

# Assignment

## CRUD OPERATION ON CSV FILE

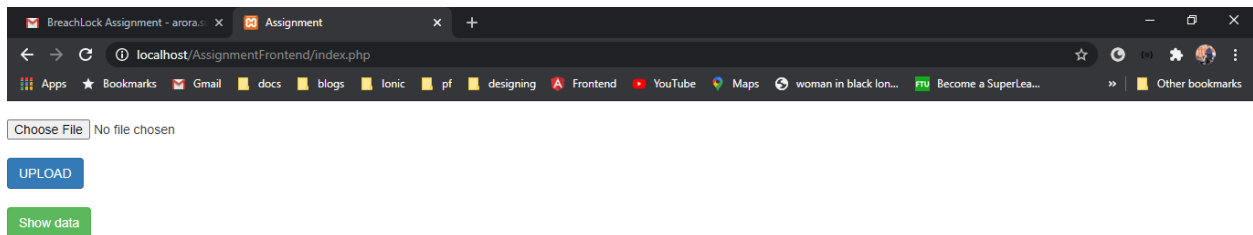
1. Frontend – Php

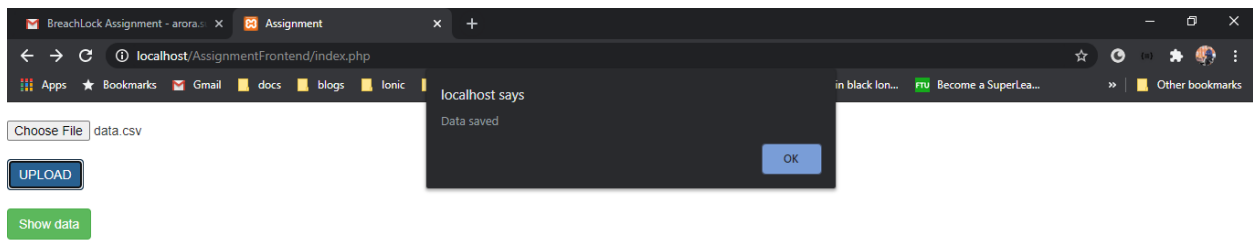
2. Backend – (Server-side language) -> Node.js  
(Database) -> MongoDB

