

RICH INTERNET APPLICATION FINAL PROJECT

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INFORMATION TECHNOLOGY AND MANAGEMENT IIT CHICAGO

Approach:

- 1)Run the Express node.js command file
- 2)Install underscore and method-override for Editing the table
- 3)create the required routes and their respective jade files to design,function and execute in order to get the output
- 4)Create the route paths in app.js file
- 5)When the new data is added to the table data.json files are loaded with the jason data.
- 6)These JSON data can be extracted using restful api services/routes
- 7)Layout.jade is kept common for both the applications

Application : Note App and Car App

Design: Using Node JS

Functionality: CRUD

Links:

<http://localhost:3000/cars>

<http://localhost:3000/notes>

<http://localhost:3000/notes/api>

<http://localhost:3000/cars/api>

Files:

Jade Files:

Add.jade

C:\Users\cggpa\cpai1_a20355489_project\notes\views\add.jade - Sublime Text 2 (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

api.js notes.js add.jade app.js list.jade noteapp.css style.css

```
1 |extends layout
2 |
3 |block content
4 |  .row
5 |    .col-md-6
6 |      h1 Add a NOTE
7 |      form(role="form", method="post", action="/notes/")
8 |        include editform
9 |        button.btn.btn-primary(type="submit") Add note
```

Line 1, Column 1

Find Find Prev Find All

Tab Size: 4 Plain Text

Edit.jade

C:\Users\cggpa\cpai1_a20355489_project\notes\views\edit.jade - Sublime Text 2 (UNREGISTERRED)

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api.js notes.js add.jade edit.jade editform.jade error.jade index.jade layout.jade app.js list.jade noteapp.css style.css

```
1 |extends layout
2 |
3 |block content
4 |  .row
5 |    .col-md-6
6 |      h1 Edit a NOTE
7 |      form(role="form", method="post", action="/notes/#{note.id}?_method=put")
8 |        include editform
9 |        button.btn.btn-primary(type="submit") Edit Note
```

Line 1, Column 1

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Tab Size: 4 Plain Text

Error.jade

C:\Users\cggpa\cpai1_a20355489_project\notes\views\error.jade - Sublime Text 2 (UNREGISTERED)

```
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```

api.js notes.js add.jade edit.jade editform.jade error.jade index.jade layout.jade app.js list.jade noteapp.css style.css

```
1 | extends layout
2 |
3 | block content
4 |   h1= message
5 |   h2= error.status
6 |   pre #{error.stack}
7 |
```

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Line 1, Column 1 Tab Size: 4 Plain Text

Editform.jade

C:\Users\cggpa\cpai1_a20355489_project\notes\views\editform.jade - Sublime Text 2 (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
```

api.js notes.js add.jade edit.jade editform.jade error.jade index.jade layout.jade app.js list.jade noteapp.css style.css

```
1 | .form-group
2 |   label(for="title") Title
3 |   input#title.form-control(name="title", type="text", value=note.title)
4 | .form-group
5 |   label(for="desc") Description
6 |   input#desc.form-control(name="desc", type="desc", value=note.desc)
```

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Line 1, Column 1 Tab Size: 4 Plain Text

Index.jade

C:\Users\cggpa\cpai1_a20355489_project\notes\views\index.jade - Sublime Text 2 (UNREGISTERED)

```
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```

api.js notes.js add.jade edit.jade editform.jade error.jade index.jade layout.jade app.js list.jade noteapp.css style.css

index.jade

```
1 | extends layout
2 |
3 | block content
4 |   h1= title
5 |   p Welcome to #{title}
6 |   p
7 |     a.btn.btn-default(href="/notes/") View Notes
8 |
```

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Line 1, Column 1 Tab Size: 4 Plain Text

Layout.jade

C:\Users\cggpa\cpai1_a20355489_project\notes\views\layout.jade - Sublime Text 2 (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
```

api.js notes.js add.jade edit.jade editform.jade error.jade index.jade layout.jade app.js list.jade noteapp.css style.css

layout.jade

```
1 | doctype html
2 | html
3 |   head
4 |     title= title
5 |     link(rel='stylesheet', href='/stylesheets/bootstrap.min.css')
6 |     link(rel='stylesheet', href='/stylesheets/bootstrap-theme.min.css')
7 |     link(rel='stylesheet', href='/stylesheets/style.css')
8 |   body
9 |     block content
10|     script(type="text/javascript", src="/javascripts/jquery-1.12.2.min.js")
11|     script(type="text/javascript", src="/javascripts/main.js")
```

Find Find Prev Find All

Line 1, Column 1 Tab Size: 4 Plain Text

List.jade

```

1 extend layout
2
3 block content
4   h1 Note App
5   h3 Here is a list of your notes.
6   p
7     a#delete.btn.btn-default(href="#") Delete
8     |
9     a#add.btn.btn-default(href="/notes/add") Add new
10    table.table
11      thead
12        tr
13          th
14          th Title
15          th Description
16
17      tbody
18      if !notes.length
19        tr
20          td(colspan=4) You should add a note
21      else
22        each note in notes
23          tr
24            td
25              input(type="checkbox", id=note.id)
26            td
27              a(href="/notes/#{note.id}") #{note.title}
28            td #{note.desc}
29            td
30              a(href="/api/notes/#{note.id}") click to view the JSON Data

```

Line 24, Column 15

Route Files:

There are 2 route files:

Node.js:

```

1 var express = require('express');
2 var router = express.Router();
3 var _ = require('underscore');
4 var fs = require('fs');
5
6
7 var notes = [];
8 var dataPath='data.json';
10
11 try {
12   var stats = fs.statSync(dataPath);
13   var dataString = fs.readFileSync(dataPath);
14   notes = JSON.parse(dataString);
15 } catch (e) {
16   console.log('Data File Does Not Exist... Creating Empty File...');
17   fs.writeFileSync(dataPath, JSON.stringify([]));
18 }
19 function lookupContact(note_id) {
20   return _.find(notes, function(c) {
21     return c.id == parseInt(note_id);
22   });
23 }
24
25 function findMaxId() {
26   return _.max(notes, function(note) {
27     return note.id;
28   });
29 }

```

Line 13, Column 48

C:\Users\cggpa\cpai1_a20355489_project\notes\routes\notes.js - Sublime Text 2 (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
api.js x notes.js x add.jade x edit.jade x error.jade x index.jade x layout.jade x app.js x list.jade x noteapp.css x style.css x

31 router.get('/', function(req, res, next) {
32   res.render('list', {notes: notes});
33 });
34
35
36 router.get('/api', function(req, res, next) {
37   //res.render('list', {contacts: contacts});
38   res.json(notes);
39 });
40 });
41
42
43
44 router.post('/', function(req, res, next) {
45   console.log(findMaxId());
46   var new_note_id = (findMaxId()).id + 1;
47   var new_note = {
48     id: new_note_id,
49     title: req.body.title,
50     desc: req.body.desc
51   };
52   notes.push(new_note);
53   console.log(notes);
54   fs.writeFileSync(dataPath, JSON.stringify(notes));
55
56
57   res.redirect('/notes/');
58 });
59 });
60

Aa " " U O □ contact Find Find Prev Find All
Line 13, Column 48
Tab Size: 4 JavaScript
```

C:\Users\cggpa\cpai1_a20355489_project\notes\routes\notes.js - Sublime Text 2 (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
api.js x notes.js x add.jade x edit.jade x error.jade x index.jade x layout.jade x app.js x list.jade x noteapp.css x style.css x

60
61 router.get('/add', function(req, res, next) {
62   res.render('add', {note:{}});
63 });
64
65 router.route('/:note_id')
66   .all(function(req, res, next){
67     note_id = req.params.note_id;
68     note = lookupContact(note_id);
69     next();
70   })
71   .get(function(req,res,next){
72     res.render('edit', {note: note});
73   })
74   .post(function(req,res,next){
75     res.send('Post for note ' + note_id);
76   })
77   .put(function(req,res,next){
78     note.title = req.body.title;
79     note.desc = req.body.desc;
80
81     fs.writeFileSync(dataPath, JSON.stringify(notes));
82
83     res.redirect('/notes/');
84   })
85   .delete(function(req,res,next){
86     for(var i=0;i<notes.length;i++){
87       if(notes[i].id==parseInt(note_id)){
88         notes.splice(i,1);
89       }
89     }
89   })
90

Aa " " U O □ contact Find Find Prev Find All
Line 13, Column 48
Tab Size: 4 JavaScript
```

C:\Users\cggpa\cpai1_a20355489.project\notes\routes\notes.js - Sublime Text 2 (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
```

api.js notes.js add.jade edit.jade editform.jade error.jade index.jade layout.jade app.js list.jade noteapp.css style.css

