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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
  + Schema :
    - Name: String
    - 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: E1,E2,E3,E4,E5