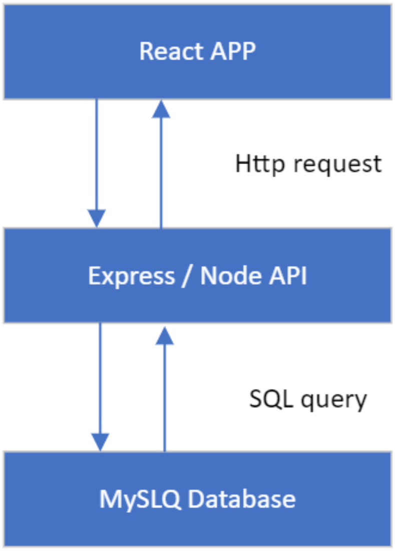
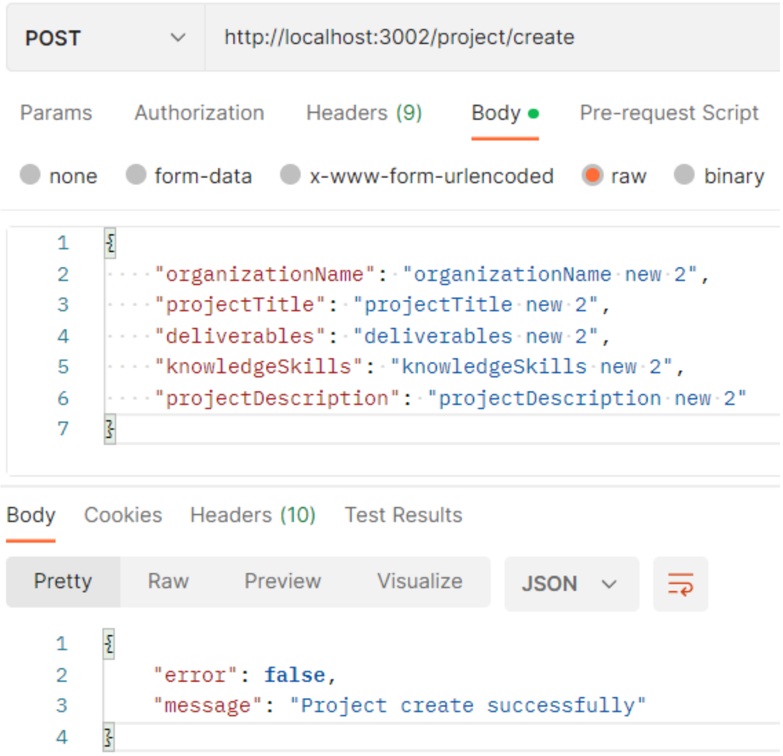
Technical Specification Sheet

This is a web application containing a front end, a back end, and a SQL database. the front end is based on React which is a JavaScript library for building user interfaces. The back end is based on Express, a minimal and flexible Node.js web application framework. The database is stored in MySQL, a relational database management system.



This is an explanation of all the APIs in this application:

Create a project



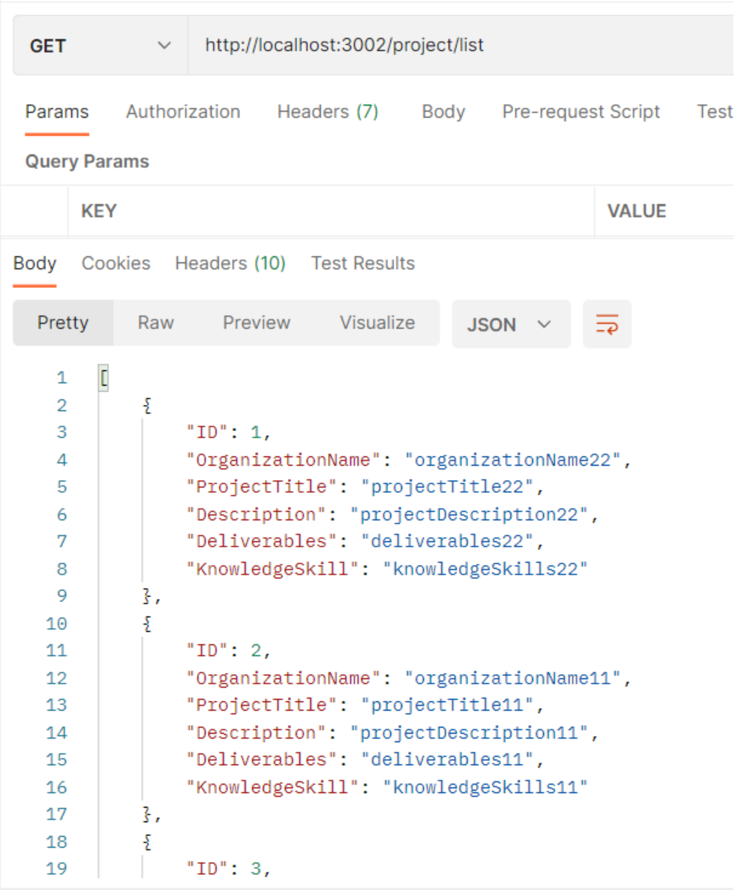
POST http://localhost:3002/project/create

