

# JobFinder

JAN 25TH, 2022

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# High Level View – Job Search Website

Search  
catalog

Security

File Storage  
(e.g. resumes)

Favourite  
jobs/wishlist

Email  
notifications

Company  
reviews

# Search Catalog – Solution Overview

**JobFinder** Login Registration

Search here for a job... Province Type Category Find jobs Reset

Total Jobs Found: 14

**React Developer**

iTech  
\$80,000 per year  
Business  
Part-Time  
Toronto, ON  
Posted: Jan 22nd 2022  
Expires: Jan 27th 2022  
Description: Progra...  
View Details

**Cake Baker**

Bakery  
\$45,000 per year  
Art  
Full-Time  
Montreal, QC  
Posted: Jan 22nd 2022  
Expires: Jan 29th 2022  
Description: Bakery Job  
...  
View Details

**Tester**

Test  
\$50,000 per year  
IT  
Part-Time  
Montreal, QC  
Posted: Jan 22nd 2022  
Expires: Feb 5th 2022  
Description: test test...  
Apply  
View Details

**Employee**

Province Full-Time Art Find jobs Reset

Total Jobs Found: 1

**Cake Baker**

Bakery  
\$45,000 per year  
Art  
Full-Time  
Montreal, QC  
Posted: Jan 22nd 2022  
Expires: Jan 29th 2022  
Description: Bakery Job  
...  
View Details

Search here for a job... ON Full-Time Art Find jobs Reset

Total Jobs Found: 0

1 2 3 4 5 6 7 Next

# Employee – Solution Overview

JobFinder [Dashboard](#) [My Wishlist](#) [Account](#) Welcome, employee2 [Logout](#)

## Cake Baker

### Bakery

\$45,000 per year

Art

Full-Time

Montreal, QC

Posted: Jan 22nd 2022

Expires: Jan 29th 2022

Description:

Bakery Job



Apply

View Details

## My Job Application History

Job Title	Company	Salary	Category	Type	Education	Years of Experience	Date Applied	Expiry Date	Views	Actions
React Developer	iTech	\$80,000	Business	Part-Time	High School	0-2	Jan 24th 2022	Jan 27th 2022	<a href="#">View Resume</a>	<a href="#">Remove Application</a> <a href="#">Update Application</a>
Chemist	Pfizer	\$55,000	Engineering	Full-Time	High School	0-2	Jan 24th 2022	Jan 28th 2022	<a href="#">View Resume</a>	<a href="#">Remove Application</a> <a href="#">Update Application</a>

## My WishList

Job Title	Company	Salary	Category	Type	City	Province	Applied	View	Remove
Junior Developer	Apple	\$70,000	IT	Contract	Montreal	QC	<a href="#">Apply</a>	<a href="#">View</a>	<a href="#">Remove</a>
Chemist	Pfizer	\$55,000	Engineering	Full-Time	Montreal	QC	✓	<a href="#">View</a>	<a href="#">Remove</a>
React Developer	iTech	\$80,000	Business	Part-Time	Toronto	ON	✓	<a href="#">View</a>	<a href="#">Remove</a>

## Update Your Personal Info

Email	Name	Role	Province	City	Actions
employee2@jobfinder.com	employee2	Employee	QC	Montreal	<a href="#">Update Your Info</a>

# Employer – Solution Overview

JobFinder Create Job Dashboard Account Welcome, pam beasley Logout

## Employer Dashboard

Your current job postings

Job Title	Company	Salary	Category	Type	Description	Expiry Date	# of Applications	Views	Actions
Cake Baker	Bakery	\$45,000	Art	Full-Time	Bakery Job ...	Jan 29th 2022	0	<a href="#">View job Details</a>	<a href="#">Delete Job</a>
								<a href="#">View Applications</a>	<a href="#">Update Job</a>
Tester	Test	\$50,000	IT	Full-Time	test test...	Feb 5th 2022	0	<a href="#">View job Details</a>	<a href="#">Delete Job</a>
								<a href="#">View Applications</a>	<a href="#">Update Job</a>

