

# EFCORE API-CodeFirst

Google One Confirm x Spreadsheet shared x User Stories BookN x Google Gemini x API Core - One to M x Swa

localhost:5293/swagger/index.html

### Schemas

**Employee** ▾ {

- employeeId ▾ integer(\$int32)
- employeeCode\* ▾ string
  - maxLength: 8
  - minLength: 0
- fullName\* ▾ string
  - maxLength: 150
  - minLength: 0
- email\* ▾ string(\$email)
  - minLength: 1
- designation\* ▾ string
  - maxLength: 50
  - minLength: 0
- salary\* ▾ number(\$double)
- projectId ▾ integer(\$int32)
- project ▾ **Project** > {...}

}

**Project** ▾ {

- projectId ▾ integer(\$int32)
- projectCode\* ▾ string
  - maxLength: 10
  - minLength: 0
- projectName\* ▾ string
  - maxLength: 100
  - minLength: 0
- startDate\* ▾ string(\$date-time)
- endDate ▾ string(\$date-time)
  - nullable: true
- budget\* ▾ number(\$double)
- employees ▾ [
  - nullable: true
  - > {...}]

}

CONNECTIONS

SERVERS

Conn String

localhost, <default> (sa)

Databases

System Databases

College

Tables

Views

Synonyms

Programmability

External Resources

Service Broker

Storage

Security

EmployeeProjectTrackerDB

Tables

dbo.Employees

dbo.Projects

dbo.\_\_EFMigrationsHistory

Dropped Ledger Tables

Views

Synonyms

Programmability

External Resources

Service Broker

Storage

Security

HRBooks

KA25

PhotographerDB

StudentDB

Security

Server Objects

KA25

AZURE

SQLQuery\_1 - disconnected

SQLQuery\_2 - (57) KA25

localhost:HRBooks

dbo.Authors

Run

Cancel

Disconnect

Change

Database: EmployeeProjectTrac...

Estimated Plan

Enable Actual Plan

Parse

1

USE EmployeeProjectTrackerDB;

2

3

SELECT \* FROM Projects;

4

SELECT \* FROM Employees;

5

Results

Messages

	ProjectId	ProjectCode	ProjectName	StartDate	EndDate	Budget
1	1	PRJ001	HR Management System	2025-01-01 00:00:00.0000000	2025-06-30 00:00:00.0000000	500000.00
2	2	PRJ002	E-Commerce Platform	2025-02-15 00:00:00.0000000	NULL	1200000.00

	EmployeeId	EmployeeCode	FullName	Email	Designation	Salary	ProjectId
1	1	EMP001	John Doe	john.doe@example.com	Software Engineer	60000.00	1
2	2	EMP002	Alice Johnson	alice.johnson@example.com	QA Engineer	55000.00	1
3	3	EMP003	Robert Smith	robert.smith@example.com	Project Manager	90000.00	2
4	4	EMP004	Sophia Brown	sophia.brown@example.com	UI/UX Designer	65000.00	2

Ln 1, Col 1 (81 selected)

Spaces: 4

UTF-8

LF

6 rows

MSSQL

00:00:00

localhost,1433 : EmployeeProjectTrackerDB (57)

Responses

Code

Description

200

OK

Media type

text/plain

Controls Accept header.

Example Value

Schema

```
[
  {
    "projectId": 0,
    "projectCode": "string",
    "projectName": "string",
    "startDate": "2025-09-24T18:05:12.653Z",
    "endDate": "2025-09-24T18:05:12.653Z",
    "budget": 0,
    "employees": [
      {
        "employeeId": 0,
        "employeeCode": "string",
        "fullName": "string",
        "email": "user@example.com",
        "designation": "string",
        "salary": 0,
        "projectId": 0,
        "project": "string"
      }
    ]
  }
]
```

200

OK

No links

Media type

text/plain

Controls Accept header.