○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary

```
{
    "organizationName": "organizationName new 2",
    "projectTitle": "projectTitle new 2",
    "deliverables": "deliverables new 2",
    "knowledgeSkills": "knowledgeSkills new 2",
    "projectDescription": "projectDescription new 2"
}
```

```
{
    "error": false,
    "message": "Project create successfully"
}
```

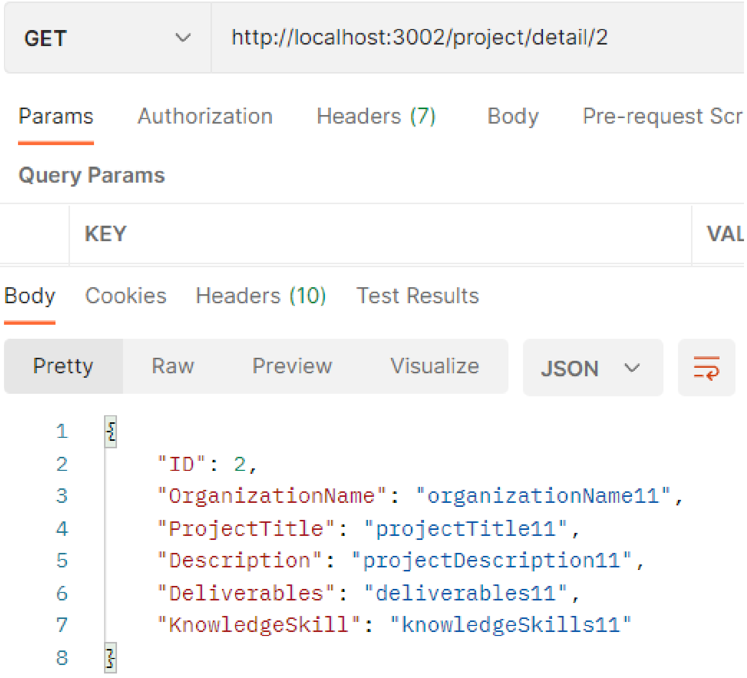
Check projects list



http://localhost:3002/project/list

```
[
    {
        "ID": 1,
        "OrganizationName": "organizationName22",
        "ProjectTitle": "projectTitle22",
        "Description": "projectDescription22",
        "Deliverables": "deliverables22",
        "KnowledgeSkill": "knowledgeSkills22"
    },
    {
        "ID": 2,
        "OrganizationName": "organizationName11",
        "ProjectTitle": "projectTitle11",
        "Description": "projectDescription11",
        "Deliverables": "deliverables11",
        "KnowledgeSkill": "knowledgeSkills11"
    },
    {
        "ID": 3,
```

