}
```

✅ (Public) GET - /api/projects/:id/labels

取得 project labels id 們

OK

Task	Progress
Bad Request	OK
Not Found	OK
Success	OK

Request

Response

- 400 Bad Request

- id 不為整數
- 404 Not Found
 - 目標專案不存在
 - 專案存在，但專案的 `privacy` 為 `private` 且使用者不為專案成員或是管理員
- 200 OK
 - 成功

```
{
  "labels": number[]
}
```

✅ (Private) POST - `/api/projects/:id/labels`

創建 project label

OK

Task	Progress
Unauthorized	OK
Bad Request	OK
Not Found	OK
Forbidden	OK
Conflict	OK
Created	OK

Request

```
{
  "name": string,
  "description": string,
  "color": string // RGB HEX
}
```

Response

- 401 Unauthorized

- 使用者尚未登入
- 400 Bad Request
 - id 不為整數
 - name 字串長度超過 50
 - description 字串長度超過 250
 - color 字串長度不為 6
- 404 Not Found
 - 該專案不存在
- 403 Forbidden
 - 使用者不為 專案擁有者 或是 管理員
- 409 Conflict
 - 已存在名稱相同的 Label
- 201 Created
 - 成功

✅ (Public) GET - /api/labels/:id

取得 label 資訊

OK

Task	Progress
Bad Request	OK
Not Found	OK
Success	OK

Request

Response

- 400 Bad Request
 - id 不為整數
- 404 Not Found
 - 該 Label 不存在
- 200 OK

```
{
  "name": string,
  "description": string,
  "color": string,
  "deprecated": boolean
}
```

✔ (Private) PUT - /api/labels/:id

編輯 project label

OK

Task	Progress
Unauthorized	OK
Bad Request	OK
Not Found	OK
Forbidden	OK
Conflict	OK
Success	OK

Request

```
{
  "name": string,
  "description": string,
  "color": string // RGB HEX
}
```

Response

- 401 Unauthorized
 - 使用者尚未登入
- 400 Bad Request
 - id 不為整數
 - name 字串長度超過 50
 - description 字串長度超過 250

- color 字串長度不為 6
- 404 Not Found
 - 該 Label 不存在
- 403 Forbidden
 - 使用者不為 專案擁有者 或是 管理員
- 409 Conflict
 - 在目前專案下的所有 Label 中存在 name 與更新內容的 name 相同的值
- 200 OK
 - 成功

(Private) DELETE - /api/labels/:id

棄置 project label

OK

Task	Progress
Unauthorized	OK
Bad Request	OK
Not Found	OK
Forbidden	OK
Not Content	OK

Request

Response

- 401 Unauthorized
 - 使用者未登入
- 400 Bad Request
 - id 不為整數
- 404 Not Found
 - 該 Label 不存在
- 403 Forbidden
 - 使用者不為在 Label 所屬的專案之下的 專案擁有者 或是 管理員
- 204 No Content

- 成功

Issue

✓ (Public) GET - /api/projects/:id/issues

OK

Task	Progress
Bad Request	OK
Not Found	OK
Success	OK

Request

Response

- 400 Bad Request
 - id 不為整數
- 404 Not Found
 - 專案不存在
 - 專案為 `private` 且使用者不為 專案成員 或是 管理員
- 200 OK
 - 成功

```
{  
  "issues": number[]  
}
```

✓ (Private) POST - /api/projects/:id/issues

發起 issue

OK

Task	Progress
Unauthorized	OK
Bad Request	OK
Not Found	OK
Forbidden	OK
Created	OK

Request

```
{
  "title": string,
  "comment": {
    "content": string
  },
  "labels": number[],
  "assignees": number[]
}
```

Response

- 401 Unauthorized
 - 使用者未登入
- 400 Bad Request
 - id 不為整數
 - title 留空 或 字數超過 45
 - comment 不存在
 - comment.content 留空 或 字數超過 250
 - labels 不為整數陣列
 - assignees 不為整數陣列
- 404 Not Found
 - 找不到該專案 OK
- 403 Forbidden
 - 專案為 private 且使用者不為 專案成員 或是 管理員 OK
 - assignees 中有任一位不為此專案成員 OK
 - labels 中有任一個 Label 不屬於這個專案 OK
- 201 Created

- 成功 OK

✅ (Public) GET - /api/issues/:id

查看 issue

OK

Task	Progress
Bad Request	OK
Not Found	OK
Success	OK

Request

Response

- 400 Bad Request
 - id 不為整數
- 404 Not Found
 - Issue 實際不存在
 - Issue 所屬的 Project 為 private 且使用者不為 專案參與者 或 管理員
- 200 OK
 - 成功

```
{
  "title": string,
  "number": number,
  "owner": number,
  "labels": number[],
  "assignees": number[]
  "createTime": string,
  "updateTime": string
}
```

✅ (Private) PUT - /api/issues/:id

編輯 issue

OK


Task	Progress
Unauthorized	OK
Bad Request	OK
Not Found	OK
Forbidden	OK
Success	OK

Request

