

# **INDIVIDUAL ASSIGNMENT**

## **LEVEL 5**

### **COMP50016-2 : Server Side Programming - 2**

#### **Individual assignment**

**Batch code : IF2321SE**

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#### **INSTRUCTION TO CANDIDATES**

- 1. Late submission will be awarded zero (0) unless extenuating circumstances (EC) are upheld.**
- 2. Cases of plagiarism will be penalized.**
- 3. The assignment should be submitted as softcopy via LMS.**

**Acknowledgement**

Our sincere gratitude and appreciation go to Sir Vipula S Anandapiya, the lecturer of Server-Side Programming - II, for the guidance given to complete this lecture assignment. The support, guidance, and encouragement have been invaluable throughout this process.

**Executive Summary**

This report consists of the details of job finding website. This report consists of an introduction and a mind map of the website. Code screen shots of the user interface and the models used. This also consists of how the website is used, features of each role, test cases and future upgrade plan.

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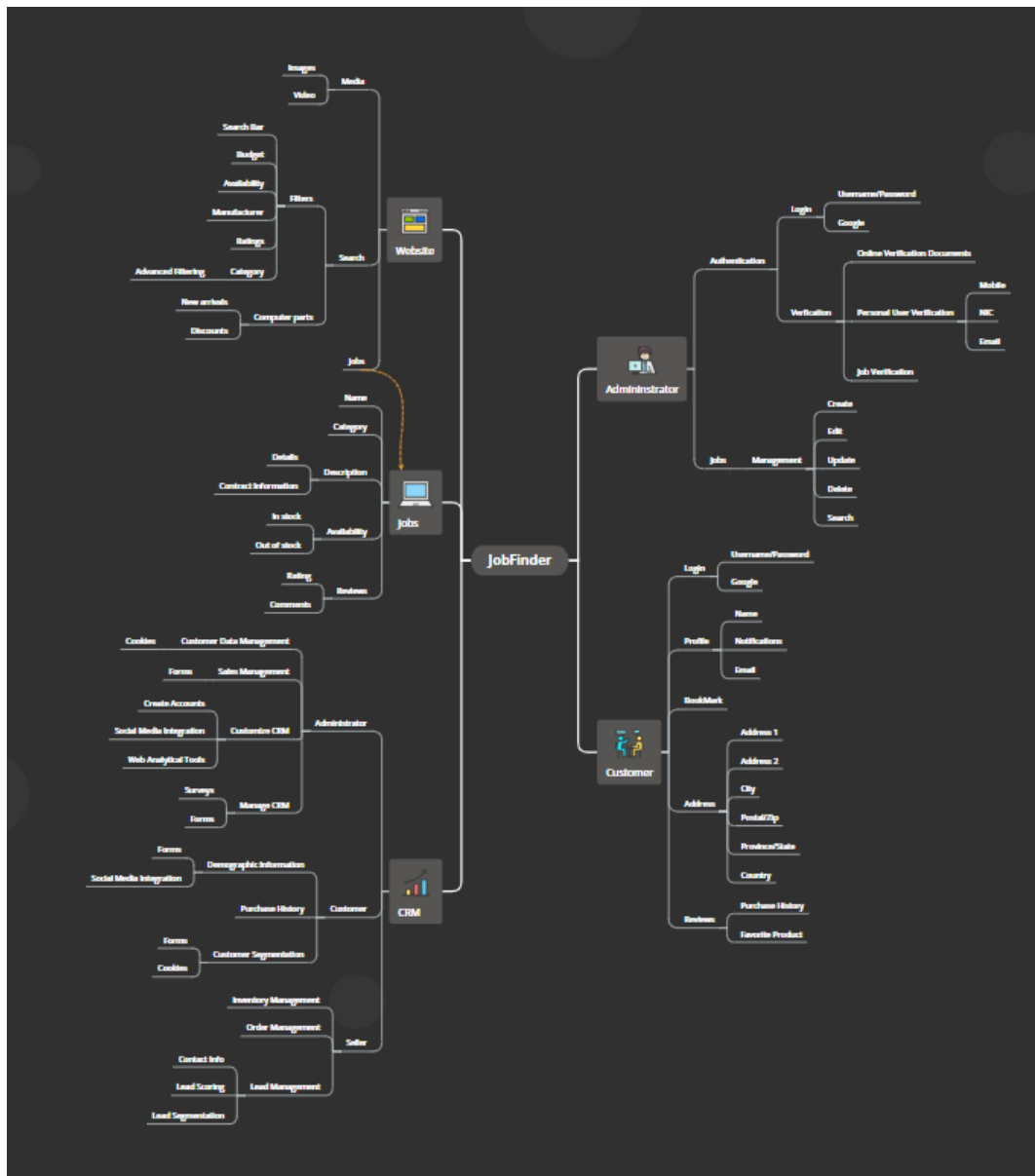
## **1.0.Introduction**