CRUD: - Create, Read, Update, Delete

1. Create

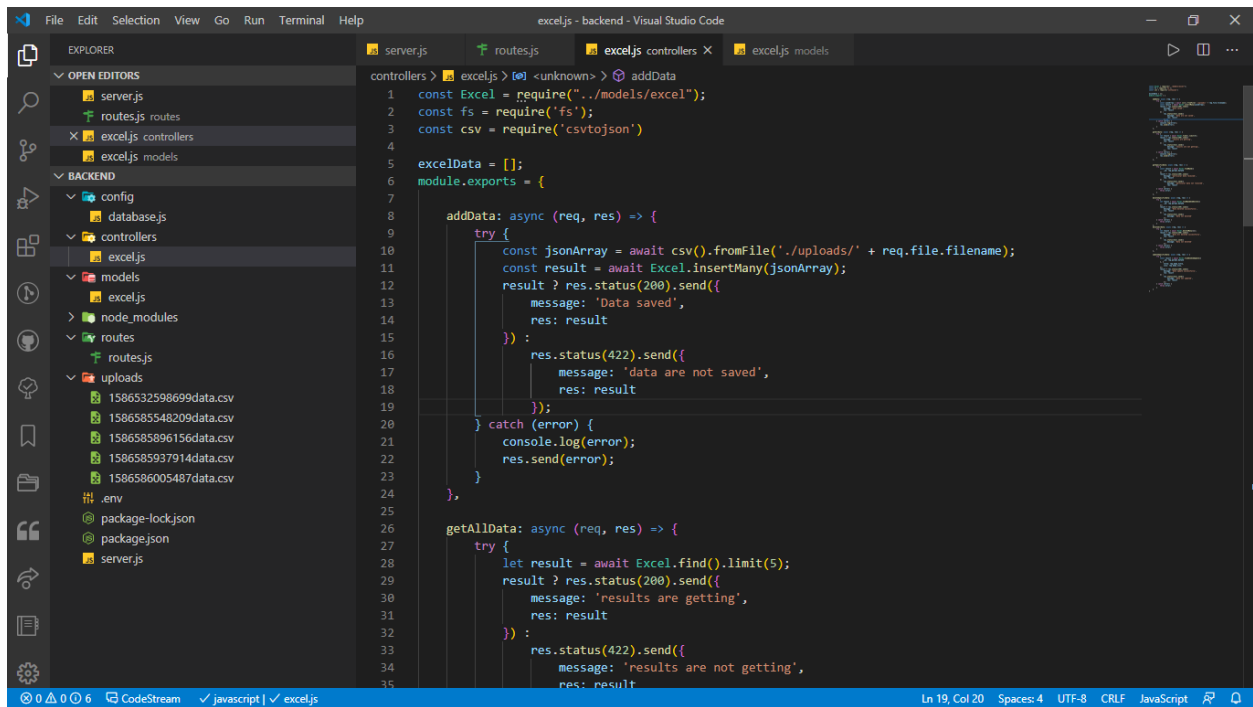
### Frontend





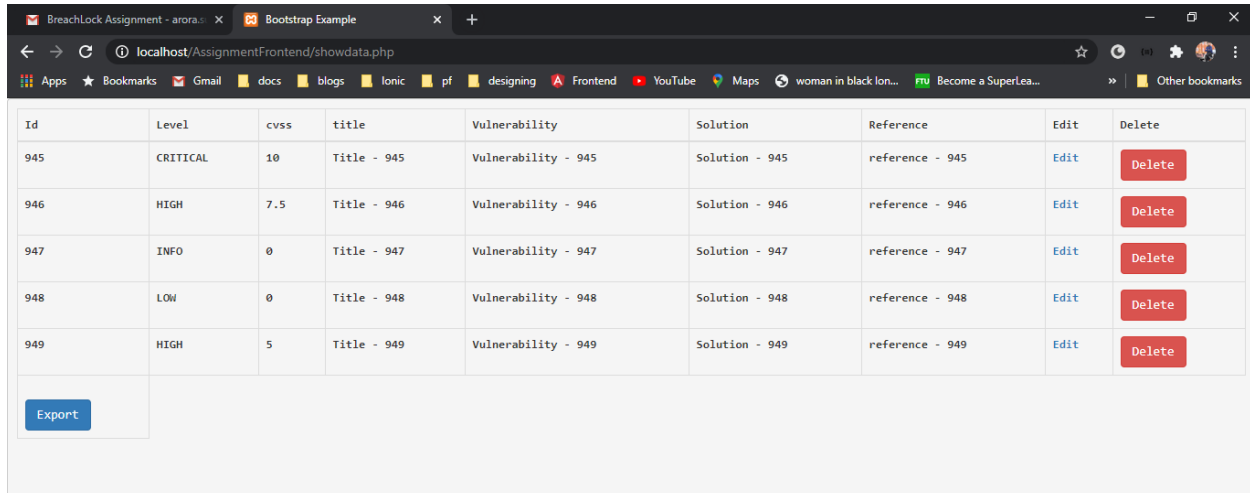
## Backend

Here function `addData()` is used to post the data into database and create the collection



## 2. Read

### Frontend



Id	Level	cvss	title	Vulnerability	Solution	Reference	Edit	Delete
945	CRITICAL	10	Title - 945	Vulnerability - 945	Solution - 945	reference - 945	<a href="#">Edit</a>	<button>Delete</button>
946	HIGH	7.5	Title - 946	Vulnerability - 946	Solution - 946	reference - 946	<a href="#">Edit</a>	<button>Delete</button>
947	INFO	0	Title - 947	Vulnerability - 947	Solution - 947	reference - 947	<a href="#">Edit</a>	<button>Delete</button>
948	LOW	0	Title - 948	Vulnerability - 948	Solution - 948	reference - 948	<a href="#">Edit</a>	<button>Delete</button>
949	HIGH	5	Title - 949	Vulnerability - 949	Solution - 949	reference - 949	<a href="#">Edit</a>	<button>Delete</button>

Export

\*Note:-

The data is too large as(28885 rows) it is taking few minutes to load in the frontend from the database. So to avoid this I have used **limit 5** when getting the data from the database. Yes, you can load all the data from the database (Soulution):- remove the **.limit(5)** in getAllData() function.