Example ValueSchema

```
{
  "projectId": 0,
  "projectCode": "string",
  "projectName": "string",
  "startDate": "2025-09-24T18:06:12.489Z",
  "endDate": "2025-09-24T18:06:12.489Z",
  "budget": 0,
  "employees": [
    {
      "employeeId": 0,
      "employeeCode": "string",
      "fullName": "string",
      "email": "user@example.com",
      "designation": "string",
      "salary": 0,
      "projectId": 0,
      "project": "string"
    }
  ]
}
```

The screenshot displays the Visual Studio Code interface with a REST client extension. The top bar shows the active file as `EmployeeProjectTrackerAPI`. The Explorer sidebar on the left lists the project structure, including `bin`, `Controllers`, `Data`, `Models`, and `Program.cs`. The main editor area is divided into two panes. The left pane shows a REST client request configuration: `GET http://localhost:5293/api/projects/1` with a `Send` button. The request body is set to `JSON` format. The right pane displays the response status: `Status: 200 OK`, `Size: 498 Bytes`, and `Time: 107 ms`. Below the status, the response body is shown in `JSON` format, containing an array of employee objects. The bottom status bar indicates the project is `EmployeeProjectTrackerAPI.sln` and the solution file is open.

EXPLORER

bin

Controllers

EmployeesController...

ProjectsController.cs

Data

AppDbContext.cs

Migrations

Models

Employee.cs

Project.cs

obj

Properties

appsettings.Developm...

appsettings.json

EmployeeProjectTrack...

EmployeeProjectTrack...

EmployeeProjectTrack...

Program.cs

OUTLINE

TIMELINE

SOLUTION EXPLORER

GET http://localhost:5293/api/projects/1 Send

Query Headers 2 Auth Body Tests Pre Run

JSON XML Text Form Form-encode GraphQL

JSON Content

1

Status: 200 OK Size: 498 Bytes Time: 107 ms

Response Headers 5 Cookies Results Docs

```
1 {
2   "projectId": 1,
3   "projectCode": "PRJ001",
4   "projectName": "HR Management System",
5   "startDate": "2025-01-01T00:00:00",
6   "endDate": "2025-06-30T00:00:00",
7   "budget": 500000.00,
8   "employees": [
9     {
10      "employeeId": 1,
11      "employeeCode": "EMP001",
12      "fullName": "John Doe",
13      "email": "john.doe@example.com",
14      "designation": "Software Engineer",
15      "salary": 60000.00,
16      "projectId": 1
17    },
18    {
19      "employeeId": 2,
20      "employeeCode": "EMP002",
21      "fullName": "Alice Johnson",
22      "email": "alice.johnson@example.com",
23      "designation": "QA Engineer",
24      "salary": 55000.00,
25      "projectId": 1
26    }
27  ]
28 }
```

Bootstrap v5.3.7 0 0 0 Projects: 1 Debug Any CPU Solution file opened: EmployeeProjectTrackerAPI.sln

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localhost:5293/swagger/index.html

# Employee Project Tracker API v1 OAS 3.0

[/swagger/v1/swagger.json](#)

Simple API for managing Employees and Projects

## Employees

GET

/api/Employees

POST

/api/Employees

GET

/api/Employees/{id}

PUT

/api/Employees/{id}

DELETE

/api/Employees/{id}

## Projects

GET

/api/Projects

POST

/api/Projects

GET

/api/Projects/{id}

PUT

/api/Projects/{id}

DELETE

/api/Projects/{id}

EmployeeProjectTrackerAPI

EXPLORER

- EMPLOYEEPROJECTTRAC...
- bin
- Controllers
  - EmployeesController....
  - ProjectsController.cs
- Data
  - AppDbContext.cs
- Migrations
- Models
  - Employee.cs
  - Project.cs
- obj
- Properties
- appsettings.Developm...
- appsettings.json
- EmployeeProjectTrack...
- EmployeeProjectTrack...
- EmployeeProjectTrack...
- Program.cs

POST http://localhost:5293/api/projects Send

Query Headers 2 Auth Body 1 Tests Pre Run

JSON XML Text Form Form-encode GraphQL Binary

JSON Content

```
1
2 {
3   "projectCode": "PRJ001",
4   "projectName": "HR Management System",
5   "startDate": "2025-01-01T00:00:00",
6   "endDate": "2025-06-30T00:00:00",
7   "budget": 500000
8 }
```

Status: 201 Created Size: 172 Bytes Time: 220 ms

Response Headers 6 Cookies Results Docs

```
1 {
2   "projectId": 1,
3   "projectCode": "PRJ001",
4   "projectName": "HR Management System",
5   "startDate": "2025-01-01T00:00:00",
6   "endDate": "2025-06-30T00:00:00",
7   "budget": 500000,
8   "employees": []
9 }
```

OUTLINE TIMELINE SOLUTION EXPLORER

Bootstrap v5.3.7 0 0 0 Projects: 1 Debug Any CPU Solution file opened: EmployeeProjectTrackerAPI.sln