Module 6:Building Node.js Applications using ES6

Demo Document

edureka!



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Dashboard Application Using ES6 And EJS

DEMO Steps:

Step1: Create a package.json file.

```
Avyaans-MacBook-Pro:dashboard avi$ npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.
See `npm help json` for definitive documentation on these fields and exactly what they do.  \label{eq:constraint}
Use `npm install <pkg>` afterwards to install a package and save it as a dependency in the package.json file.
Press ^C at any time to quit.
package name: (dashboard) dashboard
version: (1.0.0)
|description: Dashboard with Es6
|entry point: (index.js)
|test command:
|git repository:
|keywords: NodeJS Ejs
author: Edureka
license: (ISC)
About to write to /Users/avi/Desktop/folder/EdurekaApp/module6/dashboard/package.json:
   "name": "dashboard",
   "version":
   "version": "1.0.0",
"description": "Dashboard with Es6",
"main": "index.js",
   "scripts": {
   "test": "echo \"Error: no test specified\" && exit 1"
   "keywords": [
"NodeJS",
"Ejs"
   "author": "Edureka",
"license": "ISC"
Is this OK? (yes) yes
```

Step 2: Install express body-parse ejs and mongodb to create dashboard app.

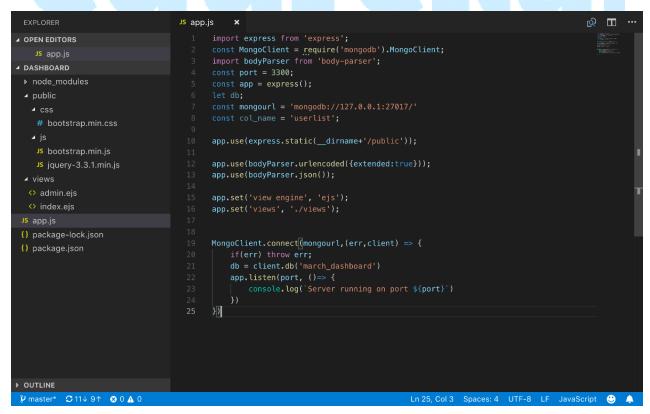
```
Avyaans-MacBook-Pro:dashboard avi$ npm install express body-parser ejs mongodb npm notice created a lockfile as package-lock.json. You should commit this file. npm WARN dashboard@1.0.0 No repository field.

+ ejs@2.6.1
+ mongodb@3.2.5
+ body-parser@1.19.0
+ express@4.17.0
added 60 packages from 45 contributors and audited 170 packages in 5.002s found 0 vulnerabilities
```

Step 3: Create the folder structure as shown below. Here Public folder is for static content and View for EJS and rest is app code.



Step 4: Add connection string for mongodb, body parser as middleware and set EJS as view engine. At last we connect mongo with respective database(Do start the mongoDB server).



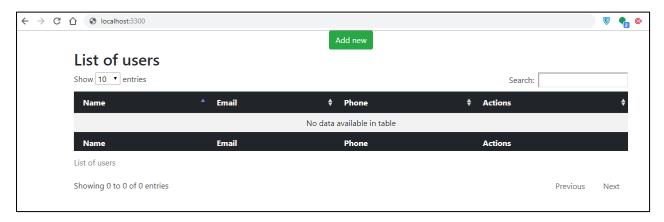
Step 5: Create a basic index.ejs file for view section that is connected with Css and bootstrap of local folder.

Step 6: Use Table of HTML and add script of datatable.js, use es6 syntax on line 29 to iterate over data.