# Backend

```
File Edit Selection View Go Run Terminal Help
exceljs - backend - Visual Studio Code

EXPLORER
  OPEN EDITORS
    server.js
    routes.js routes
    exceljs controllers
    exceljs models
  BACKEND
    config
    databasejs
    controllers
    exceljs
    models
    node_modules
    routes
    routes.js
    uploads
      1586532598699data.csv
      1586585548209data.csv
      1586585896156data.csv
      1586585937914data.csv
      1586586005487data.csv
    .env
    package-lock.json
    package.json
    server.js

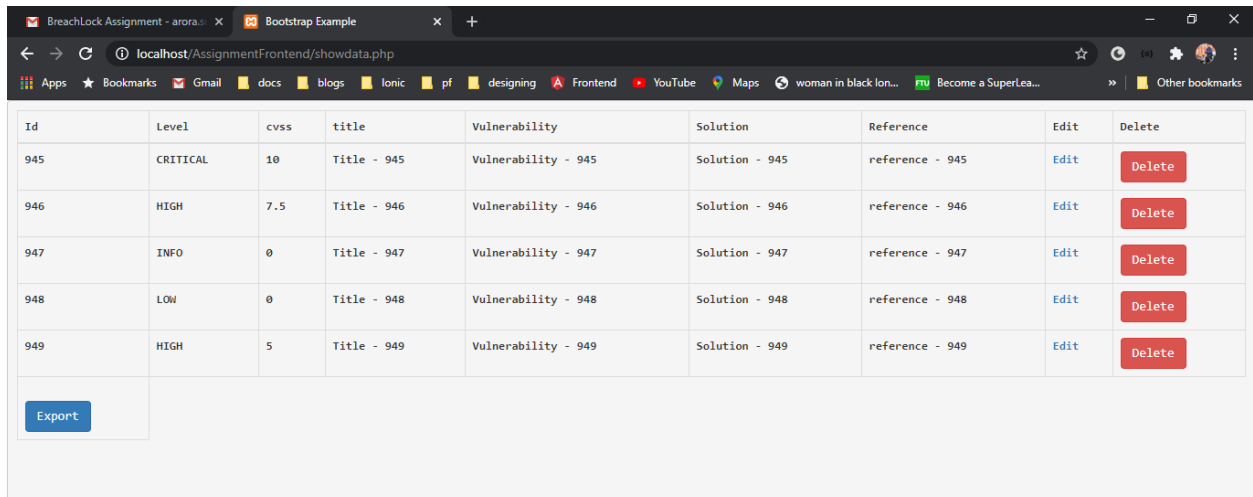
controllers > exceljs > <unknown> > getAllData > result
20
21 } catch (error) {
22   console.log(error);
23   res.send(error);
24 }
25 },
26
27 getAllData: async (req, res) => {
28   try {
29     let result = await Excel.find().limit(5);
30     result ? res.status(200).send({
31       message: 'results are getting',
32       res: result
33     }) :
34     res.status(422).send({
35       message: 'results are not getting',
36       res: result
37     });
38   } catch (error) {
39     console.log(error);
40     res.send(error);
41   }
42 },
43
44 getSpecificData: async (req, res) => {
45   try {
46     const result = await Excel.findById({
47       _id: req.params.dataId
48     })
49     result ? res.status(200).send({
50       message: 'particular data received',
51       res: result
52     }) :
53     res.status(422).send({
54       message: 'particular data not received'
55     })
56   } catch (error) {
57     console.log(error);
58     res.send(error);
59   }
60 },
```