For this assignment a Customer Relationship Management (CRM) system was developed for a job finding agency called JobFinder. A web solution was proposed with the implementation of a CRM to the agency to further improve their job finding. This website solution contains 3 user roles. The business role is for companies, and it allows them to post jobs for their companies. The employer role is for job applicants who can view the jobs posted by businesses and apply to them if they want to. The administrator role is for the job agency where they can view the analytical data provided by the information available.

GitHub Link - <https://github.com/KavnduKarunaratne/JobFinder.git>

Mind Map Link - <https://gitmind.com/app/docs/mkiue5ru>

## 2.0.Mind Map



## 3.0. User Interfaces

### 3.1. User Login Page

```
1 <x-layout>
2   <div
3     class="bg-gray-50 border border-gray-200 p-10 rounded max-w-lg mx-auto mt-24"
4   >
5     <header class="text-center">
6       <h2 class="text-2xl font-bold uppercase mb-1">
7         Login
8       </h2>
9       <p class="mb-4">Log into your account to get started</p>
10    </header>
11
12    <form method="POST" action="/users/authenticate">
13      @csrf
14      <div class="mb-6">
15        <label for="email" class="inline-block text-lg mb-2">
16          Email</label>
17
18        <input
19          type="email"
20          class="border border-gray-200 rounded p-2 w-full"
21          name="email"
22          value="{{ old('email') }}"
23        />
24        @error('email')
25          <p class="text-red-500 text-xs mt-1">{{ $message }}</p>
26        @enderror
27      </div>
28
29      <div class="mb-6">
30        <label
31          for="password"
32          class="inline-block text-lg mb-2"
33        >
34          Password
35        </label>
36        <input
37          type="password"
38          class="border border-gray-200 rounded p-2 w-full"
39          name="password"
40          value="{{ old('password') }}"
41        />
42        @error('password')
43          <p class="text-red-500 text-xs mt-1">{{ $message }}</p>
44        @enderror
45      </div>
46
47      <div class="mb-6">
48        <button
49          type="submit"
50          class="bg-laravel text-white rounded py-2 px-4 hover:bg-black"
51        >
52          Sign In
53        </button>
54      </div>
55
56      <div class="mt-8">
57        <p>
58          Don't have an account?
59          <a href="/register" class="text-laravel">
60            Register</a>
61        </p>
62      </div>
63    </form>
64  </div>
65 </x-layout>
```

