- 1. To setup the project first run **npm install** to install the dependencies.
- 2. To run the project run the command: node server.js

As per the requirement I have created 6 API's which are as follows:

1. Create User(http://localhost:7000/api/controller/createUser):

This api will create a user in Users table which can act as an assigner or an assignee

This can be accessed by using the curl command or postman by giving appropriate data

```
Postman: Example Json for the postman

{
    "email": "tushar.kudal@gmail.com",
    "name": "tushar",
    "surname": "kudal"
}
```

Curl: run the command from terminal curl --data "email=tk@example.com&name=tushar&surname=kudal" http://localhost:7000/api/controller/createUser

2. Create Project(http://localhost:7000/api/controller/createProject):

This api will create a project in Projects table it has userId column which acts as assigner for the project

Can be accessed using postman or curl. Sample Json:

```
{
  "name":"tushar",
  "body":"req.body.description",
  "status":"active",
  "UserId":"1"// Assigner of the project which need's to be assigned at the time of project creation
}
```

Will throw an error if UserId is not present in Users table.

3. Create Task(http://localhost:7000/api/controller/createTask):

This api will create a task in Tasks table

```
Sample Json:
{
    "name":"tushar",
    "description":"req.body.description",
    "score":1,
    "status":"active",
    "userId":"1","// Assigner of the task which need's to be assigned at the time of project creation

    "projectId":"1"// Assign the task to the project
}
```

4. Find Users(http://localhost:7000/api/controller/findUsers?name=tushar&surname=kudal):

This api will find the users this can be accessed by entering the above url in browser of postman also can be filtered using name and surname as follow:

Filter using name:

http://localhost:7000/api/controller/findUsers?name=tushar

Filter using surname:

http://localhost:7000/api/controller/findUsers?surname=tushar

5. FindTasks(http://localhost:7000/api/controller/findTasks?status=['active','inactive']&description=req.bod y.description&score=1&name=tushar&assigner_id=1):

This api return the list of tasks based on different filters given in requirement, all the fields are mandatory in this api.

6. FindProjects(http://localhost:7000/api/controller/findProjects?status=['active','inactive']&description=req_body.description&name=tushar&assigner_id=1):

This api return the list of projects based on different filters given in requirement, all the fields are mandatory in this api.

Any violation will given an error eg: if a task is created without a project, or a user is assigned which is not in users table