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
 - o Company.js
 - o Registration.js
 - o Student.js
- Node modules
- 2 git files
- App.js (Entry point to the application)
- AppLog.log (for logging)
- 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
 - o 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 MongolD

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, eee, me, cv
 - Rollno: Int
 - Cgpa: Float between 0.1 10.0

```
Ex: -
{
    "name":"Jatin",
    "department":"CSE",
    "rollno":"3",
    "cgpa":"6"
}
```

- o Errors possible: E1, E2, E3, E4, E5
- /api/companies/add: To add companies in the database
 - o 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",
}
```

- o Errors possible: E1, E5, E6.
- /api/students/update: To update students in the database
 - o 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

- o 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"
}
```

- o Errors possible: E1, E2, E3, E4, E5, E7
- /api/students/register: To register students for company in the database
 - o Parameters:
 - sld=mongold of a student
 - cld=mongold of a company

ex: localhost:3000/api/students/update?sld=id&cld=id

o Errors possible: E5, E7

Delete Functions:

- /api/students/remove: To remove students from the database
 - o 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

- o 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.
 - o Parameters: -
 - Id=mongold

Ex: - localhost:3000/api/companies/remove?id=id

- o Errors Possible: E5, E7
- /api/students/unregister: To unregister students from placement of a specific company from the database
 - o Parameters:
 - sld=mongold of a student
 - cld=mongold of a company

Ex: localhost:3000/api/students/update?sId=id&cId=id

o Errors possible: E5, E7