```
86     for(var i=0;i<notes.length;i++){
87         if(notes[i].id==parseInt(note_id)){
88             notes.splice(i,1);
89         }
90     }
91     fs.writeFileSync(dataPath, JSON.stringify(notes));
92     res.send('Delete for notes ' + note_id);
93 });
94
95 module.exports = router;
96
```

Line 13, Column 48

Api.js:

C:\Users\cggpa\cpai1_a20355489.project\notes\routes\api.js - Sublime Text 2 (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
```

api.js notes.js add.jade edit.jade editform.jade error.jade index.jade layout.jade app.js list.jade noteapp.css style.css

```
1 var express = require('express');
2 var router = express.Router();
3 var _ = require('underscore');
4 var fs=require('fs');
5
6 var notes = [];
7 var dataPath="data.json";
8
9 try {
10     var stats = fs.statSync(dataPath);
11     var dataString = fs.readFileSync(dataPath);
12     notes = JSON.parse(dataString);
13 } catch (e) {
14     console.log('Data File Does Not Exist... Creating Empty File...');
15     fs.writeFileSync(dataPath, JSON.stringify([]));
16 }
17 function lookupContact(note_id) {
18     return _.find(notes, function(c) {
19         return c.id == parseInt(note_id);
20     });
21 }
22 router.get('/notes', function(req, res, next) {
23
24     res.json(notes);
25 });
26
27 router.route('/notes/:note_id')
28 .all(function(req, res, next){
29     note_id = req.params.note_id;
30     note = lookupContact(note_id);
```

Line 21, Column 2

C:\Users\cggpa\cpai1_a20355489.project\notes\routes\api.js • - Sublime Text 2 (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
```

```
api.js notes.js add.jade edit.jade editform.jade error.jade index.jade layout.jade app.js list.jade noteapp.css style.css
```

```
30     note = lookupContact(note_id);
31   next();
32 }
33 .get(function(req,res,next){
34   res.json("read", {note: note});
35 })
36
37 module.exports = router;
38
```

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Line 21, Column 2

Spaces: 2 JavaScript 9:07 PM 4/30/2016

Ask me anything

Data.Json file:

C:\Users\cggpa\cpai1_a20355489.project\notes\data.json • - Sublime Text 2 (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
```

```
api.js data.json notes.js style.css
```

```
1 [{"id":1,"title":"Reminder 1","desc":"college Tomorrow"}, {"id":2,"title":"reminder 2","desc":"assignment submission"}, {"id":3,"title":"Re
```

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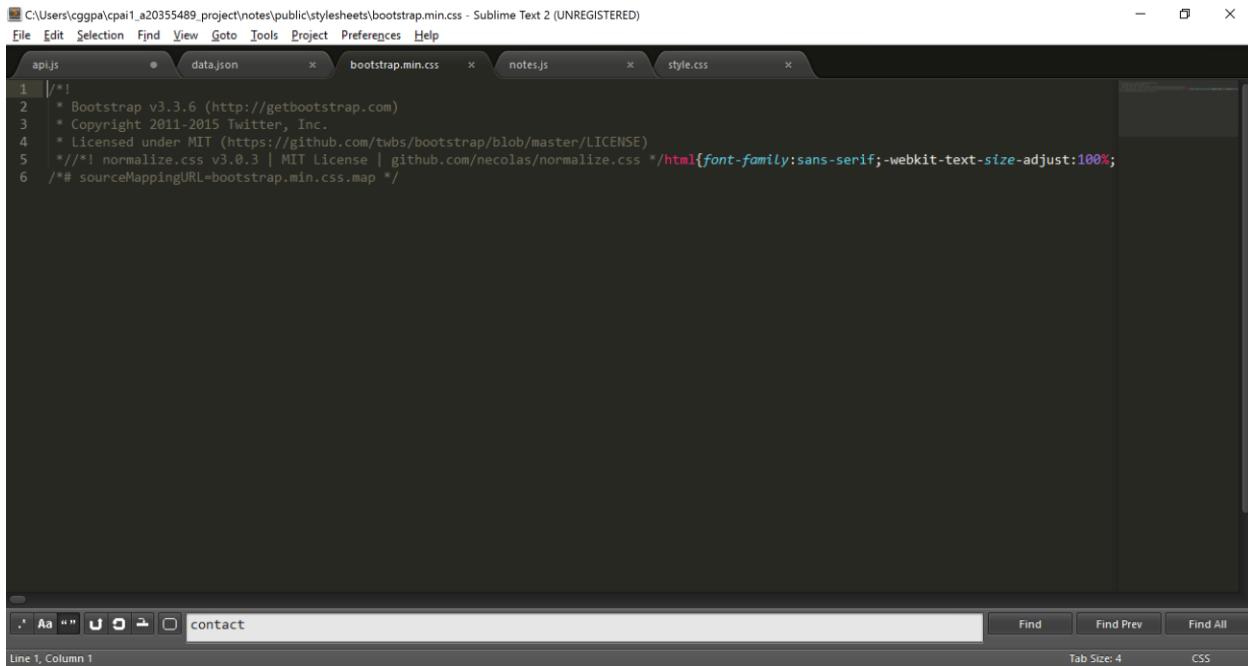
Line 1, Column 1

Tab Size: 4 JSON

Public file:

Style Sheets

Bootstrap.min



C:\Users\cggpa\cpai1_a20355489_project\notes\public\stylesheets\bootstrap.min.css - Sublime Text 2 (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

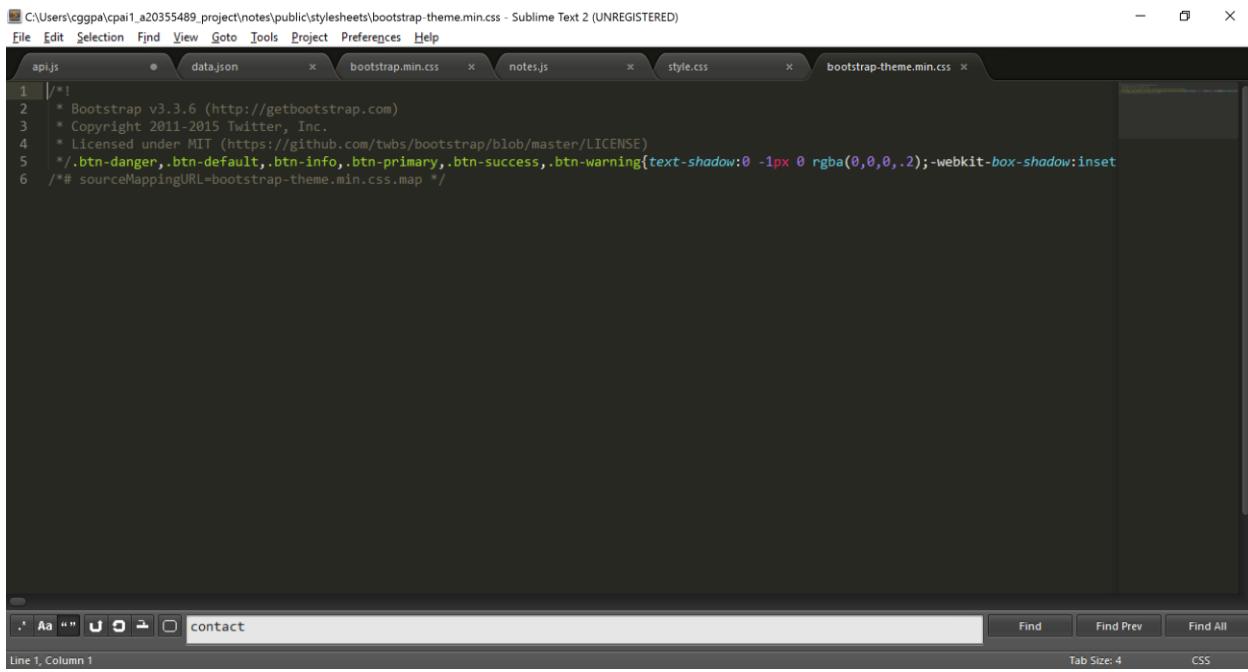
api.js data.json bootstrap.min.css notes.js style.css

```
1 /*!
2  * Bootstrap v3.3.6 (http://getbootstrap.com)
3  * Copyright 2011-2015 Twitter, Inc.
4  * Licensed under MIT (https://github.com/twbs/bootstrap/blob/master/LICENSE)
5  * // normalize.css v3.0.3 | MIT License | github.com/necolas/normalize.css */
6  /*# sourceMappingURL=bootstrap.min.css.map */
```