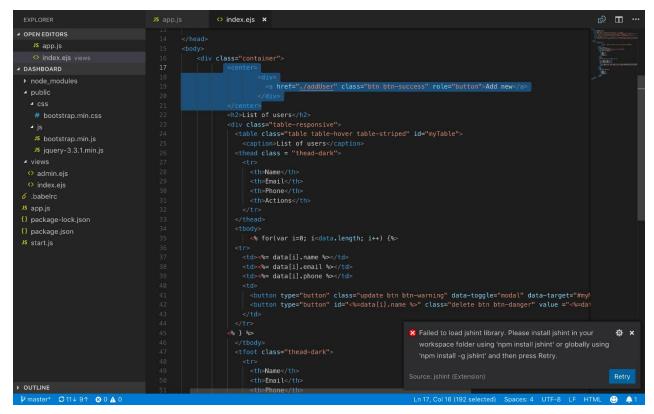
```
# CONTROLOGY

#
```

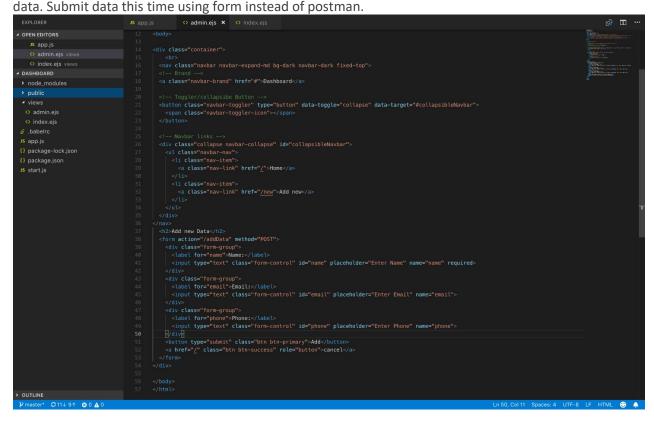
Step 7: Test your app on Browser.



Step 8: In EJS file add one anchor tag to open form, in order to take inputs from user and also to add new user.



Step 9: Create a new file admin.ejs and add HTML form and post path. Pass the post route to submit the

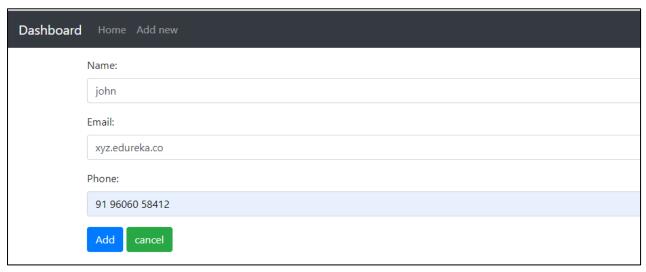


Step 10: Add a get route to render admin page using res.render and file name.

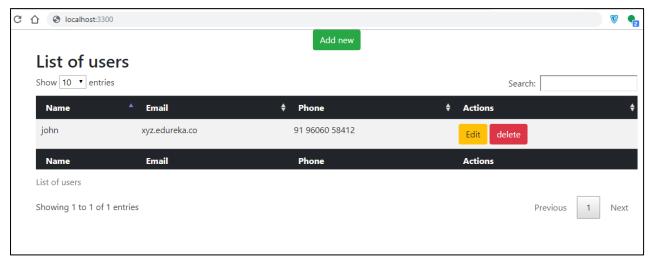
```
JS app.js
                                                                                                                               <u>ල</u>ි □
■ OPEN EDITORS
    JS app.js
                                           app.use(express.static(__dirname+'/public'));
                                           app.use(bodyParser.urlencoded({extended:true}));
⊿ DASHBOARD
                                           app.use(bodyParser.json());

■ public
                                           app.get('/', (req,res)=>{
   JS bootstrap.min.js
                                               db.collection(col_name).find().toArray((err,result) => {
   JS jquery-3.3.1.min.js
                                                  if(err) throw err;
                                                   var outupt = result;
  admin.ejs
6 .babelrc
Js app.js
{} package-lock.json
                                           app.get('/addUser',(req,res) => {
{} package.json
JS start.js
                                           MongoClient.connect(mongourl,(err,client) => {
                                                   console.log(`Server running on port ${port}`)
OUTLINE
                                                                             Ln 28, Col 1 (85 selected) Spaces: 4 UTF-8 LF JavaScript 😃 🔔
          S11↓9↑ 80 A 0
```

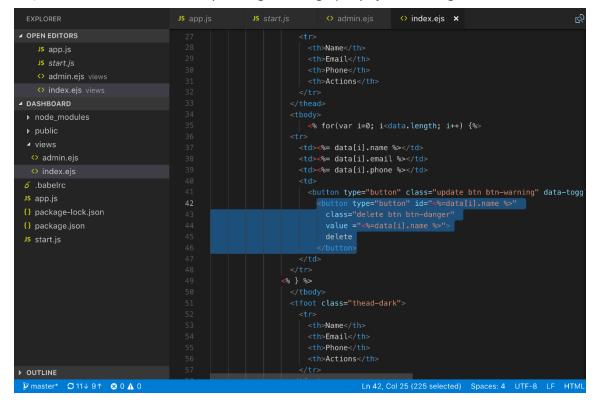
Step 11: Using form you can add new data into database and by clicking add you will send a post call to node app.