Ln 28, Col 45 (8 selected) Spaces: 4 UTF-8 CRLF JavaScript

### 3. Update

## Frontend

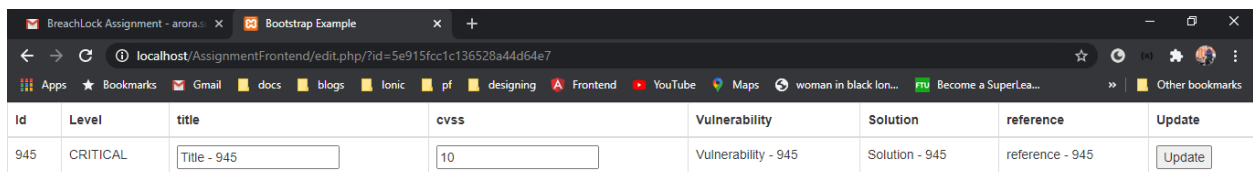
Step 1:- Click on the Edit link it will redirect to edit page.



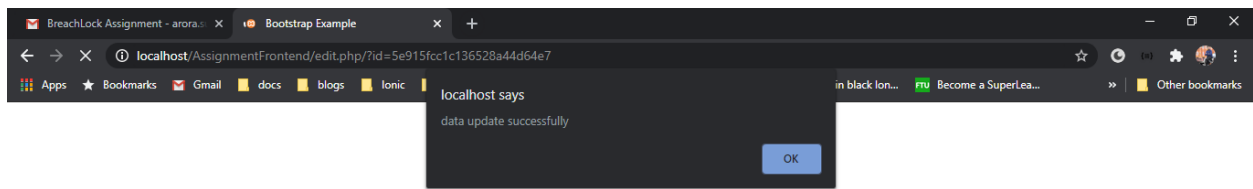
Id	Level	cvss	title	Vulnerability	Solution	Reference	Edit	Delete
945	CRITICAL	10	Title - 945	Vulnerability - 945	Solution - 945	reference - 945	<a href="#">Edit</a>	<button>Delete</button>
946	HIGH	7.5	Title - 946	Vulnerability - 946	Solution - 946	reference - 946	<a href="#">Edit</a>	<button>Delete</button>
947	INFO	0	Title - 947	Vulnerability - 947	Solution - 947	reference - 947	<a href="#">Edit</a>	<button>Delete</button>
948	LOW	0	Title - 948	Vulnerability - 948	Solution - 948	reference - 948	<a href="#">Edit</a>	<button>Delete</button>
949	HIGH	5	Title - 949	Vulnerability - 949	Solution - 949	reference - 949	<a href="#">Edit</a>	<button>Delete</button>

Export

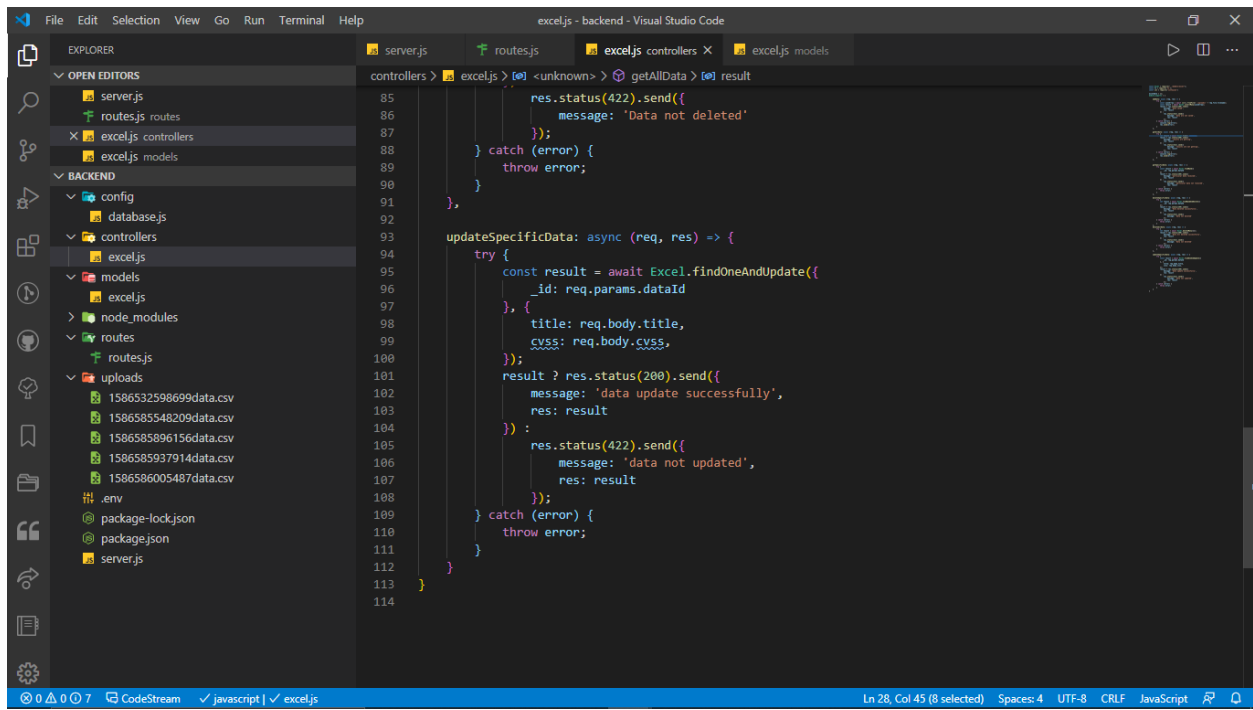
Step 2:- Update the value and click on update button to update the data.