Find Find Prev Find All

Line 1, Column 1 Tab Size: 4 CSS

Bootstrap.theme.min



C:\Users\cggpa\cpai1_a20355489_project\notes\public\stylesheets\bootstrap-theme.min.css - Sublime Text 2 (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

api.js data.json bootstrap.min.css notes.js style.css bootstrap-theme.min.css

```
1 /*!
2  * Bootstrap v3.3.6 (http://getbootstrap.com)
3  * Copyright 2011-2015 Twitter, Inc.
4  * Licensed under MIT (https://github.com/twbs/bootstrap/blob/master/LICENSE)
5  * ./btn-danger,btn-default,btn-info,btn-primary,btn-success,btn-warning{text-shadow:0 -1px 0 rgba(0,0,0,.2);-webkit-box-shadow:inset
6  /*# sourceMappingURL=bootstrap-theme.min.css.map */
```

Find Find Prev Find All

Line 1, Column 1 Tab Size: 4 CSS

Style:

C:\Users\cgppa\cpai1_a20355489_project\notes\public\stylesheets\style.css - Sublime Text 2 (UNREGISTERED)

```

1 body {
2   padding: 50px;
3   font: 14px "Lucida Grande", Helvetica, Arial, sans-serif;
4   background-color:#CC3366;
5 }
6
7 a {
8   color: #00B7FF;
9 }
10 h1 {
11
12   font-size: 100px;
13   font-weight: 400;
14   color:#FFFF00;
15   font-family: 'Times New Roman',Times, serif;
16   font-style: oblique;
17 }
18
19 h3 {
20
21
22   font-size:30px;
23   font-weight: 400;
24   color:#FFF00;
25   font-family: 'Times New Roman',Times, serif;
26   font-style: italic;
27 }
28
29

```

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25 characters selected Tab Size: 4 CSS

Javascript

Main.js

C:\Users\cgppa\cpai1_a20355489_project\notes\public\javascripts\main.js - Sublime Text 2 (UNREGISTERED)

```

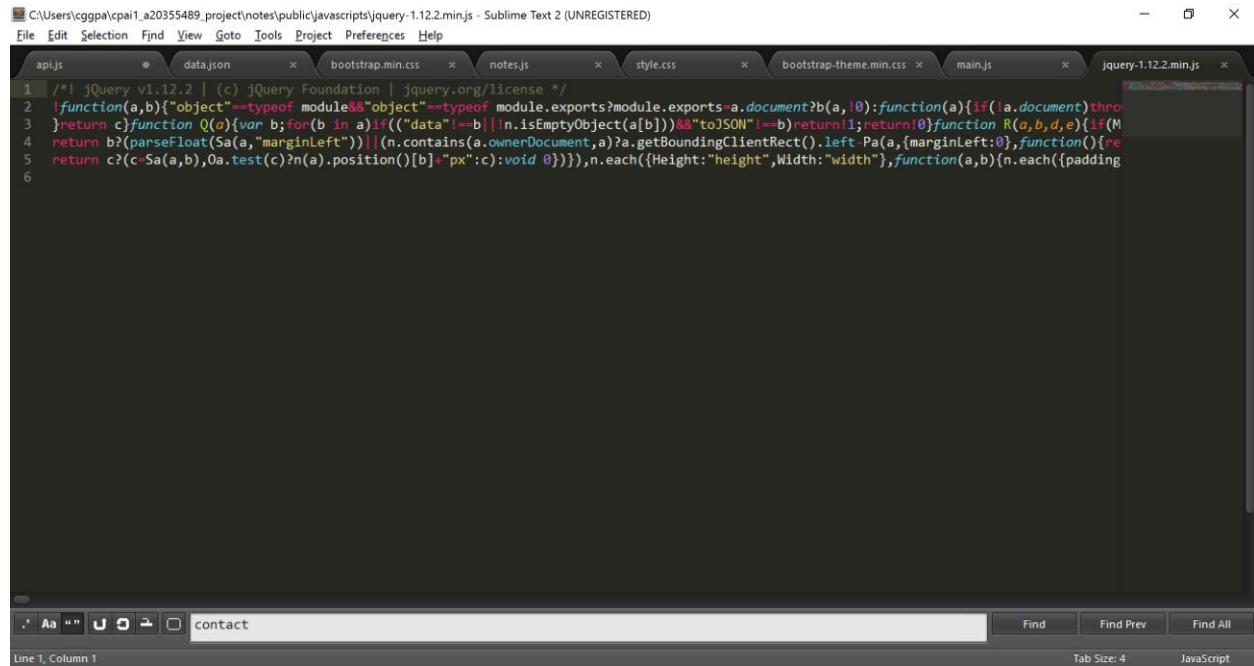
1 $(document).ready(function(){
2
3   $('#delete').on('click', function(e){
4     e.preventDefault();
5
6     $('input:checked').each(function(index, value){
7       var val = $(this).attr('id');
8       console.log($(this));
9       var $thisInput = $(this);
10
11       $.ajax({
12         url:'notes/'+val,
13         type:'DELETE'
14       }).done(function(){
15         $thisInput.parents('tr').remove();
16       });
17
18     });
19   });
20 });
21
22

```

Find Find Prev Find All

Line 1, Column 1: Detect Indentation: Setting indentation to 2 spaces Spaces: 2 JavaScript

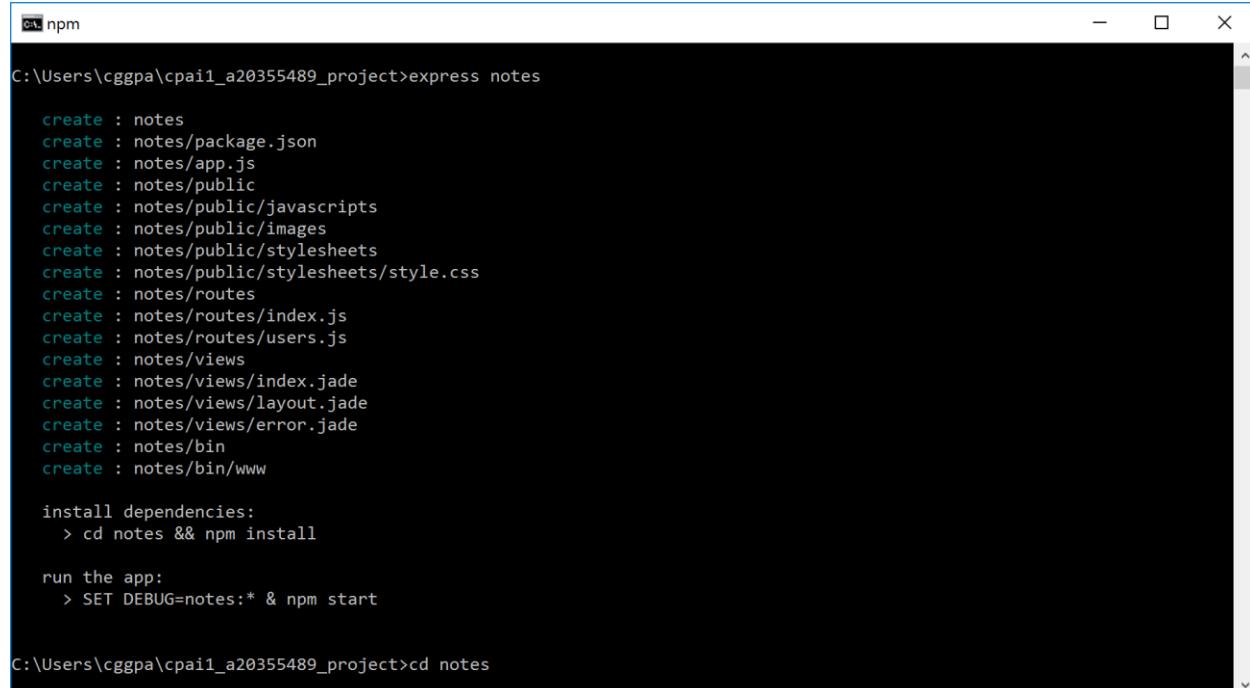
Jquery-12.2.min



```
/*! jQuery v1.12.2 | (c) jQuery Foundation | jquery.org/license */
(function(a,b){"object"==typeof module&&"object"==typeof module.exports?a.document?b(a,!0):function(a){if(!a.document)throw new Error("jQuery requires a window with a document");a.jQuery=a.$=b;a.jQuery.fn=a.$(a)}:b(a)})(this,window.jQuery);var c=function(a){var b;for(b in a)if(("data"!=b)||!n.isEmptyObject(a[b]))&&"toJSON"!=b)return!1;return!0};function d(a,b,c){if("number"==typeof a){var d=e(a);d+=c||0;return d}if("string"==typeof a){var e=d(a);e+=c||0;return e}if("array"==typeof a){var f=a.map(d);f+=c||0;return f}if("object"==typeof a){var g=a;for(var h in g)g[h]=d(g[h]);g+=c||0;return g}}function e(a){var b=a+"px";return a+"px"}function f(a){var b=a.getBoundingClientRect();return{left:b.left,paddingLeft:a.offsetLeft,top:b.top,paddingTop:a.offsetTop,right:b.right,paddingRight:a.offsetRight,bottom:b.bottom,paddingBottom:a.offsetTop}}function g(a,b){var c=a.getClientRects();b=c.length?c[0].width:c[0].width+document.documentElement.clientWidth;return b}function h(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function i(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function j(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function k(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function l(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function m(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function n(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function o(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function p(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function q(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function r(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function s(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function t(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function u(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function v(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function w(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function x(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function y(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function z(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function A(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function B(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function C(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function D(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function E(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function F(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function G(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function H(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function I(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function J(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function K(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function L(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function M(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function N(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function O(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function P(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function Q(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function R(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function S(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function T(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function U(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function V(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function W(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function X(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function Y(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function Z(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function a(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function b(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function c(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function d(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function e(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function f(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function g(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function h(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function i(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function j(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function k(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function l(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function m(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function n(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function o(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function p(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function q(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function r(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function s(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function t(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function u(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function v(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function w(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function x(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function y(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}function z(a){var b=a.offsetWidth;c=a.offsetHeight;return{width:b,height:c}}
```