1 2 [Next](#)

## Applications for Cake Baker

Name	Email	Years of Experience	Education	Date Applied	Resume
employee2	employee2@jobfinder.com	0-2	High School	Jan 24th 2022	<a href="#">View Resume</a>
NIKI	niki@niki.com	0-2	High School	Jan 24th 2022	<a href="#">View Resume</a>

## Update Your Personal Info

Email	Name	Role	Province	City	Actions
pam@pam.com	pam beasley	Employer	QC	Ottawa	<a href="#">Update Your Info</a>

## Create A Job

Step 2 of 3

Province:

City:

E.g. Montreal

Expiry Date:

Next Step

## Cake Baker

### Bakery

\$45,000

Art

Full-Time

Montreal, QC

Posted: Jan 22nd 2022

Expires: Jan 29th 2022

Description:

Bakery Job

blob:https://gracious-villani-f44d4b.netlify.app/625dca7f-afd2-...

CV. BJN 2 / 2 93%

### Education

**Bachelor of Information Technology Engineering**, Iran 2012  
Evaluated by WES as Bachelor of Science in Information Technology Engineering

**Master of Business Administration**, Iran 2016  
Evaluated by WES as Master of Science in Information Technology Engineering

### Language

**English:** Fluent  
IELTS Score: Overall : 8 ( Listening: 8.5 Reading: 9 Speaking: 7.5 Writing: 7 )  
**Persian:** Native  
**French:** Learning (Basic)

# Admin – Solution Overview

## Manage Jobs

Add a new Job

Title	Company	Salary	Category	Type	Province	City	Description	Expiry Date	# of Applications	Views	Actions
React Developer	iTech	\$80,000	Business	Part-Time	ON	Toronto	Progra...	Jan 27th 2022	4	<a href="#">View Details</a> <a href="#">View Applications</a>	<a href="#">Delete Job</a> <a href="#">Update Job</a>
Cake Baker	Bakery	\$45,000	Art	Full-Time	QC	Montreal	Bakery Job ...	Jan 29th 2022	2	<a href="#">View Details</a> <a href="#">View Applications</a>	<a href="#">Delete Job</a> <a href="#">Update Job</a>

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [Next](#)

## Manage Users

Add a User

Email	Name	Role	Province	City	Actions
admin@admin.com	Admin	Admin	ON	Montreal	<a href="#">Delete User</a> <a href="#">Update User</a>
jim@jim.com	Jim Smith	Employee	QC	Montreal	<a href="#">Delete User</a> <a href="#">Update User</a>

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [Next](#)