Id	Level	title	cvss	Vulnerability	Solution	reference	Update
945	CRITICAL	<input type="text" value="Title - 945"/>	<input type="text" value="10"/>	Vulnerability - 945	Solution - 945	reference - 945	<button>Update</button>



## Backend



### 3. Delete

## Frontend

Click on the delete the button to delete the specific record.

localhost says  
data Deleted successfully

OK

Id	Level	cvss	title	Vulnerability	Solution	Reference	Edit	Delete
945	CRITICAL	10	Title - 945			reference - 945	Edit	Delete
946	HIGH	7.5	Title - 946	Vulnerability - 946	Solution - 946	reference - 946	Edit	Delete
947	INFO	0	Title - 947	Vulnerability - 947	Solution - 947	reference - 947	Edit	Delete
948	LOW	0	Title - 948	Vulnerability - 948	Solution - 948	reference - 948	Edit	Delete
949	HIGH	5	Title - 949	Vulnerability - 949	Solution - 949	reference - 949	Edit	Delete

Export

```
{"message": "Data deleted successfully", "res": {"_id": "5e915fcc1c136528a44d64e7", "id": 945, "level": "CRITICAL", "cvss": 10, "title": "Title - 945", "Vulnerability": "Vulnerability - 945", "Solution": "Solution - 945"}}
```

# Backend

```
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exceljs - backend - Visual Studio Code

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      1586585896156data.csv
      1586585937914data.csv
      1586586005487data.csv
    .env
    package-lock.json
    package.json
    server.js

controllers > exceljs > [0] <unknown> > [0] result
51      res: result
52    });
53    res.status(422).send({
54      message: 'particular data not received',
55      res: result
56    });
57  } catch (error) {
58    throw error;
59  }
60 },
61
62 deleteSpecificData: async (req, res) => {
63   try {
64     let result = await Excel.findByIdAndDelete({
65       _id: req.params.dataId
66     });
67     result ? res.status(200).send({
68       message: 'Data deleted successfully',
69       res: result
70     }) :
71       res.status(422).send({
72         message: 'Data not deleted'
73       });
74   } catch (error) {
75     throw error;
76   }
77 },
78 deleteAllData: async (req, res) => {
79   try {
80     let result = await Excel.deleteMany({});
81     result ? res.status(200).send({
82       message: 'Data All deleted successfully',
83       res: result
84     }) :
85     res.status(422).send({
```

