1. Restrict user per hits . if any user hit an api again and again then server goes down we use throttling or other techniques to resolve this.  
   <https://stackoverflow.com/questions/20253425/throttle-and-queue-up-api-requests-due-to-per-second-cap>  
   https://blog.logrocket.com/rate-limiting-node-js/
2. <https://httpstatuses.com/> responses
3. **validation library:**  
   There are multiple validation libraries . but this one is good **joi**  
   <https://www.npmjs.com/package/joi>  
   another one  
   <https://www.npmjs.com/package/validator>
4. **Send mail to users: node mailer**https://www.w3schools.com/nodejs/nodejs\_email.asp
5. Query Params Vs Path Params

**A path Params**, which contains data, usually organized in hierarchical form, that appears as a sequence of segments separated by slashes. its the part of url  
**An optional query**, separated from the preceding part by a question mark (?), containing a query string of non-hierarchical data.

1. Add remote url  
   <https://support.atlassian.com/bitbucket-cloud/docs/change-the-remote-url-to-your-repository/>
2. Problem: we want global function or variable which we can access in any file without exporting . we can get this if we write into app.js or index.js .the things which we write into server’s file can access any where.
3. Create pdf.
   1. For this purpose first we create html then we convert this to pdf file by using this library  
      <https://www.npmjs.com/package/html-pdf?activeTab=readme>
   2. Code implemented in result pricing project.
4. Download file:  
   we use res.download  
   <https://www.tutsmake.com/node-js-rest-api-download-file-tutorial/>
5. DataTypes
   1. JavaScript has different data types, primitive and non-primitive. There are seven primitive data types, Number, String, Boolean, NULL, Undefined and Symbol and one non-primitive data type ‘object’.

There are differences between NULL and undefined data types though both contain the same value. Like other programming languages, JavaScript also has some in-built language errors or discrepancies which is found in the NULL data type and the data type of JavaScript functions.

* 1. <https://www.edureka.co/blog/data-types-in-javascript/>

1. get millions of data from DB.  
   <https://www.npmjs.com/package/node-sequelize-stream>
2. Unit Testing  
   <https://jestjs.io/docs/getting-started>
3. Important library and also used in testing

<https://www.npmjs.com/package/should>

1. Remote Mongo connect with local :   
   <https://indianceo.medium.com/how-to-connect-to-your-remote-mongodb-server-68725a8e53f>