## Applications for React Developer

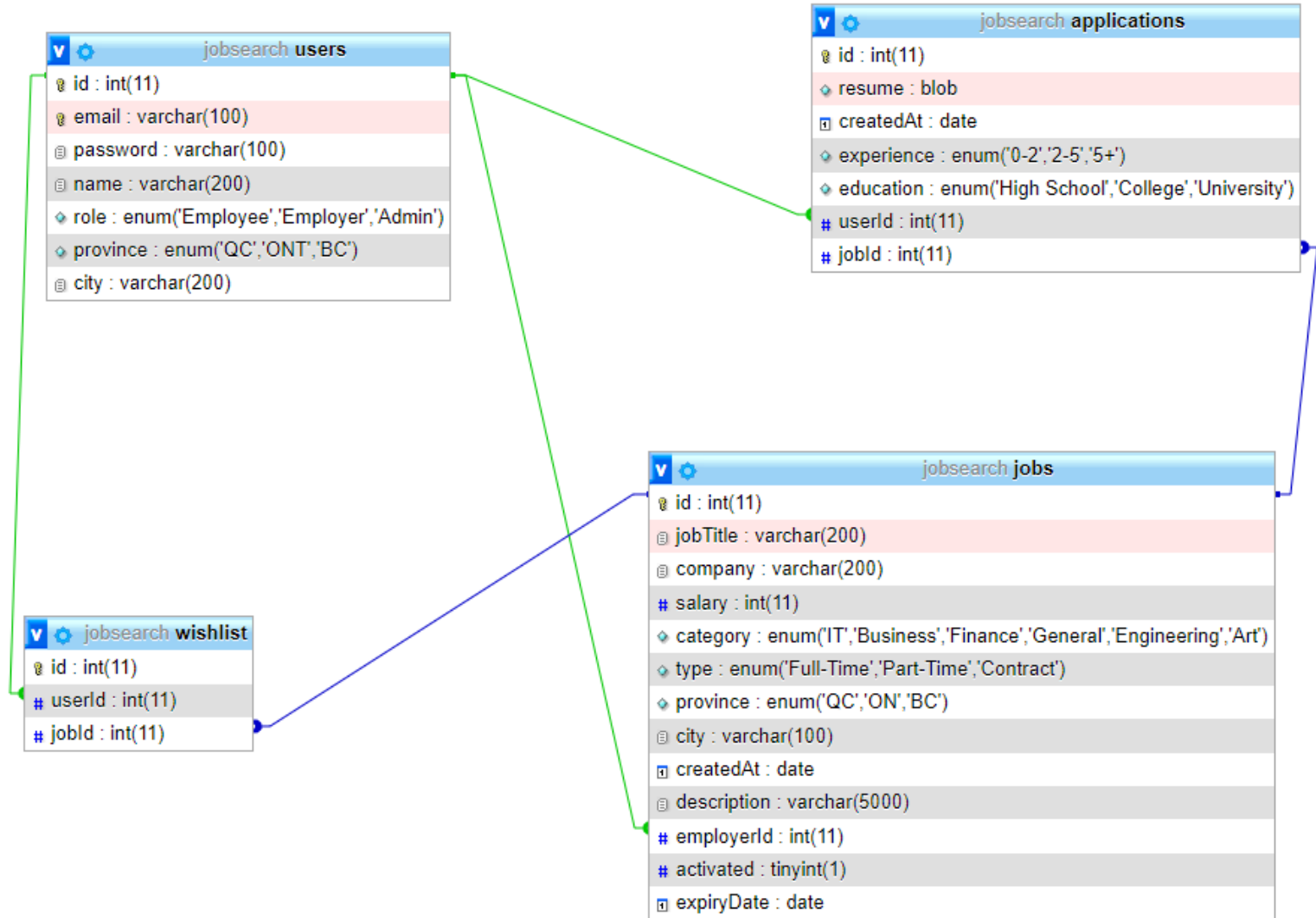
Name	Email	Years of Experience	Education	Date Applied	Resume
Jim Smith	jim@jim.com	2-5	High School	Jan 23rd 2022	<a href="#">View Resume</a>
negar	negar@negar.com	0-2	High School	Jan 23rd 2022	<a href="#">View Resume</a>
kimberly	kim@kim.com	2-5	High School	Jan 24th 2022	<a href="#">View Resume</a>
employee2	employee2@jobfinder.com	0-2	High School	Jan 24th 2022	<a href="#">View Resume</a>

## Update Your Personal Info

Email	Name	Role	Province	City	Actions
admin@admin.com	Admin	Admin	ON	Montreal	<a href="#">Update Your Info</a>



# Database





# Challenges & Solutions

- MySQL Workbench connection to ClearDB

- Solution:

System preference -> mySQL -> initialize database -> start  
MySQL server -> Restart computer

**Re:start**

Lost all my previous  
database!