Working of the Application:

Step 1: Run the commands in the Node.JS command prompt:



```
ca npm
C:\Users\cgppa\cpai1_a20355489_project>express notes

  create : notes
  create : notes/package.json
  create : notes/app.js
  create : notes/public
  create : notes/public/javascripts
  create : notes/public/images
  create : notes/public/stylesheets
  create : notes/public/stylesheets/style.css
  create : notes/routes
  create : notes/routes/index.js
  create : notes/routes/users.js
  create : notes/views
  create : notes/views/index.jade
  create : notes/views/layout.jade
  create : notes/views/error.jade
  create : notes/bin
  create : notes/bin/www

  install dependencies:
    > cd notes && npm install

  run the app:
    > SET DEBUG=notes:* & npm start

C:\Users\cgppa\cpai1_a20355489_project>cd notes
```

To run Use npm start.:

```
npm ERR! Failed at the notes@0.0.0 start script 'node ./bin/www'.
npm ERR! This is most likely a problem with the notes package,
npm ERR! not with npm itself.
npm ERR! Tell the author that this fails on your system:
npm ERR!   node ./bin/www
npm ERR! You can get information on how to open an issue for this project with:
npm ERR!   npm bugs notes
npm ERR! Or if that isn't available, you can get their info via:
npm ERR!
npm ERR!   npm owner ls notes
npm ERR! There is likely additional logging output above.

npm ERR! Please include the following file with any support request:
npm ERR!   C:\Users\cgppa\cpai1_a20355489_project\notes\npm-debug.log

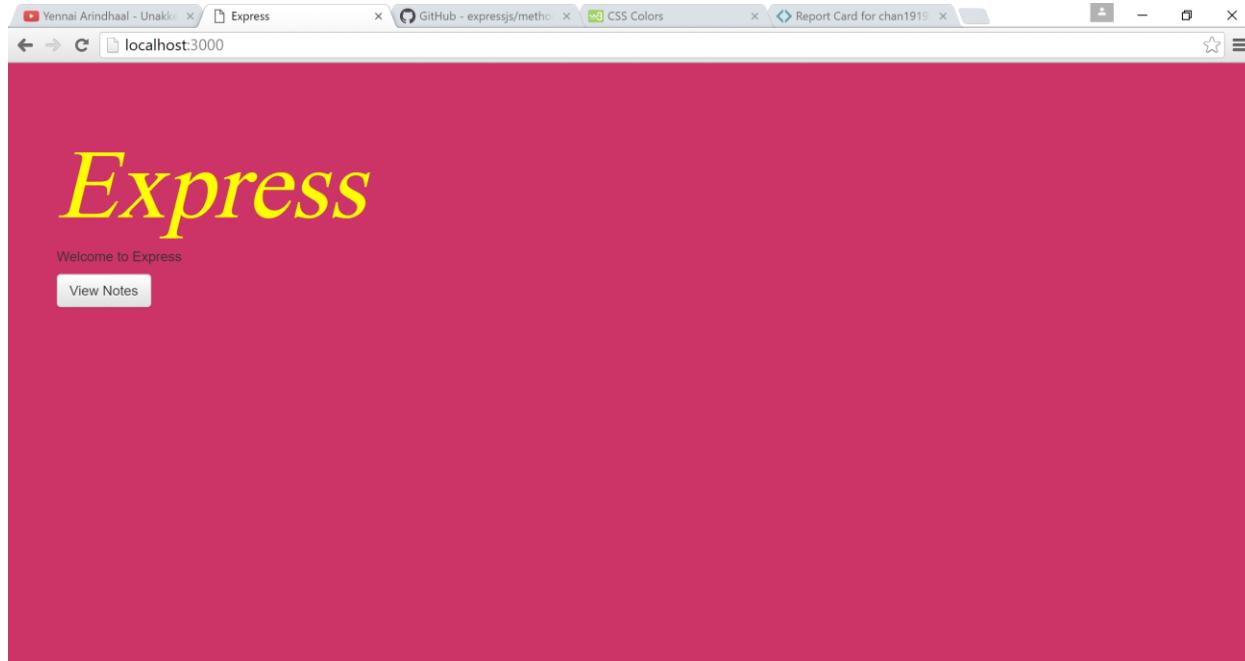
C:\Users\cgppa\cpai1_a20355489_project\notes>npm start

> notes@0.0.0 start C:\Users\cgppa\cpai1_a20355489_project\notes
> node ./bin/www

GET / 304 567.029 ms -
GET /stylesheets/bootstrap.min.css 404 70.164 ms - 1530
GET /stylesheets/bootstrap-theme.min.css 404 121.814 ms - 1530
GET /stylesheets/style.css 304 5.648 ms -
GET /javascripts/jquery-1.12.2.min.js 304 8.640 ms -
GET /javascripts/main.js 304 14.221 ms -
GET /notes/ 200 101.954 ms - 862
GET /stylesheets/bootstrap.min.css 404 37.918 ms - 1530
GET /stylesheets/bootstrap-theme.min.css 404 70.045 ms - 1530
GET /stylesheets/style.css 304 72.917 ms -
GET /javascripts/jquery-1.12.2.min.js 304 75.795 ms -
GET /javascripts/main.js 304 85.334 ms -
GET /notes/1 200 45.923 ms - 1055
GET /stylesheets/bootstrap.min.css 404 31.856 ms - 1530
GET /stylesheets/bootstrap-theme.min.css 404 58.488 ms - 1530
GET /stylesheets/style.css 304 65.416 ms -
GET /javascripts/jquery-1.12.2.min.js 304 70.222 ms -
GET /javascripts/main.js 304 73.378 ms -
PUT /notes/1?_method=put 302 37.817 ms - 58
```

After Running the file:

Link: localhost:300



Click on View Note:

Note App		
Here is a list of your notes.		
Delete Add new		
Title	Description	
Reminder 1	college Tomorrow	click to view the JSON Data
reminder 2	assignment submission	click to view the JSON Data
Reminder 3	Exam tomorrow	click to view the JSON Data
reminder 5	book tickets	click to view the JSON Data
reminder 4	work at 8	click to view the JSON Data
reminder 6	register to the course	click to view the JSON Data

Creating Remider 7:

Add a NOTE		
Title	<input type="text" value="reminder 7"/>	
Description	<input type="text" value="wash cloths"/>	
<input type="button" value="Add note"/>		

Note got added to the table:

Note App

Here is a list of your notes.

Delete Add new

Title	Description	Action
Reminder 1	college Tomorrow	click to view the JSON Data
reminder 2	assignment submission	click to view the JSON Data
Reminder 3	Exam tomorrow	click to view the JSON Data
reminder 5	book tickets	click to view the JSON Data
reminder 4	work at 8	click to view the JSON Data
reminder 6	register to the course	click to view the JSON Data
reminder 7	wash cloths	click to view the JSON Data

localhost:3000/notes/7

To Edit click on the Reminder 7 Link:

Edit a NOTE

Title
reminder 7

Description
wash cloths

Edit Note

Edited the Reminder 7 note:

Edit a NOTE

Title
reminder 7

Description
wash many cloths

Edit Note

Reminder 7 got edited:

Note App

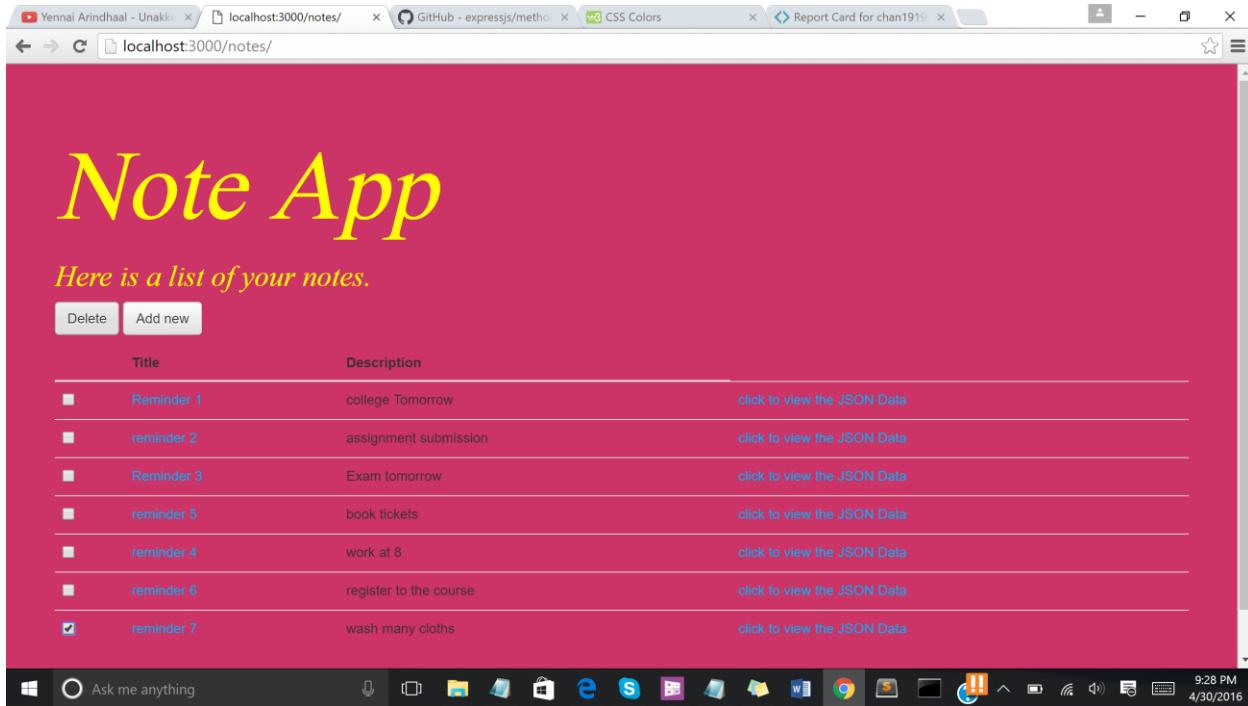
Here is a list of your notes.

Title	Description	
Reminder 1	college Tomorrow	click to view the JSON Data
reminder 2	assignment submission	click to view the JSON Data
Reminder 3	Exam tomorrow	click to view the JSON Data
reminder 5	book tickets	click to view the JSON Data
reminder 4	work at 8	click to view the JSON Data
reminder 6	register to the course	click to view the JSON Data
reminder 7	wash many cloths	click to view the JSON Data

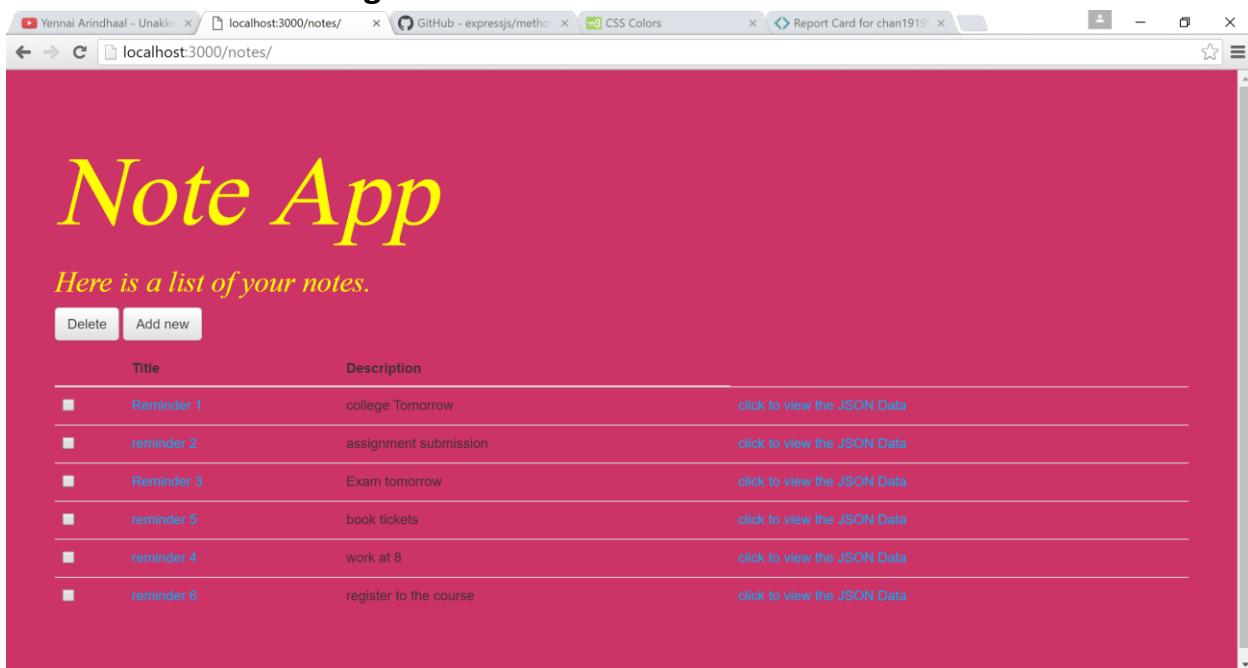
localhost:3000/notes/7

To delete the Reminder 7:

Check the box and click on delete button:



The note “Reminder 7 got deleted”



To view the json for every reminder:

Click on the link “Click to view JSON date”



A screenshot of a web browser window. The address bar shows the URL `localhost:3000/api/notes/1`. The main content area displays a single JSON object:

```
{"note": {"id": 1, "title": "Reminder 1", "desc": "college Tomorrow"}}
```

To view all the JSON data together:

Link:

<http://localhost:3000/notes/api>

All the data are displayed in JSON data Format:



A screenshot of a web browser window. The address bar shows the URL `localhost:3000/notes/api`. The main content area displays an array of six JSON objects:

```
[{"id": 1, "title": "Reminder 1", "desc": "college Tomorrow"}, {"id": 2, "title": "reminder 2", "desc": "assignment submission"}, {"id": 3, "title": "Reminder 3", "desc": "Exam tomorrow"}, {"id": 4, "title": "reminder 5", "desc": "book tickets"}, {"id": 5, "title": "reminder 4", "desc": "work at 8"}, {"id": 6, "title": "reminder 6", "desc": "register to the course"}]
```

Files created to access the CAR Link using Node Js:

Cars.js:

The screenshot shows a Sublime Text 2 window with the title bar "C:\Users\cggpa\cpai1_a20355489.project\notes\routes\cars.js - Sublime Text 2 (UNREGISTERED)". The menu bar includes File, Edit, Selection, Find, Goto, Tools, Project, Preferences, and Help. The code editor displays the content of the cars.js file, which is a Node.js script using Express and underscore modules. It reads data from a JSON file, handles requests for car lists, and provides an API endpoint. The status bar at the bottom shows "Line 61, Column 18", "Tab Size: 4", and "JavaScript".

```
1 var express = require('express');
2 var router = express.Router();
3 var _ = require('underscore');
4 var fs = require('fs');
5
6
7 var cars = [];
8 var dataPath = 'data2.json';
9
10 try {
11   var stats = fs.statSync(dataPath);
12   var dataString = fs.readFileSync(dataPath);
13   cars = JSON.parse(dataString);
14 } catch (e) {
15   console.log('Data File Does Not Exist... Creating Empty File...');
16   fs.writeFileSync(dataPath, JSON.stringify([]));
17 }
18
19 function lookupContact(car_id) {
20   return _.find(cars, function(c) {
21     return c.id == parseInt(car_id);
22   });
23 }
24
25 function findMaxId() {
26   return _.max(cars, function(car) {
27     return car.id;
28   });
29 }
30
31 router.get('/', function(req, res, next) {
32   res.render('list2', {cars: cars});
33 });
34
35
36 router.get('/api', function(req, res, next) {

```

C:\Users\cggpa\cpai1.a20355489.project\notes\routes\cars.js - Sublime Text 2 (UNREGISTERED)

```

app.js      cars.js
36 router.get('/api', function(req, res, next) {
37   //res.render('list', {contacts: contacts});
38   res.json(cars);
39 });
40 });
41
42
43
44 router.post('/', function(req, res, next) {
45   console.log(findMaxId());
46   var new_car_id = (findMaxId()).id + 1;
47   var new_car = {
48     id: new_car_id,
49     name: req.body.name,
50     value: req.body.value
51   };
52   cars.push(new_car);
53   console.log(cars);
54   fs.writeFileSync(dataPath, JSON.stringify(cars));
55
56
57   res.redirect('/cars/');
58 });
59 });
60
61 router.get('/add2', function(req, res, next) {
62   res.render('add2', {car:{}});
63 });
64
65 router.route('/:car_id')
66   .all(function(req, res, next){
67     car_id = req.params.car_id;
68     car = lookupContact(car_id);
69     next();
70   })
71   .get(function(req,res,next){