## 3.2. User Register Page

```
1 <@layout>
2 <div>
3
4     class="bg gray 50 border border gray 200 p 10 rounded max w lg mx auto mt 24"
5
6     <div class="text-center">
7         <h2 class="text-2xl font-bold uppercase mb-1">
8             Register
9         </h2>
10        <p class="mb-4">Create an account to get started</p>
11    </div>
12
13    <form x-data="{ showCV: false }" method="POST" action="/users" enctype="multipart/form-data">
14        <div class="mb-6">
15            <div class="inline-block text-lg mb-2">Choose Role</div>
16            <div class="flex items-center">
17                <input
18                    type="radio"
19                    id="business_role"
20                    name="role"
21                    value="0"
22                    class="mr-2"
23                    checked
24                    x-on:click="showCV = false"
25                />
26                <label for="business_role">Business</label>
27            </div>
28            <input
29                type="radio"
30                id="employer_role"
31                name="role"
32                value="1"
33                class="mr-4 mr-2"
34                x-on:click="showCV = true"
35            />
36            <label for="employer_role">Employer</label>
37        </div>
38
39        <div class="mb-6">
40            <div class="form-name" class="inline-block text-lg mb-2">
41                Name
42            </div>
43            <input
44                type="text"
45                class="border border-gray-200 rounded p-2 w-full"
46                name="name"
47                value="{{ old('name') }}"
48            />
49            <div class="text-red-500 text-xs mt-1">{{ $message }}</div>
50            <div class="text-red-500 text-xs mt-1">{{ $message }}</div>
51        </div>
52
53        <div class="mb-6">
54            <div class="form-email" class="inline-block text-lg mb-2">
55                Email
56            </div>
57            <input
58                type="email"
59                class="border border-gray-200 rounded p-2 w-full"
60                name="email"
61                value="{{ old('email') }}"
62            />
63            <div class="text-red-500 text-xs mt-1">{{ $message }}</div>
64            <div class="text-red-500 text-xs mt-1">{{ $message }}</div>
65        </div>
66
67        <div class="mb-6" x-show="showCV">
68            <div class="form-cv" class="inline-block text-lg mb-2">
69                CV
70            </div>
71            <input
72                type="file"
73                class="border border-gray-200 rounded p-2 w-full"
74                name="cv"
75            />
76            <div class="text-red-500 text-xs mt-1">{{ $message }}</div>
77            <div class="text-red-500 text-xs mt-1">{{ $message }}</div>
78        </div>
79
80        <div class="mb-6">
81            <div class="form-password" class="inline-block text-lg mb-2">
82                Password
83            </div>
84            <input
85                type="password"
86                class="border border-gray-200 rounded p-2 w-full"
87                name="password"
88                value="{{ old('password') }}"
89            />
90            <div class="text-red-500 text-xs mt-1">{{ $message }}</div>
91            <div class="text-red-500 text-xs mt-1">{{ $message }}</div>
92        </div>
93
94        <div class="mb-6">
95            <div class="form-password2" class="inline-block text-lg mb-2">
96                Confirm Password
97            </div>
98            <input
99                type="password"
100                class="border border-gray-200 rounded p-2 w-full"
101                name="password_confirmation"
102                value="{{ old('password_confirmation') }}"
103            />
104            <div class="text-red-500 text-xs mt-1">{{ $message }}</div>
105            <div class="text-red-500 text-xs mt-1">{{ $message }}</div>
106        </div>
107
108        <div class="mb-6">
109            <div class="form-submit" class="inline-block text-lg mb-2">
110                Sign Up
111            </div>
112            <button
113                type="submit"
114                class="bg laravel text white rounded py 2 px 4 hover:ing black"
115            >
116                Sign Up
117            </button>
118        </div>
119
120        <div class="mt-8">
121            <div>
122                Already have an account?
123                <a href="/login" class="text-laravel">
124                    Login
125                </a>
126            </div>
127        </div>
128    </form>
129 </div>
130 </@layout>
```