# Challenges & Solutions

- Defining Different Roles

```
const authPage = (Permissions) => {  
  return(req, res, next) => {  
    const accessToken = req.header("accessToken");  
    const userRole = jwt.decode(accessToken).role;  
    if(Permissions.includes(userRole)){  
      next();  
    }  
  }  
}
```

```
router.put("/remove/:jobId([0-9]+)", validateToken, authPage(["Employer","Admin"]),
```

# Challenges & Solutions

- Deployment of front-end (Netlify)

```
6:47:21 PM: <--- JS Stacktrace --->
```

```
6:47:21 PM: FATAL ERROR: Ineffective mark-compacts near heap limit Allocation failed - JavaScript heap out of memory
```

- Solution:

```
"start": "react-scripts --max_old_space_size=4096 start",  
"build": "react-scripts --max_old_space_size=4096 build",
```

Put in **.env** file:

```
GENERATE_SOURCEMAP=false
```

# Challenges & Solutions

- Deployment of front-end (Netlify)

- Solution:

create a `public/_redirects` file with the following rewrite rules:

```
/* /index.html 200
```

## Page Not Found

Looks like you've followed a broken link or entered a URL that doesn't exist on this site.

[← Back to our site](#)

# Challenges & Solutions

- Redirecting after Logout in App.js

✖ Uncaught Error: useNavigate() may be used only in the context of a <Router> component.

```
function App() {  
  return (  
    <div className="App">  
      <Router>
```

- Solution:
  - Add <Router> to index.js

```
ReactDOM.render(  
  <React.StrictMode>  
    <Router>  
      <App />  
    </Router>  
  </React.StrictMode>,  
  document.getElementById('root')  
>;
```

# Challenges & Solutions

- Displaying existing values in forms
- Problem: Not getting values on update form
- Solution: get values from a helper page

```
import UpdateJob from './UpdateJob';
```

```
function UpdateJobHelper() {
```

```
  return data ? <UpdateJob preloadedValues={data}/> : <div>Loading...</div>
```

```
function UpdateJob({preloadedValues}) {
```

```
  const {register, handleSubmit, formState: {errors, isValid}} = useForm({  
    mode: "all",  
    defaultValues: preloadedValues,  
  });
```

# Challenges & Solutions

- Not getting Rich Text Editor value on update








```
const [ckDescription, setCKDescription] = useState(preloadedValues.description);
```

```
<CKEditor data={ckDescription} editor={ClassicEditor}>
```

## Modify Job Information

Step 3 of 3

Paragraph

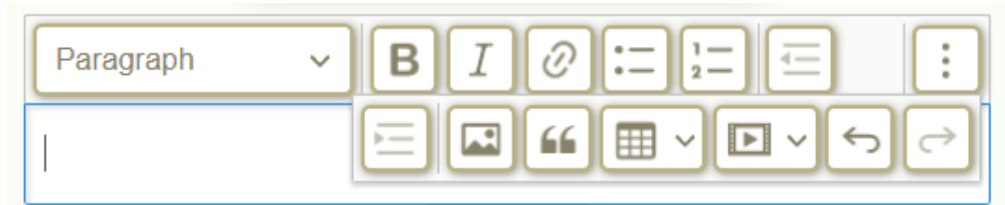
**B** *I* @       

*Phasellus odio enim, interdum vitae facilisis sed, mollis convallis ante. Nullam condimentum turpis non diam fermentum pellentesque. Fusce eget faucibus risus, ut dapibus diam. In hac habitasse platea dictumst.*

Submit

# Challenges & Solutions

- Customizing Rich Text Editor (CKEditor)



- Solution:

```
<CKEditor editor={ClassicEditor} onReady={editor=> {}} config={{removePlugins: ["EasyImage","ImageUpload","MediaEmbed"]}}>
```





# Challenges & Solutions

- Displaying a substring with rich text
- Solution:

```
import parse from 'html-react-parser';
```

```
function smart_substr(str, len) {  
  var temp = str.substr(0, len);  
  if(temp.lastIndexOf('<') > temp.lastIndexOf('>')) {  
    temp = str.substr(0, 1 + str.indexOf('>', temp.lastIndexOf('<')));  
  }  
  return temp;  
}
```

answered Apr 17 '15 at 12:45

 [Kerstomaat](#)  
673 ● 4 ● 13

```
<div className="card-text"><strong>Description:</strong> {parse(smart_substr(value.description, 20))}</div>
```

Nurse

Hospital

\$85,000 per year

General

Full-Time

Montreal, QC

*Posted: Jan 22nd 2022*

*Expires: Feb 3rd 2022*

Description:  
Urgent!!!...