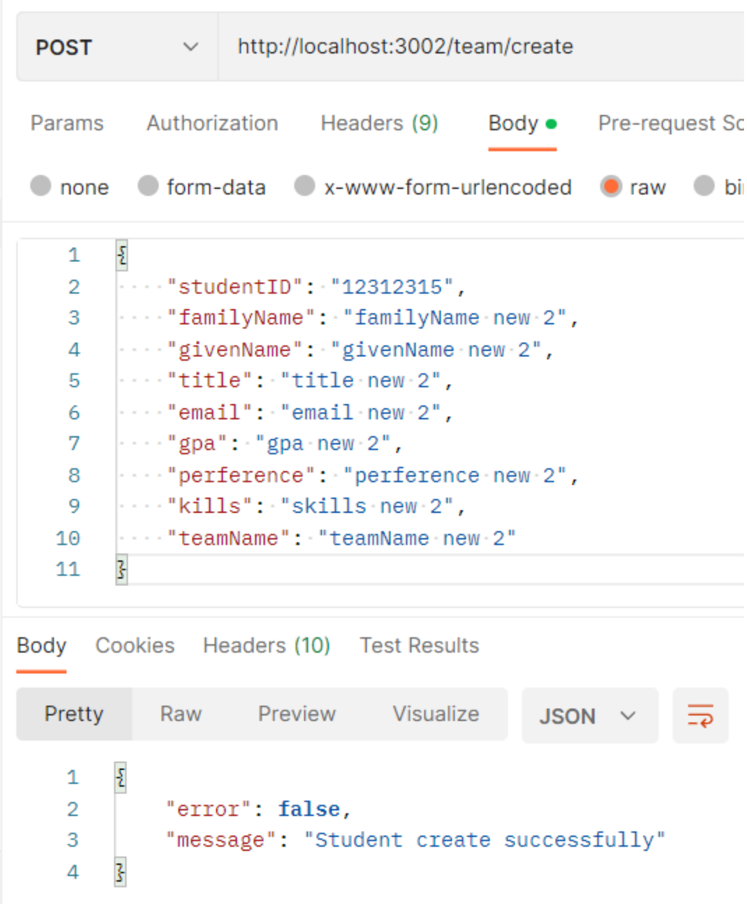
Check the details of a project with Project ID



http://localhost:3002/project/detail/2

```
{
    "ID": 2,
    "OrganizationName": "organizationName11",
    "ProjectTitle": "projectTitle11",
    "Description": "projectDescription11",
    "Deliverables": "deliverables11",
    "KnowledgeSkill": "knowledgeSkills11"
}
```

Upload a student
(studentID, familyName, givenName, title, email, gpa, perference, skills, teamName)



POST http://localhost:3002/team/create

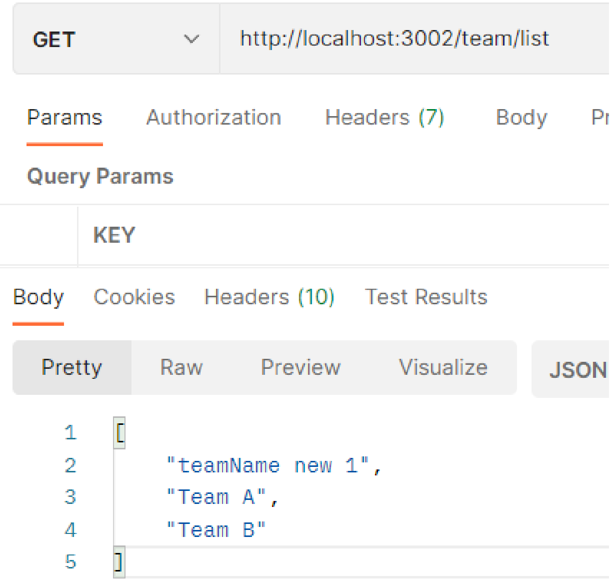
Body: raw

```
{
    "studentID": "12312315",
    "familyName": "familyName new 2",
    "givenName": "givenName new 2",
    "title": "title new 2",
    "email": "email new 2",
    "gpa": "gpa new 2",
    "perference": "perference new 2",
    "kills": "skills new 2",
    "teamName": "teamName new 2"
}
```

Body — JSON

```
{
    "error": false,
    "message": "Student create successfully"
}
```