## 4.0. Partial

### 4.1. Hero Partial

```
1 <section
2   >
3   <div
4     <div class="absolute top-0 left-0 w-full h-full opacity-10 bg-no-repeat bg-center"
5       style="background-image: url('images/job-logo.png')">
6     </div>
7   </div>
8   <div class="z-10">
9     <h1 class="text-6xl font-bold uppercase text-white">
10       JOB<span class="text-black">FINDER</span>
11     </h1>
12     <p class="text-2xl text-gray-200 font-bold my-4">
13       Find Your Dream Job
14     </p>
15     @auth
16     <div>
17       @if(auth()->user()->role == '0')
18       <a
19         href="/listings/create"
20         class="inline-block border-2 border-white text-white py-2 px-4 rounded-xl uppercase mt-2 hover:text-black hover:border-black"
21       >Post a Job Now</a>
22       </div>
23       @else
24       <a
25         href="/listings/create"
26         class="inline-block border-2 border-white text-white py-2 px-4 rounded-xl uppercase mt-2 hover:text-black hover:border-black"
27       >Find a Job Now</a>
28       </div>
29     @endif
30   </div>
31 @else
32 <div>
33   <a
34     href="/register"
35     class="inline-block border-2 border-white text-white py-2 px-4 rounded-xl uppercase mt-2 hover:text-black hover:border-black"
36   >Sign Up to Post or Find a Job</a>
37   </div>
38 @endauth
39 </div>
40 </section>
41
42
43
```

## 4.2. Search Partial

```
1 <form action="">
2   <div class="relative border-2 border-gray-100 m-4 rounded-lg">
3     <div class="absolute top-4 left-3">
4       <i
5         class="fa fa-search text-gray-400 z-20 hover:text-gray-500"
6       ></i>
7     </div>
8     <input
9       type="text"
10      name="search"
11      class="h-14 w-full pl-10 pr-20 rounded-lg z-0 focus:shadow focus:outline-none"
12      placeholder="Search For Jobs..."
13    />
14    <div class="absolute top-2 right-2">
15      <button
16        type="submit"
17        class="h-10 w-20 text-white rounded-lg bg-laravel hover:bg-hover"
18      >
19        Search
20      </button>
21    </div>
22  </div>
23 </form>
```

## 5.0. Job Pages

### 5.1. Show All Job Post Page

```
1
2 <x-layout>
3
4 @include('partials._hero')
5 @include('partials._search')
6
7 <div class="lg:grid lg:grid-cols-2 gap-4 space-y-4 md:space-y-0 mx-4">
8
9 @unless(count($listings) == 0)
10
11 @foreach($listings as $listing)
12     <x-listing-card :listing="$listing"/>
13 @endforeach
14
15 @else
16     <p>No listings found</p>
17 @endunless
18
19 </div>
20
21 <div class="mt-6 p-4">
22     {{ $listings->links() }}
23 </div>
24 </x-layout>
25
```

