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**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)
* 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 - FailedMongoIdValidation : Invalid MongoID

**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"

}

* + 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=mongoId
    - 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: -
    - sId=mongoId of a student
    - cId=mongoId of a company

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

* Errors possible: E5, E7

**Delete Functions:**

* /api/students/remove: To remove students from the database
  + Parameters (At least one): -
    - Id=mongoId
    - 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=mongoId

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=mongoId of a student
    - cId=mongoId of a company

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

* Errors possible: E5, E7