```

Line 61, Column 18

C:\Users\cggpa\cpai1.a20355489.project\notes\routes\cars.js - Sublime Text 2 (UNREGISTERED)

```

app.js      cars.js
68   car = lookupContact(car_id);
69   next();
70 }
71 .get(function(req,res,next){
72   res.render('edit2', {car: car});
73 })
74 .post(function(req,res,next){
75   res.send('Post for car ' + car_id);
76 })
77 .put(function(req,res,next){
78   car.name = req.body.name;
79   car.value = req.body.value;
80
81   fs.writeFileSync(dataPath, JSON.stringify(cars));
82
83   res.redirect('/cars/');
84 })
85 .delete(function(req,res,next){
86   for(var i=0;i<cars.length;i++){
87     if(cars[i].id==parseInt(car_id)){
88       cars.splice(i,1);
89     }
90   }
91   fs.writeFileSync(dataPath, JSON.stringify(cars));
92   res.send('Delete for cars ' + car_id);
93 });
94
95 module.exports = router;
96

```

Line 61, Column 18

Add2.jade

C:\Users\cggpa\cpai1_a20355489_project\notes\views\add2.jade - Sublime Text 2 (UNREGISTERED)

```
1 | extends layout
2 |
3 | block content
4 |   .row
5 |     .col-md-6
6 |       h1 Add a CAR
7 |       form(role="form", method="post", action="/cars/")
8 |         include editform2
9 |         button.btn.btn-primary(type="submit") Add car
```

File Edit Selection Find View Goto Tools Project Preferences Help

app.js list2.jade editform2.jade add2.jade edit2.jade index2.jade cars.js

note

Find Find Prev Find All

Line 1, Column 1 Tab Size: 4 Plain Text

Edit2.jade

C:\Users\cggpa\cpai1_a20355489_project\notes\views\edit2.jade - Sublime Text 2 (UNREGISTERED)

```
1 | extends layout
2 |
3 | block content
4 |   .row
5 |     .col-md-6
6 |       h1 Edit a CAR
7 |       form(role="form", method="post", action="/cars/#{{car.id}}?_method=put")
8 |         include editform2
9 |         button.btn.btn-primary(type="submit") Edit Car
```

File Edit Selection Find View Goto Tools Project Preferences Help

app.js list2.jade editform2.jade add2.jade edit2.jade index2.jade cars.js

note

Find Find Prev Find All

Line 1, Column 1 Tab Size: 4 Plain Text

Editform2.jade

C:\Users\cggpa\cpai1_a20355489_project\notes\views\editform2.jade - Sublime Text 2 (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
app.js      x  list2.jade      x  editform2.jade      x  edit2.jade      x  index2.jade      x  cars.js      x
C:\Users\cggpa\cpai1_a20355489_project\notes\views\editform2.jade
```

```
1 .form-group
2   label(for="name") Car Name
3   input#title.form-control(name="name", type="text", value=car.name)
4 .form-group
5   label(for="value") Car Value In Dollars
6   input#desc.form-control(name="value", type="number", value=car.value)
```

note

Find Find Prev Find All

Line 5, Column 42

Tab Size: 4 Plain Text

List2.jade

C:\Users\cggpa\cpai1_a20355489_project\notes\views\list2.jade - Sublime Text 2 (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
app.js      x  list2.jade      x  editform2.jade      x  edit2.jade      x  index2.jade      x  cars.js      x
```

```
1 extend layout
2
3 block content
4   h1 Car
5   h3 Here is a list of your car.
6   p
7     a#delete.btn.btn-default(href="#") Delete
8     |
9     a#add.btn.btn-default(href="/cars/add2") Add new
10    table.table
11      thead
12        tr
13          th
14            th Name
15            th Value
16        tbody
17        if !cars.length
18          tr
19            td(colspan=4) You should add a car
20        else
21          each car in cars
22            tr
23              td
24                input(type="checkbox", id=car.id)
25              td
26                a(href="/cars/#{car.id}") #{car.name}
27                td #[car.value]
```

note

Find Find Prev Find All

Line 1, Column 1

Spaces: 2 Plain Text

Index2.jade

C:\Users\cggpa\cpai1_a20355489_project\notes\views\index2.jade - Sublime Text 2 (UNREGISTERED)

```
1 | extends layout
2 |
3 | block content
4 |   h1= title
5 |   p Welcome to #{title}
6 |   P   a.btn.btn-default(href="/Car/") View Cars
7 |
8 |
```

File Edit Selection Find View Goto Tools Project Preferences Help

app.js x list2.jade x editform2.jade x edit2.jade x index2.jade x cars.js x

note

Find Find Prev Find All

Line 1, Column 1 Tab Size: 4 Plain Text

Main2.JS

C:\Users\cggpa\cpai1_a20355489_project\notes\public\javascripts\main2.js - Sublime Text 2 (UNREGISTERED)

```
1 | $(document).ready(function(){
2 |
3 |   $('#delete').on('click', function(e){
4 |     e.preventDefault();
5 |
6 |     $('input:checked').each(function(index, value){
7 |       var val = $(this).attr('id');
8 |       console.log($(this));
9 |       var $thisInput = $(this);
10 |
11 |       $.ajax({
12 |         url: '/cars/' + val,
13 |         type: 'DELETE'
14 |       }).done(function(){
15 |         $thisInput.parents('tr').remove();
16 |       });
17 |
18 |     });
19 |   });
20 |
21 |});
```

File Edit Selection Find View Goto Tools Project Preferences Help

app.js x cars.js x main2.js x

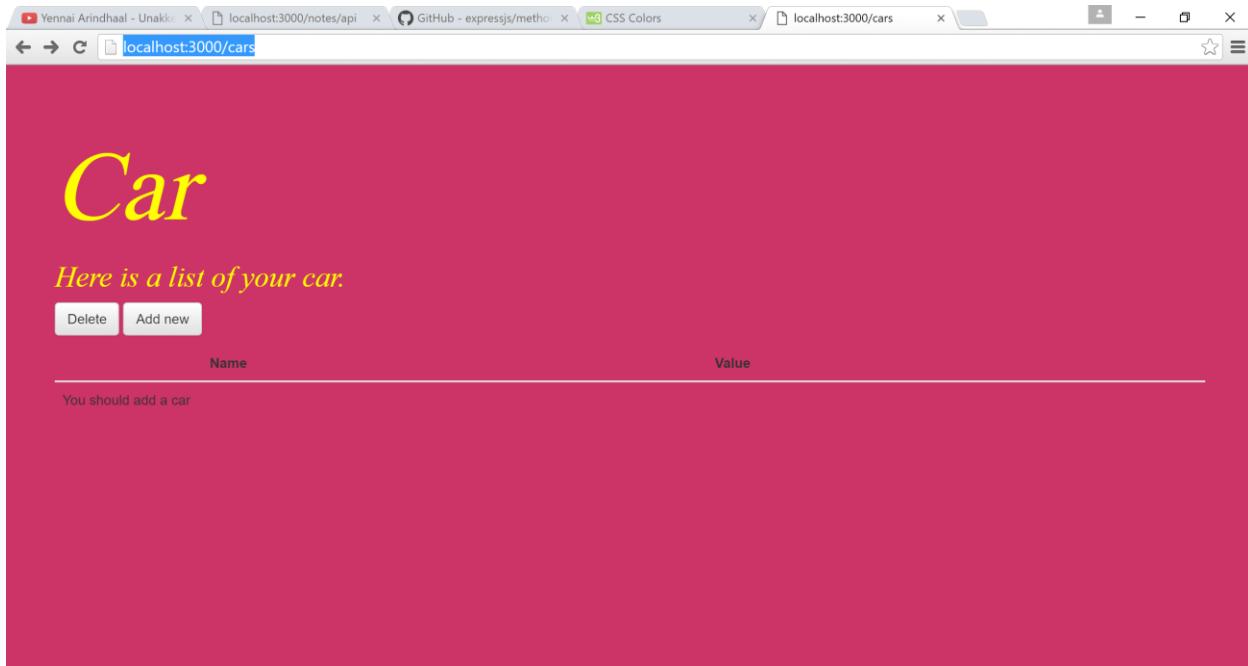
note

Find Find Prev Find All

Line 1, Column 1; Detect Indentation: Setting indentation to 2 spaces Spaces: 2 JavaScript