## 5.2. Show Single Job Post Page

```
1 <= layout>
2
3 @include('partials._search')
4
5
6 <= href="/" class="inline-block text-black ml-4 mb-4">
7   <= class="fa-solid fa-arrow-left"> Back
8 </=
9 <= class="mx-4">
10   <div class="bg-gray-50 border border-gray-200 p-10 rounded">
11     <div>
12       class="flex flex-col items-center justify-center text-center"
13     >
14     <div>
15       class="w-48 m-6 mb-6"
16       src="{{($listing->logo ? asset('storage/' . $listing->logo) : asset('/images/no-image.png'))}"
17       alt=""
18     </div>
19
20     <div class="text-2xl mb-2">{{($listing->title)}}</div>
21     <div class="text-xl font-bold mb-4">{{($listing->company)}}</div>
22
23     <= listing_tags :tagsCsv="$listing->tags" />
24
25     <div class="text-lg my-4">
26       <= class="fa-solid fa-location-dot"> {{($listing->location)}
27     </div>
28     <div class="border border-gray-200 w-full mb-6"></div>
29     <div>
30       <div class="text-3xl font-bold mb-4">
31         Job Description
32       </div>
33       <div class="text lg space y 6">
34         {{($listing->description)}}
35       </div>
36
37       @if(auth()-user()-role == 1)
38         <div>
39           href="{{($listing->email)}}"
40           class="block bg-laravel text-white mt-6 py-2 rounded-xl hover:opacity-80"
41           <= class="fa-solid fa-envelope">
42           Apply for Job</=
43         >
44       </div>
45
46       <div>
47         href="{{($listing->website)}}"
48         target="_blank"
49         class="block bg-black text-white py-2 rounded-xl hover:opacity-80"
50         <= class="fa-solid fa-globe"> Visit
51         Website</=
52       >
53     </div>
54
55     @php
56       $hasBookmark = false;
57       @endphp
58       {{-- Check if the listing has a bookmark for the current user --}}
59       @foreach($bookmarks as $bookmark)
60         @if($bookmark->listing_id == $listing->id && $bookmark->user_id == auth()-user()-id)
61           $hasBookmark = true;
62         @endif
63       @endforeach
64
65       {{-- Display the form to create a bookmark if no bookmark exists --}}
66       @if(!$hasBookmark)
67         <form action="/bookmark" method="POST">
68           @csrf
69           <input type="hidden" name="listing_id" value="{{($listing->id)}">
70           <input type="submit" class="block bg-laravel text-white mt-6 py-2 px-3 mx-auto rounded-xl hover:opacity-80"> <= class="fa-solid fa-bookmark"> Bookmark</button>
71         </form>
72       @endif
73
74     @else
75       <div>
76         href="{{($listing->website)}}"
77         target="_blank"
78         class="block bg-black text-white mt-6 py-2 rounded-xl hover:opacity-80"
79         <= class="fa-solid fa-globe"> Visit
80         Website</=
81       >
82     @endif
83
84 @endauth </div>
85 </div>
86 </div>
87 </div>
88 </div>
89 </= layout>
90
91
```

### 5.3.Show Create Job Post Page

[illegible]


## 5.4. Show Edit Job Post Page

## 5.5. Show Manage Job Post Page

```
1 <x-layout>
2   <div class="bg-gray-50 border border-gray-200 p-10 rounded">
3     <header>
4       <h1
5         class="text-3xl text-center font-bold my-6 uppercase"
6       >
7         Manage Jobs
8       </h1>
9       <h1
10        class="text-3xl text-center font-bold my-6 uppercase"
11      >
12        Current No. of Jobs: {{$jobCount}}
13      </h1>
14    </header>
15
16    <table class="w-full table-auto rounded-sm">
17      <tbody>
18        @unless($listings->isEmpty())
19          @foreach($listings as $listing)
20            <tr class="border-gray-300">
21              <td
22                class="px-4 py-8 border-t border-b border-gray-300 text-lg"
23              >
24                <a href="show.html">
25                  {{$listing->title}}
26                </a>
27              </td>
28              <td
29                class="px-4 py-8 border-t border-b border-gray-300 text-lg"
30              >
31                <a
32                  href="/listings/{{$listing->id}}/edit"
33                  class="text-blue-400 px-6 py-2 rounded-xl"
34                ><i
35                  class="fa-solid fa-pen-to-square"
36                ></i>
37                Edit</a>
38              </td>
39              <td
40                class="px-4 py-8 border-t border-b border-gray-300 text-lg"
41              >
42                <form method="POST" action="/listings/{{$listing->id}}">
43                  @csrf
44                  @method('DELETE')
45                  <button class="text-red-500"><i class="fa-solid fa-trash"></i>Delete</button>
46                </form>
47              </td>
48            </tr>
49          @endforeach
50          @else
51            <tr class="border-gray-300">
52              <td class="px-4 py-8 border-t border-b border-gray-300 text-lg">
53                <p class="text-center">
54                  No Jobs Found
55                </p>
56              </td>
57            </tr>
58          @endunless
59        </tbody>
60      </table>
61    </div>
62  </x-layout>
```

## 6.0.Components

### 6.1. Card



```
1 <div {{$attributes->merge(['class' => 'bg-gray-50
2 border border-gray-200 rounded p-6']) }}>
3     {{$slot}}
4 </div>
```