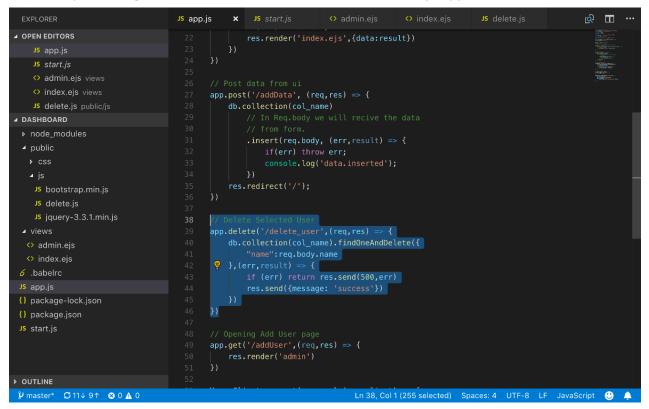
Step 12: You can see the user data in view list and this view list is fetched using Get api.



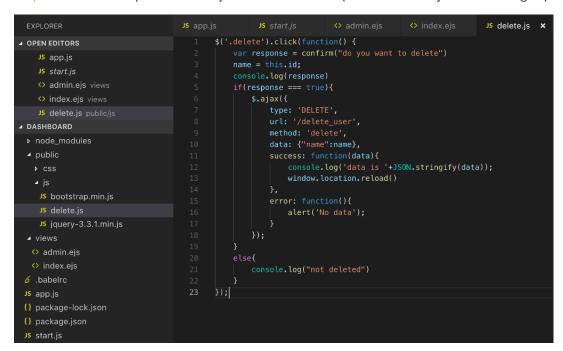
Step 13: Activate delete button by making call using Jquery Ajax and using id for each row.



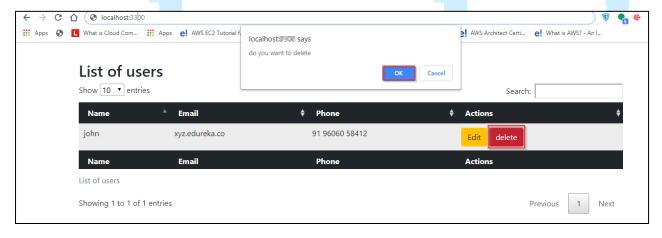
Step 14: By activating delete button we need to delete route in Node.js app file.



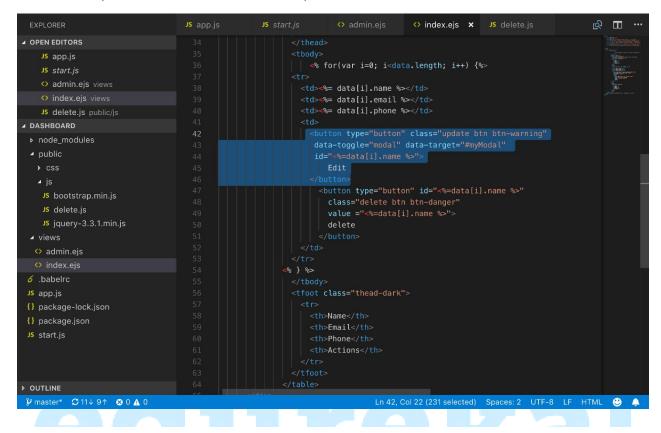
Step 15: Create a separate delete.js file to delete data (it is more like Ajax call running separately).



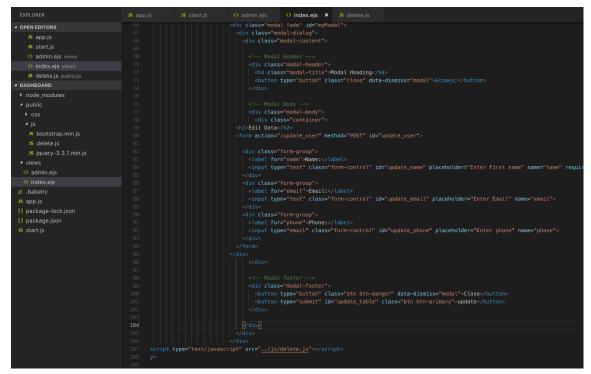
Step 16: Check the working of delete button in Browser.



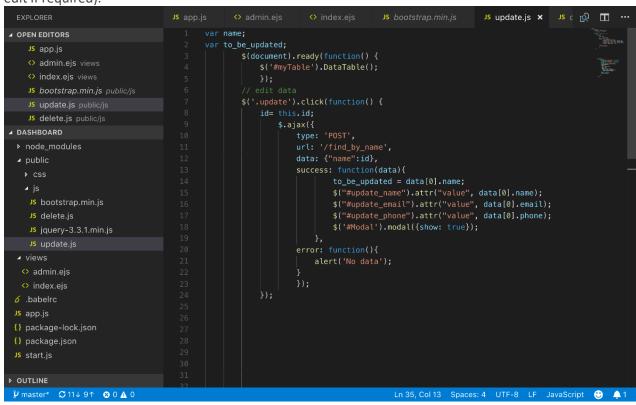
Step 17: Align edit button to update the request. On Click edit button you should be able to again call Ajax functions and pass id of each row record to be updated.