Check the list for all the teams

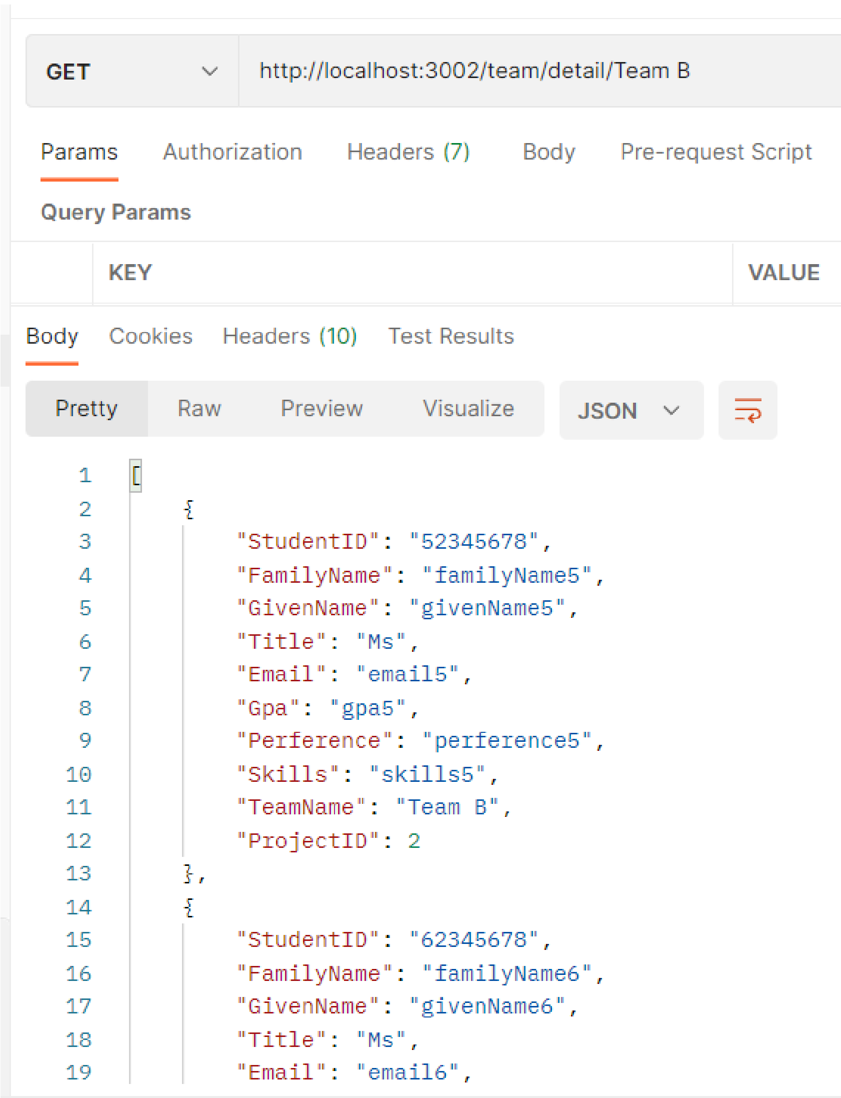


GET http://localhost:3002/team/list

Body — JSON

```
[
    "teamName new 1",
    "Team A",
    "Team B"
]
```

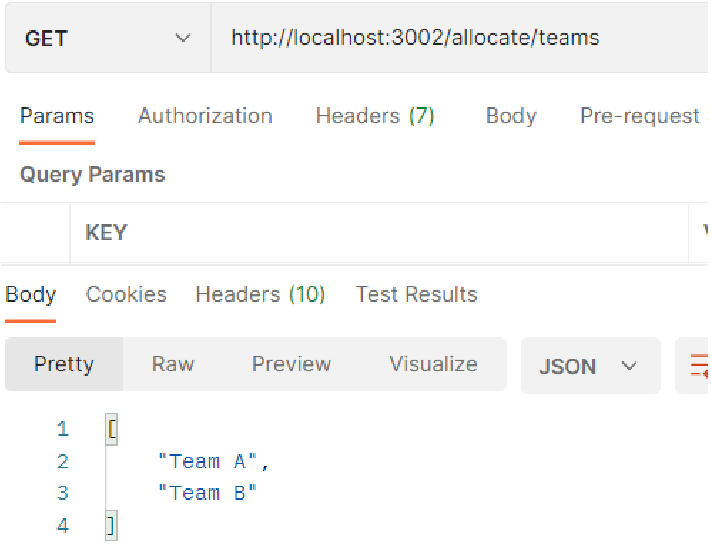
Check details of students in a team with Team Name



GET http://localhost:3002/team/detail/Team B

```
[
    {
        "StudentID": "52345678",
        "FamilyName": "familyName5",
        "GivenName": "givenName5",
        "Title": "Ms",
        "Email": "email5",
        "Gpa": "gpa5",
        "Perference": "perference5",
        "Skills": "skills5",
        "TeamName": "Team B",
        "ProjectID": 2
    },
    {
        "StudentID": "62345678",
        "FamilyName": "familyName6",
        "GivenName": "givenName6",
        "Title": "Ms",
        "Email": "email6",
```