```
{
  "title": string,
  "labels": number[],
  "assignees": number[]
}
```

Response

- 401 Unauthorized
 - 使用者沒有登入
- 400 Bad Request
 - id 不為整數
 - title 留空 或 字數超過 45
 - labels 不為整數陣列 或 陣列中有重複的元素
 - assignees 不為整數陣列 或 陣列中有重複的元素
- 404 Not Found
 - 該 Issue 不存在
- 403 Forbidden
 - 使用者不為 Issue 發起者、專案參與者、管理員
 - labels 內存有一或多個不屬於該專案的 Label
 - assignees 內存有一或多個非該專案之成員
- 200 OK
 - 成功

 (Private) DELETE - /api/issues/:id

 OK

Task	Progress
Unauthorized	OK
Bad Request	OK
Not Found	OK
Forbidden	OK
No Content	OK

Request

Response

- 401 Unauthorized
 - 使用者未登入
- 400 Bad Request
 - id 不為整數
- 404 Not Found
 - 找不到目標 Issue
- 403 Forbidden
 - 使用者不為 議題發起者、專案參與者、管理員
- 204 No Content
 - 成功

(Public) GET - /api/issues/:id/comments

查看 issue comment id 們



Task	Progress
Bad Request	OK
Not Found	OK
Success	OK

Request

Response

- 400 Bad Request
 - id 不為整數
- 404 Not Found
 - 目標 Issue 不存在
 - Issue 存在，但其所屬專案為 `private` 且使用者不為該專案成員 且 不為管理員
- 200 OK
 - 成功

```
{
  "comments": number[]
}
```

- 404 Not Found

✅ (Private) POST - `/api/issues/:id/comments`

新增 issue comment

OK

Task	Progress
Unauthorized	OK
Bad Request	OK
Not Found	OK
Created	OK

Request

```
{
  "content": string
}
```

Response

- 401 Unauthorized
 - 使用者未登入
- 400 Bad Request

- id 不為整數
- content 不為空
- 404 Not Found
 - Issue 不存在
 - Issue 所在的專案為 `private` 且使用者不為專案參與者 或是 管理員
- 201 Created
 - 成功

Comment

 (Public) GET `/api/comments/:id`

查看 issue comment

 OK

Task	Progress
Bad Request	OK
Not Found	OK
Success	OK

Request

Response

- 400 Bad Request
 - id 不為整數
- 404 Bad Request
 - 指定的 Comment 不存在
 - Comment 存在，但使用者不為 Comment 所在專案之下的 專案參與者 且 不為管理員
- 200 OK
 - 成功

```
{
  "content": string,
  "owner": number,
  "createTime": string,
  "updateTime": string
}
```

✔ (Private) PUT /api/comments/:id

修改 issue comment

OK

Task	Progress
Unauthorized	OK
Bad Request	OK
Not Found	OK
Forbidden	OK
Success	OK

Request

```
{
  "content": string
}
```

Response

- 401 Unauthorized
 - 使用者未登入
- 400 Bad Request
 - id 不為整數
 - content 為空
- 404 Not Found
 - 目標 Comment 不存在
 - Comment 存在的所屬專案為 private 且使用者不為 Comment 擁有者、專案參與者、管理員

- 403 Forbidden
 - 專案為 `public` 且使用者不為 `Comment` 擁有者 與 管理員
 - 專案為 `private` 且使用者為專案參與者 但 不為 `Comment` 擁有者 與 管理員
- 200 OK
 - 成功

✓ (Private) PUT `/api/comments/:id/status`

隱藏 issue comment

OK

Task	Progress
Unauthorized	OK
Bad Request	OK
Not Found	OK
Forbidden	OK
Success	OK

Request

```
{
  "status": number
}
```

Response

- 401 Unauthorized
 - 使用者未登入
- 400 Bad Request
 - `id` 不為整數
 - `status` 不為整數 `0` 或 `1`
- 404 Not Found
 - `Comment` 實際不存在
 - `Comment` 存在且其所在的專案為 `private`，但使用者不為 專案擁有者、管理員
- 403 Forbidden

- Comment 所屬專案為 `public` 且使用者不為 專案擁有者 與 管理員
- Comment 所屬專案為 `private` 且使用者為該專案成員 但 不為 專案擁有者 與 管理員
- 200 OK
 - 成功

Query

✅ (Public) GET - `/api/query/projects?name=<project_name>`

透過 project 名稱搜尋 project

OK

Task	Progress
Success	OK

Request

Response

- 200 OK
 - 成功

```
{  
  "projects": number[]  
}
```

✅ (Private) GET `/api/query/issues?title=<issue_title>`

透過 issue 標題搜尋 issue

OK

Task	Progress
Success	OK

Request

Response

- 200 OK
 - 成功

```
{  
  "projects": number[]  
}
```