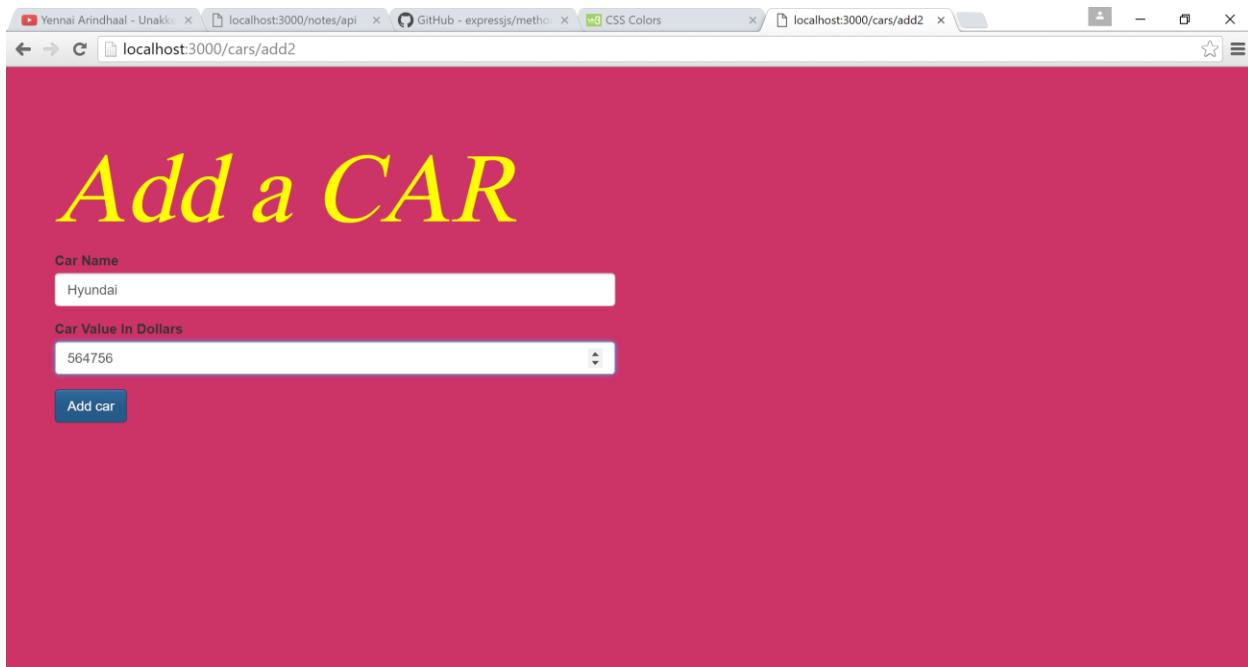
The above api is also created for accessing the CAR link:

<http://localhost:3000/cars>

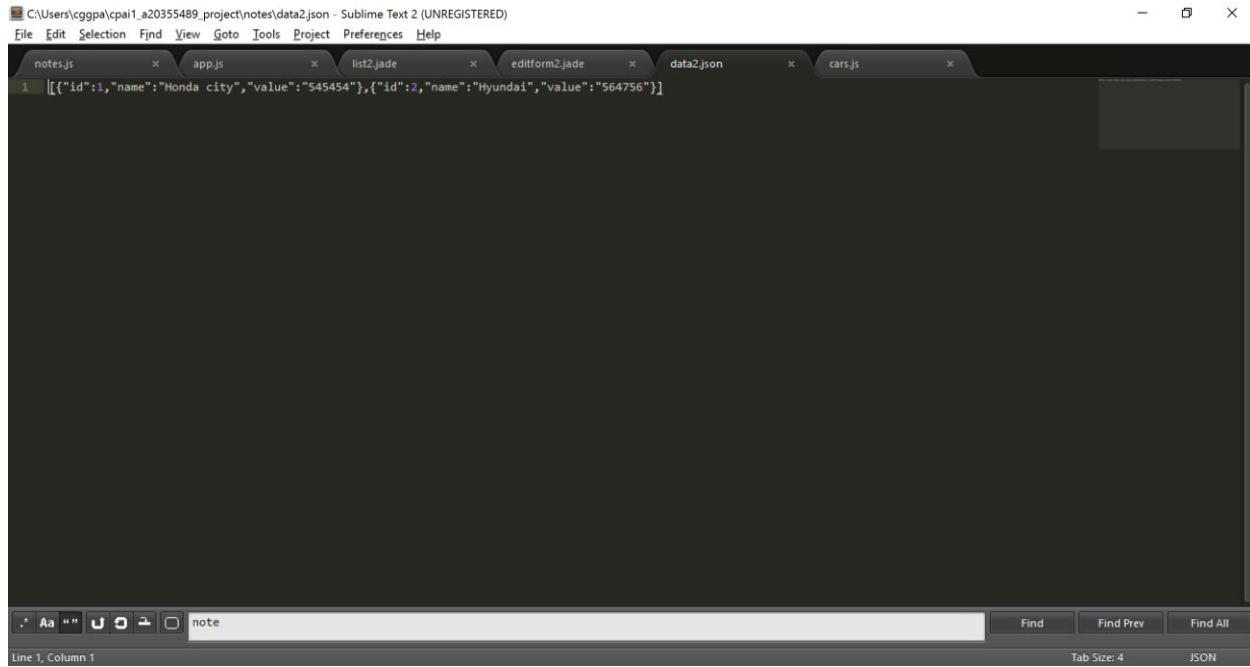


Working of the Car app:

Adding the Car and Car values to the table



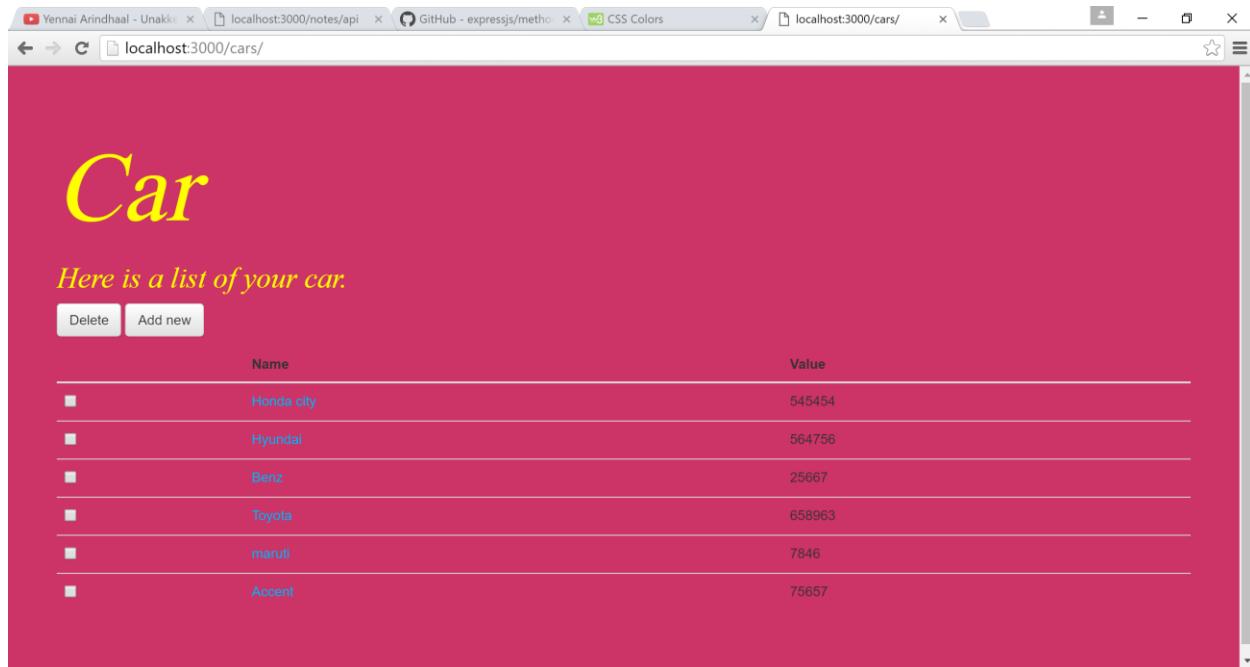
Data2.json file is created:



```
C:\Users\cggpa\cpai1_a20355489.project\notes\data2.json - Sublime Text 2 (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
notes.js x app.js x list2.jade x editform2.jade x data2.json x cars.js x
1 [{"id": 1, "name": "Honda city", "value": "545454"}, {"id": 2, "name": "Hyundai", "value": "564756"}]

Line 1, Column 1
```

Values got entered into the table:



Name	Value
Honda city	545454
Hyundai	564756
Benz	25667
Toyota	658963
maruti	7846
Accent	75657

Editing the Car Name of Honda city:

Car Name
Honda city

Car Value In Dollars
545454

Edit Car

Car name got updated in the table:

Car Name
Honda city 2345

Car Value In Dollars
545454

Edit Car

Table before deleting the car Toyota:

	Name	Value
<input type="checkbox"/>	Honda city 2345	545454
<input type="checkbox"/>	Hyundai	564756
<input type="checkbox"/>	Benz	25667
<input type="checkbox"/>	Toyota	658963
<input type="checkbox"/>	maruti	7846
<input type="checkbox"/>	Accent	75657

