

ASSIGNMENT

Node JS

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Nagarro campus learning program

NPM Packages used: -

- Express
- Body-parser
- Mongoose
- mongoDB
- errors (Error and response codes)
- Winston (Logging)

File Structure: -

- .git
- .idea
- Models
 - Company.js
 - Registration.js
 - Student.js
- Node_modules
- 2 git files
- App.js (Entry point to the application)
- AppLog.log (for logging)
- Documentation.pdf
- Package

App runs on :- <http://localhost:3000>

Errors: -

- E1 - FailedNameValidation: Invalid Name
 - Valid Name is between the length of 2 – 70
- E2 - FailedDepartmentValidation: Invalid Department
 - Valid Department are cse, ece, eee, me, cv
- E3 - FailedRollnoValidation: Invalid RollNo
 - Valid Integer is a rollno
- E4 - FailedCGPAValidation: Invalid CGPA
 - Valid cgpa is between 0.1 – 10.0
- E5 - RequiredFieldNotSet: Some filed is missing
- E6 - FailedDateValidation: Date is not Valid
 - Valid date format is MM-DD-YYYY

- E7 - FailedMongoldValidation : Invalid MongoDB

Get Functions:

- /: Welcome Screen
- /api/students: To get the list of students
- /api/companies: To get the list of companies
- /api/registrations: to get the list of registrations

Post Functions:

- /api/students/add: To add students in the database
 - Required schema:
 - Name: String with length between 2 - 70
 - Department: String from the list of cse, ece, ee, me, cv
 - Rollno: Int
 - Cgpa: Float between 0.1 – 10.0

Ex: -

```
{
  "name": "Jatin",
  "department": "CSE",
  "rollno": "3",
  "cgpa": "6"
}
```
 - Errors possible: E1, E2, E3, E4, E5
- /api/companies/add: To add companies in the database
 - Required schema: -
 - Name: String with length between 2 - 70
 - Date_of_placement: String in format MM-DD-YYYY after the today's date

Ex: -

```
{
  "name": "Nagarro",
  "date_of_Placement": "04-28-2017",
}
```
 - Errors possible: E1, E5, E6.

- `/api/students/update`: To update students in the database
 - Parameters (At least one): -
 - `Id=mongold`
 - `Name=string`
 - `Department=string` from cse, ece, eee, me, cv
 - `Cgpa=float` between 0.1 – 10.0
 - `Rollno=integer`

Ex: - `localhost:3000/api/students/update?name=Jatin`
 - Required schema (At least one): -
 - `Name`: String with length between 2 - 70
 - `Department`: String from the list of cse, ece, eee, me, cv
 - `Rollno`: Int
 - `Cgpa`: Float between 0.1 – 10.0

Ex: -

```
{
  "name": "Jatin",
  "department": "CSE",
  "rollno": "3",
  "cgpa": "6"
}
```
 - Errors possible: E1, E2, E3, E4, E5, E7
- `/api/students/register`: To register students for company in the database
 - Parameters: -
 - `sld=mongold` of a student
 - `cld=mongold` of a company

ex: `localhost:3000/api/students/update?sld=id&cld=id`
 - Errors possible: E5, E7

Delete Functions:

- `/api/students/remove`: To remove students from the database
 - Parameters (At least one): -
 - `Id=mongold`
 - `Name=string`
 - `Department=string` from cse, ece, eee, me, cv
 - `Cgpa=float` between 0.1 – 10.0

- Rollno=integer

Ex: - localhost:3000/api/students/remove?name=Jatin

- Errors Possible: E1, E2, E3, E4, E5, E7
- /api/companies/remove: To remove company from the database and if some students have registered with the company to be removed, registration shall also be deleted.
 - Parameters: -
 - Id=mongold
 - Ex: - localhost:3000/api/companies/remove?id=id
 - Errors Possible: E5, E7
- /api/students/unregister: To unregister students from placement of a specific company from the database
 - Parameters: -
 - sId=mongold of a student
 - cId=mongold of a company
 - Ex: localhost:3000/api/students/update?sId=id&cId=id
 - Errors possible: E5, E7