[View Details](#)


# Challenges & Solutions

- Email : NodeMailer

```
var nodemailer = require('nodemailer');
```



Your app passwords

Name	Created	Last used	
JobFinder	Jan 20	9:58 AM	

Sending Email using Node.js Inbox x



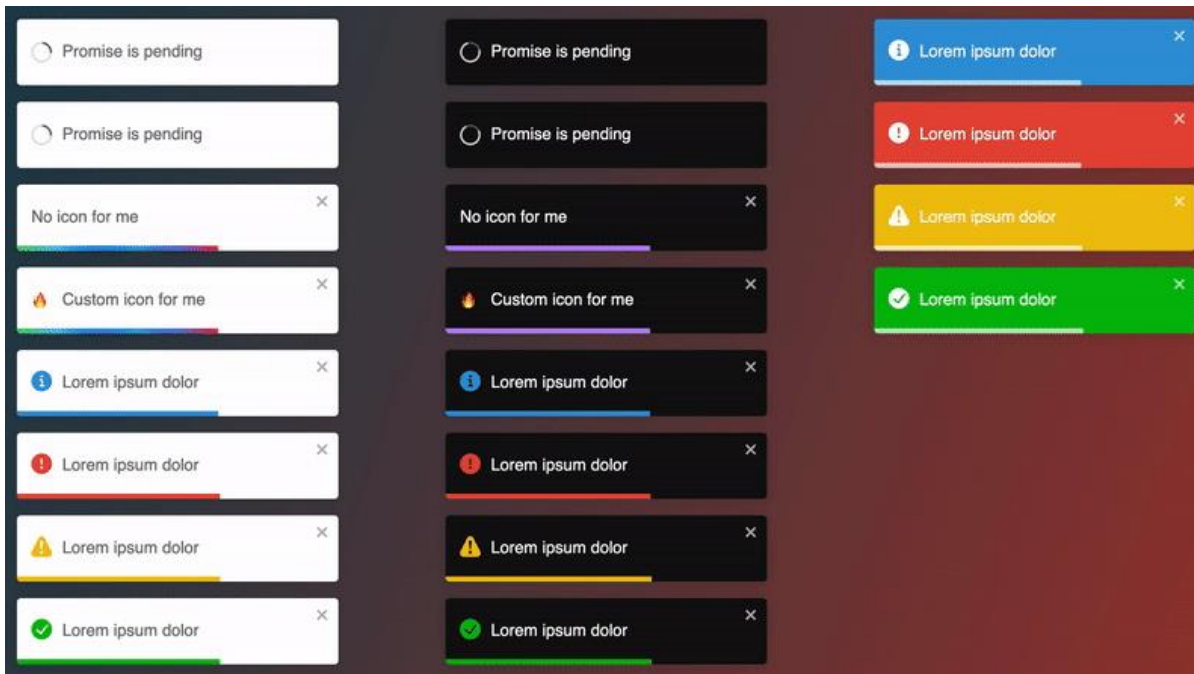
**bookbarn.fsd01@gmail.com**

to me ▾

We have received your job application!

# What We Learned

- Flash Messages: React-Toastify



```
import { toast } from 'react-toastify';
```

```
<ToastContainer />
```

```
const successAlert = () => {  
  toast("Job added to your Wishlist!", {  
    position: "top-right",  
    autoClose: 2000,  
    hideProgressBar: false,  
    closeOnClick: true,  
    pauseOnHover: false,  
    draggable: true,  
    progress: undefined,  
  });  
};
```

Job added to your Wishlist!

