***Rest API***

1. What is API?

* Application Programming Interface.
* Application can used by the user using an Interface(endpoints).

1. What is REST?

* Representational State Transfer.
* Architectural style of the web.
* A standard/ set of guidelines by which we can structure and create API's.
* REST API's have identifiable properties.

1. REST properties:

* They make use of HTTP methods.
* GET -> Used to retrieve data from the server.
* POST -> Used to send data to the server.
* PUT -> Used to update data.
* DELETE -> Used to delete data.
* They make use of HTTP Status codes.
* Examples:
  + - 200 means OK.
    - 400 means resource not found.
    - 500 means server error.
* **res.end();** 🡺 It is used to stop the process there.
* **res.send();** 🡺 It is used to send the anything to the web page.

1. Middleware: The code that runs in between the Request and Response.
2. Body-Parser is attached to the request side.
3. Models:

* Models represent collections in MongoDB.
* User Model to represent a collection of Users.
* Ninja Model to represent a collection of Ninjas.

1. Schema:

* It is defined as the structure of our data objects

{

name: String,

rank: String,

availability: Boolean

}

1. Mongoose:

* Adds a layer of methods to easily save, edit, retrieve and delete data from mongodb.
* Allows us to create our Models and Schemas easily.

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