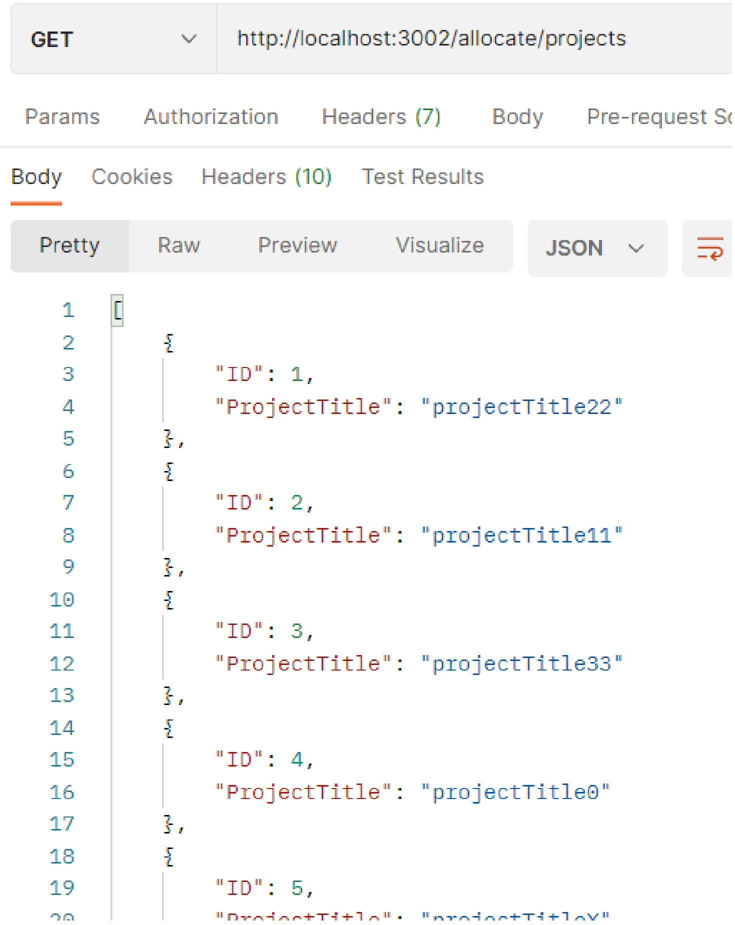
Check teams without allocation



GET http://localhost:3002/allocate/teams

```
[
    "Team A",
    "Team B"
]
```

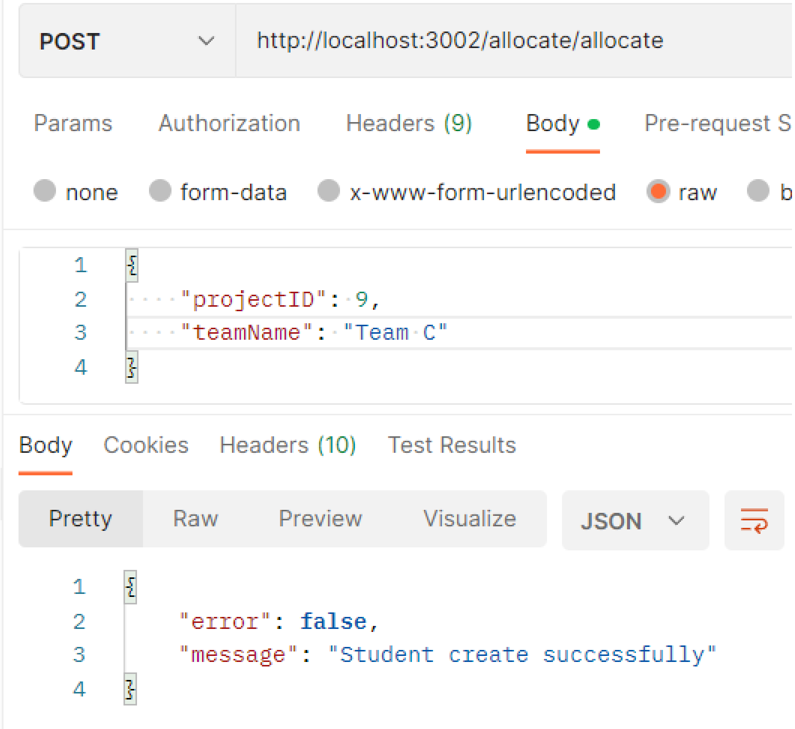
Check projects without allocation



GET http://localhost:3002/allocate/projects

```
[
    {
        "ID": 1,
        "ProjectTitle": "projectTitle22"
    },
    {
        "ID": 2,
        "ProjectTitle": "projectTitle11"
    },
    {
        "ID": 3,
        "ProjectTitle": "projectTitle33"
    },
    {
        "ID": 4,
        "ProjectTitle": "projectTitle0"
    },
    {
        "ID": 5,
        "ProjectTitle": "projectTitleX"
```

