

# NodeJS Mini Project

## Backend Basics

### Aim:

To make a note taking app which takes command from the terminal and performs the following functions:

- Add note
- Remove note
- List notes
- Read note

### App.js

```
1 const yargs = require('yargs');
2 const notes = require('./notes.js');
3
4 yargs.command({
5   command: 'add',
6   describe: 'Adding a Note',
7   builder: {
8     title: {
9       describe: 'Note Title',
10      demandOption: true,
11      type: 'string'
12    },
13    body: {
14      describe: 'Note Body',
15      demandOption: true,
16      type: 'string'
17    }
18  },
19  handler: function(argv){
20    notes.addNote(argv.title, argv.body);
21  }
22 })
23
24 yargs.command({
25   command: 'remove',
26   describe: 'Removing a Note',
27   builder: {
28     title: {
29       describe: 'Note Title',
30       demandOption: true,
```

```
31     type: 'string'
32   },
33   },
34   handler: function(argv){
35     notes.removeNote(argv.title);
36   }
37 })
38
39 yargs.command({
40   command: 'list',
41   describe: 'Listing a Note',
42   handler: function(argv){
43     notes.listNotes();
44   }
45 })
46
47 yargs.command({
48   command: 'read',
49   describe: 'Reading a Note',
50   builder: {
51     title: {
52       describe: 'Note Title',
53       demandOption: true,
54       type: 'string'
55     }
56   },
57   handler: function(argv){
58     notes.readNote(argv.title);
59   }
60 })
```

# Notes.js

```
1 const fs = require('fs');
2 const chalk = require('chalk');
3
4 const addNote = function(title, body){
5   const notes = loadNotes();
6   const duplicateNotes = notes.filter(function (note) {
7     return note.title === title;
8   });
9   if(duplicateNotes.length === 0){
10     notes.push({
11       title: title,
12       body: body
13     });
14     saveNotes(notes);
15     console.log(chalk.bgGreen('\nNew Note Created!\n'));
16   }
17   else{
18     console.log(chalk.bgRed("\nTitle already Taken!\n"));
19   }
20 }
21
22 const removeNote = function(title){
23
24   const notes = loadNotes()
25   const notesToKeep = notes.filter(function (note) {
26     return note.title !== title
27   })
28
29   if (notes.length > notesToKeep.length) {
30     console.log(chalk.bgGreen('Note removed!'));
```

```
31   saveNotes(notesToKeep)
32 }
33 else{
34   console.log(chalk.bgRed('No note found'));
35 }
36 }
37
38 const listNotes = function(){
39   const notes = loadNotes()
40
41   console.log(chalk.keyword('black').bgBlue("\nYour Notes:\n"));
42
43   notes.forEach((note) => {
44     console.log(note.title )
45   });
46 }
47
48 const readNote = function(title){
49   const notes = loadNotes();
50   const note = notes.find((note) => note.title === title)
51   if(note){
52     console.log(note.title + " : " + note.body);
53   }
54   else{
55     console.log(chalk.keyword('black').bgRed("Note Not Found!"));
56   }
57 }
58
59
60
```

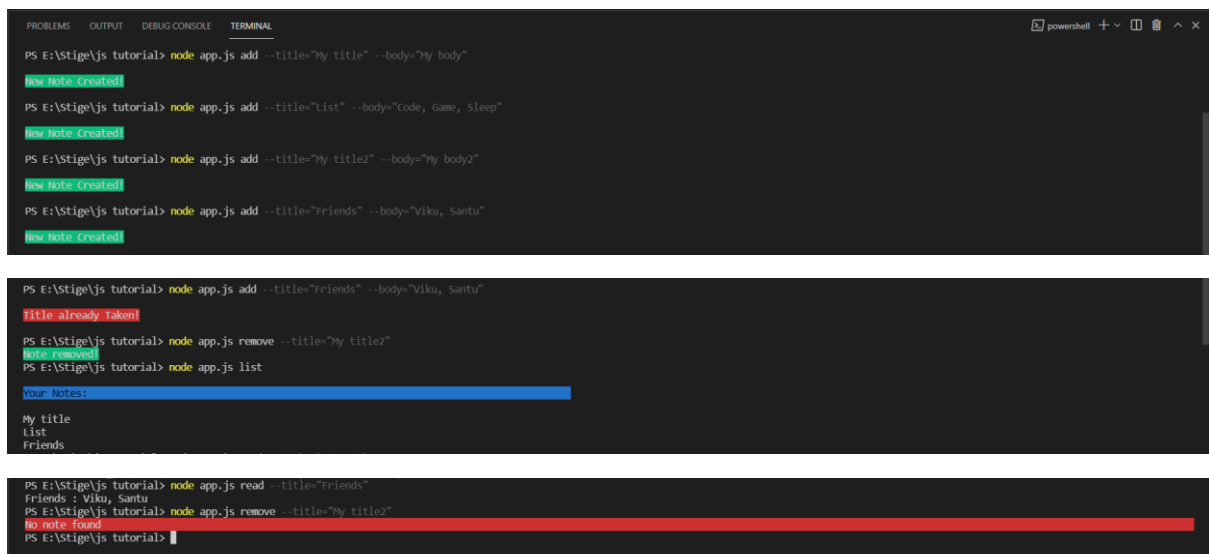
```
59
60
61 const loadNotes = function() {
62   try{
63     const dataBuffer = fs.readFileSync('notes.json');
64     const dataJSON = dataBuffer.toString();
65     return JSON.parse(dataJSON);
66   }
67   catch(e){
68     return []
69   }
70 }
71
72 const saveNotes = function(notes) {
73   const dataJSON = JSON.stringify(notes);
74   fs.writeFileSync('notes.json', dataJSON);
75 }
76
77 module.exports = {
78   addNote : addNote,
79   removeNote : removeNote,
80   listNotes : listNotes,
81   readNote : readNote
82 }
```

## Notes.json:



```
1 [{"title": "My title", "body": "My body"}, {"title": "List", "body": "Code, Game, Sleep"}, {"title": "Friends", "body": "Viku, Santu"}]
```

## OUTPUTS



```
PS E:\Stige\js tutorial> node app.js add --title="My title" --body="My body"
New Note Created

PS E:\Stige\js tutorial> node app.js add --title="List" --body="Code, Game, Sleep"
New Note Created

PS E:\Stige\js tutorial> node app.js add --title="My title2" --body="My body2"
New Note Created

PS E:\Stige\js tutorial> node app.js add --title="Friends" --body="Viku, Santu"
New Note Created

PS E:\Stige\js tutorial> node app.js add --title="Friends" --body="Viku, Santu"
Title already Taken

PS E:\Stige\js tutorial> node app.js remove --title="My title2"
Note removed

PS E:\Stige\js tutorial> node app.js list

Your Notes:

My title
List
Friends

PS E:\Stige\js tutorial> node app.js read --title="Friends"
Friends : Viku, Santu
PS E:\Stige\js tutorial> node app.js remove --title="My title2"
No note found
PS E:\Stige\js tutorial>
```