Step 18: Create a bootstrap modal that popups with data on clicking edit button.



Step 19: Created an update script to fetch data for each user populated in modal form (later on we can edit if required).



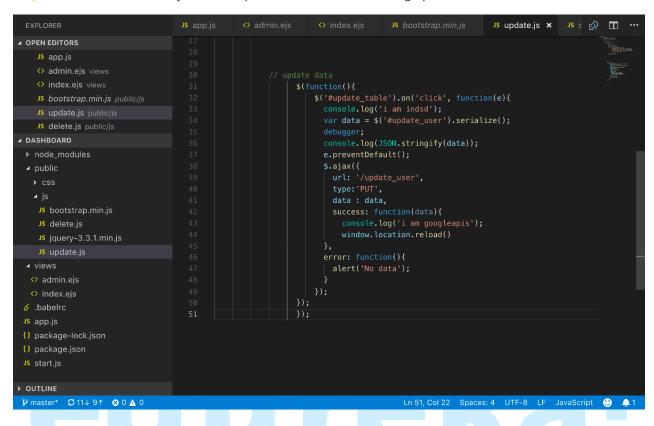
Step 20: Create one post route on basis of user ID to fetch user data.

```
JS app.js X
                                                    admin.eis
                                                           console.log('data.inserted');

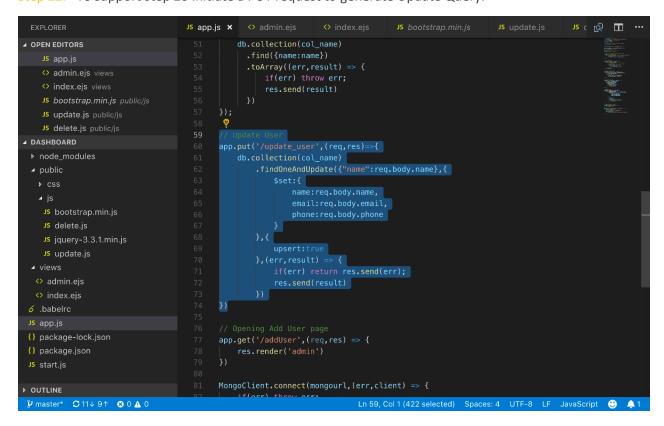
■ OPEN EDITORS

                                                  res.redirect('/');
    index.eis views
    JS bootstrap.min.js public/js
                                              app.delete('/delete_user',(req,res) => {
                                                 db.collection(col_name).findOneAndDelete({
    JS delete.js public/js
▲ DASHBOARD
                                                      if (err) return res.send(500,err)
   ▶ CSS
   ⊿ is
                                              /♥ Find user by name
                                              app.post('/find_by_name',(req,res) => {
    JS delete.js
    Js jquery-3.3.1.min.js
                                                    .toArray((err,result) =>
  admin.ejs
                                              });
                                              // Opening Add User page
app.get('/addUser',(req,res) => {
{} package-lock.json
                                                  res.render('admin')
```

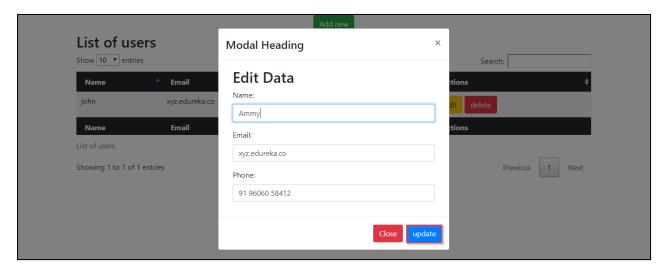
Step 21: Create one more Ajax call to update the record on clicking update button.



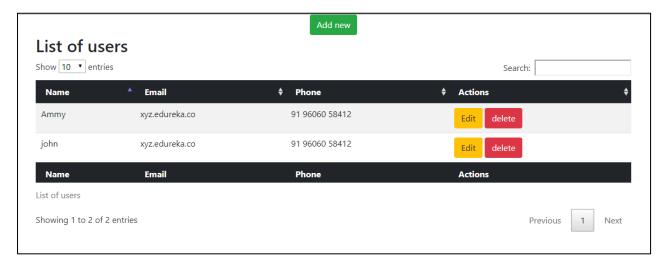
Step 22: To support step 20 initiate a PUT request to generate Update Query.



Step 23: Check the working of update button in Browser. When we click on edit, modal should popup with existing data.



Step 24: Finally, we can see updated data and dashboard CRUD operations complete



Conclusion:

We have successfully created Dashboard application using ES6 and EJS template