Upload the allocation (project - team)

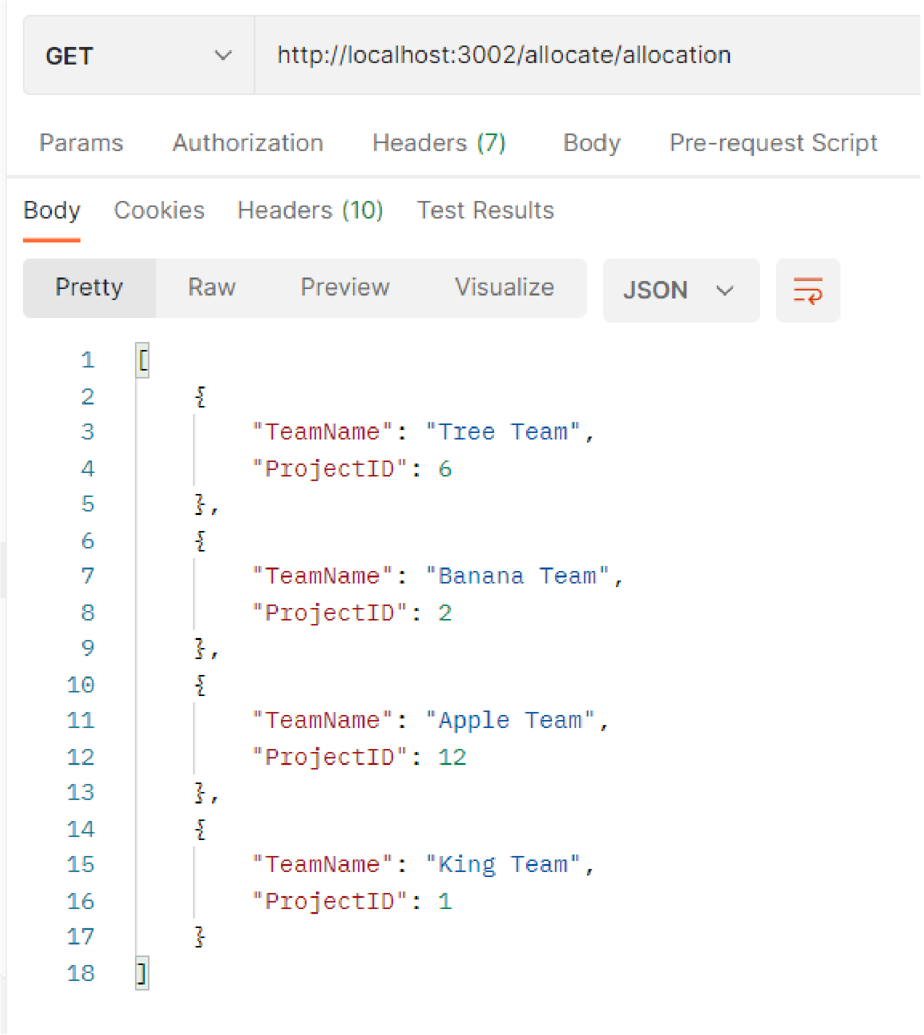


POST http://localhost:3002/allocate/allocate

```
{
    "projectID": 9,
    "teamName": "Team C"
}
```

```
{
    "error": false,
    "message": "Student create successfully"
}
```

Check the list of all the allocations



GET http://localhost:3002/allocate/allocation

```
[
    {
        "TeamName": "Tree Team",
        "ProjectID": 6
    },
    {
        "TeamName": "Banana Team",
        "ProjectID": 2
    },
    {
        "TeamName": "Apple Team",
        "ProjectID": 12
    },
    {
        "TeamName": "King Team",
        "ProjectID": 1
    }
]
```