	Name	Value
<input type="checkbox"/>	Honda city 2345	545454
<input type="checkbox"/>	Hyundai	564756
<input type="checkbox"/>	Benz	25667
<input checked="" type="checkbox"/>	Toyota	658963
<input type="checkbox"/>	maruti	7846
<input type="checkbox"/>	Accent	75657

The Value got Deleted from the table:

A screenshot of a web browser window titled "localhost:3000/cars/". The page has a yellow header with the word "Car" in large letters. Below it is a sub-header "Here is a list of your car." followed by two buttons: "Delete" and "Add new". A table lists five cars with their names and values. The table has two columns: "Name" and "Value". The data is as follows:

Name	Value
Honda city 2345	545454
Hyundai	564756
Benz	25667
maruti	7846
Accent	75657

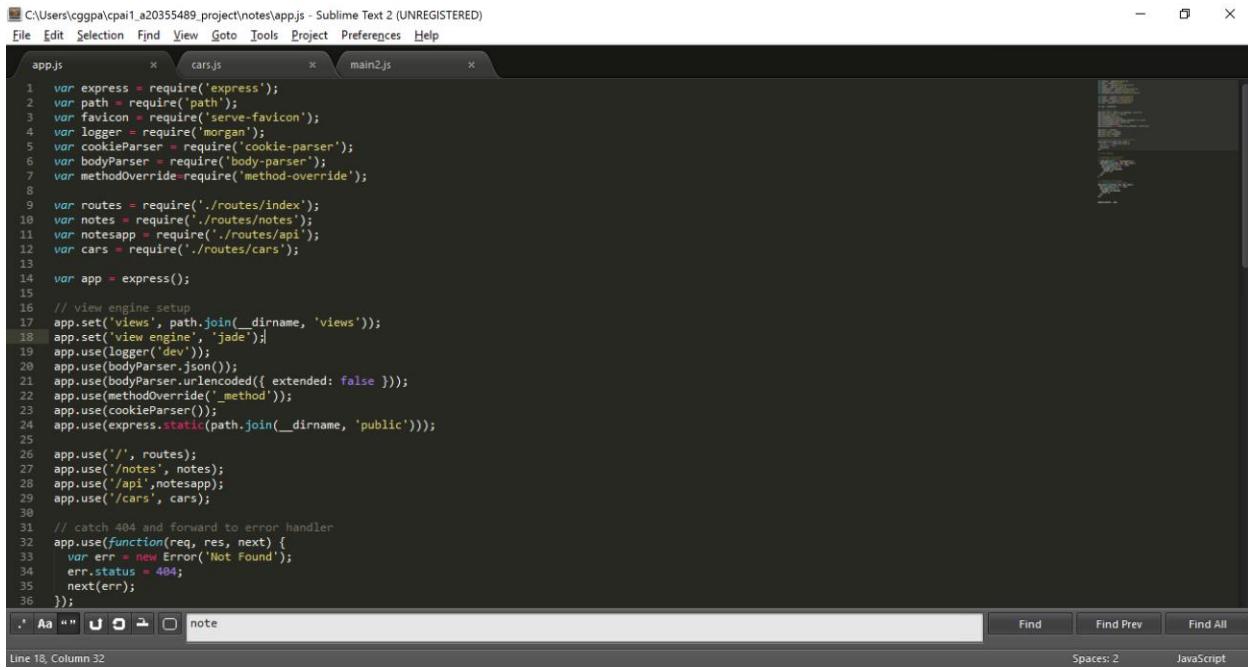
To get the Json data of all the Values that are entered in the table:

Link: <http://localhost:3000/cars/api>

A screenshot of a web browser window titled "localhost:3000/cars/api". The page displays a single line of JSON data:

```
[{"id":1,"name":"Honda city 2345","value":545454}, {"id":2,"name":"Hyundai","value":564756}, {"id":3,"name":"Benz","value":25667}, {"id":5,"name":"maruti","value":7846}, {"id":6,"name":"Accent","value":75657}]
```

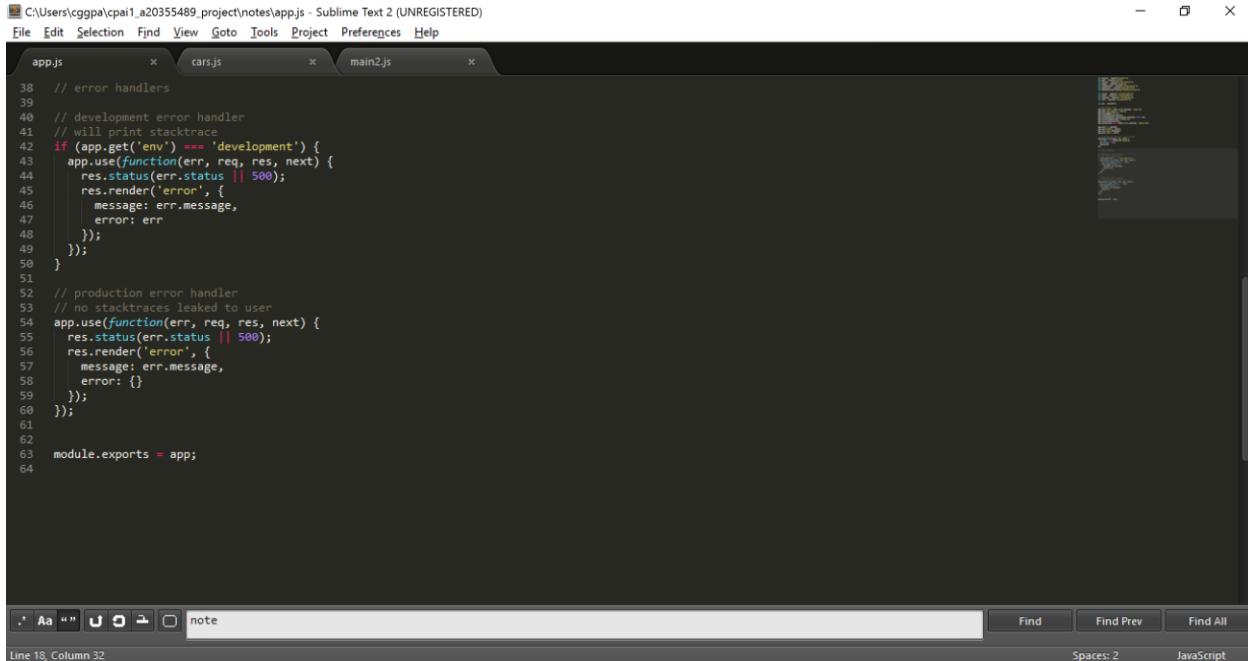
The Three routes are handled by app.js file:



```
C:\Users\cgppa\cpai1_a20355489.project\notes\app.js - Sublime Text 2 (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
app.js x cars.js x main2.js x
1 var express = require('express');
2 var path = require('path');
3 var favicon = require('serve-favicon');
4 var logger = require('morgan');
5 var cookieParser = require('cookie-parser');
6 var bodyParser = require('body-parser');
7 var methodOverride = require('method-override');
8
9 var routes = require('./routes/index');
10 var notes = require('./routes/notes');
11 var notesapp = require('./routes/api');
12 var cars = require('./routes/cars');
13
14 var app = express();
15
16 // view engine setup
17 app.set('views', path.join(__dirname, 'views'));
18 app.set('view engine', 'jade');
19 app.use(logger('dev'));
20 app.use(bodyParser.json());
21 app.use(bodyParser.urlencoded({ extended: false }));
22 app.use(methodOverride('_method'));
23 app.use(cookieParser());
24 app.use(express.static(path.join(__dirname, 'public')));
25
26 app.use('/', routes);
27 app.use('/notes', notes);
28 app.use('/api', notesapp);
29 app.use('/cars', cars);
30
31 // catch 404 and forward to error handler
32 app.use(function(req, res, next) {
33   var err = new Error('Not Found');
34   err.status = 404;
35   next(err);
36 });

```

Line 18, Column 32



```
C:\Users\cgppa\cpai1_a20355489.project\notes\app.js - Sublime Text 2 (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
app.js x cars.js x main2.js x
38 // error handlers
39
40 // development error handler
41 // will print stacktrace
42 if (app.get('env') === 'development') {
43   app.use(function(err, req, res, next) {
44     res.status(err.status || 500);
45     res.render('error', {
46       message: err.message,
47       error: err
48     });
49   });
50 }
51
52 // production error handler
53 // no stacktraces leaked to user
54 app.use(function(err, req, res, next) {
55   res.status(err.status || 500);
56   res.render('error', {
57     message: err.message,
58     error: {}
59   });
60 }
61
62 module.exports = app;
63
```

Line 18, Column 32