

Node.js Server

Programming Assignment

Requirements:

- API server using node.js and npm packages
 - (Optional / Recommended) express.js framework <https://expressjs.com/>
 - (Optional / Recommended) google-spreadsheet <https://www.npmjs.com/package/google-spreadsheet>
- Write a simple key-value storing API server with the following features:
 - Read key-value data from a google spreadsheet (public or private)
 - Write key-value data to a google spreadsheet (public or private)
 - Delete a key-value pair from the spreadsheet
- The server will implement the following APIs:

```
/*
method: GET
URL : /all

Description : returns all items in the google spreadsheet
Data-Type: json
*/

//Example success output
{
  result: 200, //success code
  data: {
    "key1": "value1",
    "key2": "value2"
  }
}

//Example error output
{
  result: 500,
  description: "something went wrong"
}
```

```
/*
method: POST
URL : /data
Body: {
  "key": "value"
}
```

Description : store a key-value pair in the google spreadsheet
- you may assume that there will only be one key-value pair
- if key already exists, you may overwrite old value

Data-Type: json
*/

```
//Example success output
{
  result: 200,
  description: "OK"
}
```

```
//Example error output
{
  result: 500,
  description: "something went wrong"
}
```

```
/*
method: DELETE
URL : /data/:key
```

Description : delete the key-value pair
Data-Type: json
*/

```
//Example success output
{
  result: 200,
  description: "OK"
}
```

```
//Example error output
{
  result: 404,
  description: "key not found"
}
```

Optional requirements:

- Write a web application (html / css / js) that uses the 3 APIs above to implement a TODO list application
 - List TODO items
 - Add TODO items
 - Edit TODO items as "DONE"
 - Delete TODO items