# What We Learned

- File upload to database
- Front End: FormData

```
const onSubmit = (data) => {  
  const formData = new FormData();  
  formData.append("resume", data.resume[0]);  
  formData.append("experience", data.experience);  
  formData.append("education", data.education);  
  
  axios.post(`https://jobfinder-fsd01.herokuapp.com/applications/${jobId}`, formData, {
```

# What We Learned

- File upload to database
- Back End: express-fileupload

- In your express server request, you can access your uploaded file from `req.files.foo` :

The `req.files.foo` object will contain the following:

- `req.files.foo.name` : "car.jpg"
- `req.files.foo.mv` : A function to move the file elsewhere on your server. Can take a callback or return a promise.
- `req.files.foo.mimetype` : The mimetype of your file
- `req.files.foo.data` : A buffer representation of your file, returns empty buffer in case useTempFiles option was set to true.
- `req.files.foo.tempFilePath` : A path to the temporary file in case useTempFiles option was set to true.
- `req.files.foo.truncated` : A boolean that represents if the file is over the size limit
- `req.files.foo.size` : Uploaded size in bytes
- `req.files.foo.md5` : MD5 checksum of the uploaded file

```
const fileUpload = require('express-fileupload');
```

```
//initialize middleware  
router.use(fileUpload());
```

```
if(req.files.resume.size > 1024 * 1024 ) {  
    return res.json({error: "Max file size is 1MB"});  
};
```

```
var insertdata = {};  
insertdata["resume"] = req.files.resume.data
```

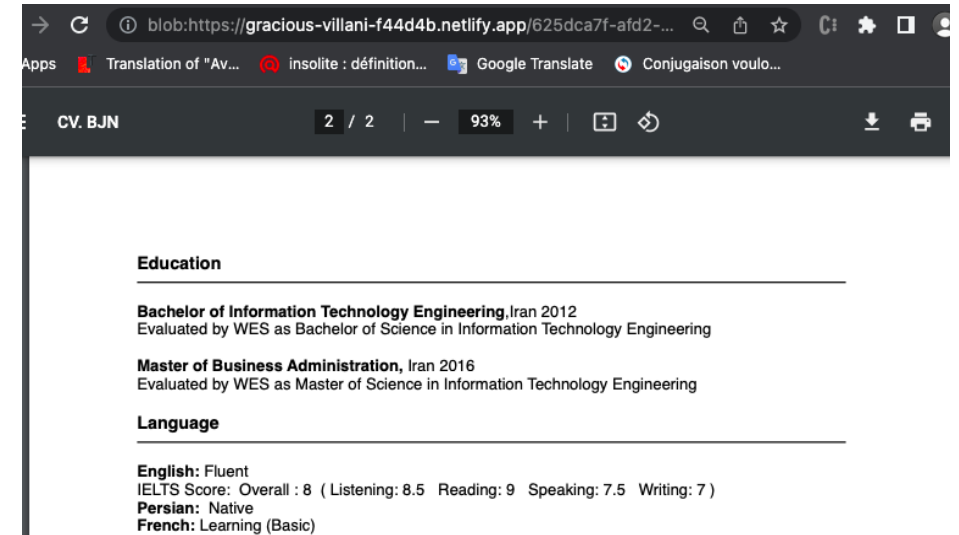
```
await Applications.create(insertdata);
```

# What We Learned

- Displaying PDFs

```
res.send(application.resume);
```

```
const viewResume = (id) => {  
  axios(`https://jobfinder-fsd01.herokuapp.com/applications/${id}`, {  
    method: 'GET',  
    responseType: 'blob' //Force to receive data in a Blob Format  
  })  
  .then(response => {  
    //Create a Blob from the PDF Stream  
    const file = new Blob(  
      [response.data],  
      {type: 'application/pdf'});  
    //Build a URL from the file  
    const fileURL = URL.createObjectURL(file);  
    //Open the URL on new Window  
    window.open(fileURL);  
  })  
  .catch(error => {  
    console.log(error);  
  });  
}
```



# Future Work

- Add application favourites/wishlist for employers
- Add anonymous company ratings and reviews
- Add sorting
- Unit testing
- Using S3 for storing resumes



# Summary

- Accomplished many of the goals in our proposal
- Successfully combined different technologies
- Created a functional job search app