## Export the data into excel file

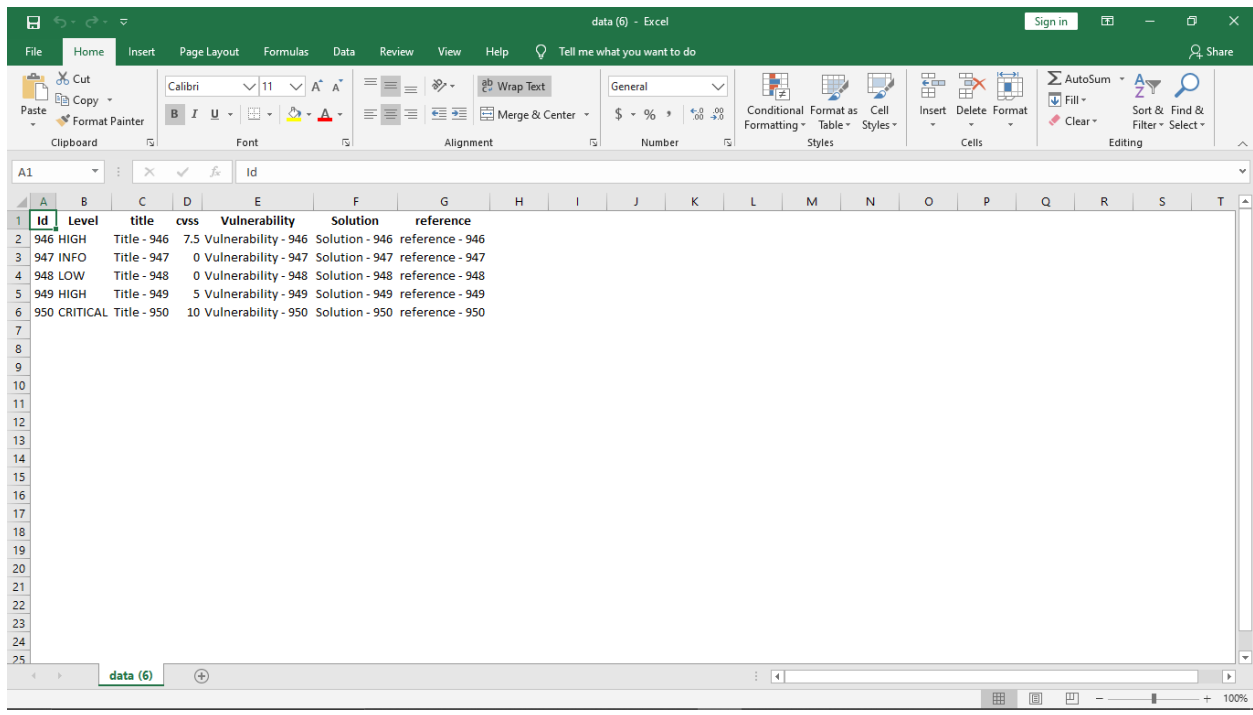
Id	Level	cvss	title	Vulnerability	Solution	Reference	Edit	Delete
946	HIGH	7.5	Title - 946	Vulnerability - 946	Solution - 946	reference - 946	Edit	Delete
947	INFO	0	Title - 947	Vulnerability - 947	Solution - 947	reference - 947	Edit	Delete
948	LOW	0	Title - 948	Vulnerability - 948	Solution - 948	reference - 948	Edit	Delete
949	HIGH	5	Title - 949	Vulnerability - 949	Solution - 949	reference - 949	Edit	Delete
950	CRITICAL	10	Title - 950	Vulnerability - 950	Solution - 950	reference - 950	Edit	Delete

Export





# Excel file



Id	Level	title	cvss	Vulnerability	Solution	reference
946	HIGH	Title - 946	7.5	Vulnerability - 946	Solution - 946	reference - 946
947	INFO	Title - 947	0	Vulnerability - 947	Solution - 947	reference - 947
948	LOW	Title - 948	0	Vulnerability - 948	Solution - 948	reference - 948
949	HIGH	Title - 949	5	Vulnerability - 949	Solution - 949	reference - 949
950	CRITICAL	Title - 950	10	Vulnerability - 950	Solution - 950	reference - 950

## Node.js Packages

1. **body-parser** — Parsing the incoming request bodies in a middleware.
2. **cors** — cross origin resource sharing for access resource from remote hosts.
3. **csvtojson** — used to convert the csv file into json format.
4. **express** — framework in node.js.
5. **fs** — to communicate with the file system.
6. **mongoose** — used to create the schema and operations in db.
7. **multer** — used to upload the file on the server.
8. **nodemon** — used to restart the server after saving the file.