### 6.2. Flash Message



```
1 @if(session()->has('message'))
2     <div x-data="{show: true}" x-init="setTimeout( () => show = false, 3000)"
3       x-show="show" class="fixed top-0 left-1/2 transform
4       -translate-x-1/2 bg-laravel text-white px-48 py-3">
5
6       <p>
7         {{session('message')}}
8       </p>
9
10    </div>
11 @endif
```



## 6.3. Job Card

```
1  @props(['listing'])
2
3  <x-card>
4    <div class="flex">
5      
10     <div>
11       <h3 class="text-2xl">
12         <a href="/listings/{{ $listing->id }}">{{ $listing->title }}</a>
13       </h3>
14       <div class="text-xl font-bold mb-4">{{ $listing->company }}</div>
15       <x-listing-tags :tagsCsv="$listing->tags" />
16
17       <div class="text-lg mt-4">
18         <i class="fa-solid fa-location-dot"></i> {{ $listing->location }}
19       </div>
20     </div>
21   </div>
22 </x-card>
```

## 6.4. Job Tags

```
1  @props(['tagsCsv'])
2
3  @php
4  $tags = explode(',', $tagsCsv);
5  @endphp
6
7  <ul class="flex">
8    @foreach($tags as $tag)
9      <li class="flex items-center justify-center bg-black text-white rounded-xl py-1 px-3 mr-2 text-xs">
10        <a href="/?tag={{ $tag }}">{{ $tag }}</a>
11      </li>
12    @endforeach
13  </ul>
```

## 6.5. Layout

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8" />
5   <meta http-equiv="X-UA-Compatible" content="IE=edge" />
6   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
7   <link rel="icon" href="{{asset('images/logo.jpg')}}" />
8   <link
9     rel="stylesheet"
10    href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.1.1/css/all.min.css"
11    integrity="sha512-KfkfwYDsLkIlwQp6Ll8zNdLGXu9VAA1QvwINKs4PhcElQSVqcyVLLD9aMhXdl3uQJ0tXtEKnos0MaZqXgel0=="
12    crossorigin="anonymous"
13    referrerpolicy="no-referrer"
14  />
15  <script src="//unpkg.com/alpinejs" defer></script>
16  <script src="https://cdn.tailwindcss.com"></script>
17  <script>
18    tailwind.config = {
19      theme: {
20        extend: {
21          colors: {
22            laravel: "#000082",
23            hover: "#004d4f",
24          },
25        },
26      },
27    };
28  </script>
29  <title>JOB FINDER</title>
30 </head>
31 <body class="mb-48">
32   <nav class="flex justify-between items-center mb-4">
33     <a href="#" />
34     
35   </a>
36   <ul class="flex space-x-6 mr-6 text-lg">
37     @auth
38       <li>
39         <span class="font-bold uppercase">
40           Welcome {{auth()->user()->name}}
41         </span>
42       </li>
43       @if(auth()->user()->role == 0)
44         <li>
45           <a href="/listings/manage" class="hover:text-laravel">
46             <i class="fa-solid fa-gear"></i>
47             Manage Jobs</a>
48         </li>
49       @endif
50       @if(auth()->user()->role == 1)
51         <li>
52           <a href="/employer" class="hover:text-laravel">
53             <i class="fa-solid fa-user"></i>
54             Profile</a>
55         </li>
56       @endif
57     <li>
58       <form class="inline" method="POST" action="/logout">
59         @csrf
60         <button type="submit" class="hover:text-laravel">
61           <i class="fa-solid fa-door-closed"></i> Logout
62         </button>
63       </form>
64     </li>
65     @else
66     <li>
67       <a href="/register" class="hover:text-laravel">
68         <i class="fa-solid fa-user-plus"></i>
69         Register</a>
70     </li>
71     <li>
72       <a href="/login" class="hover:text-laravel">
73         <i class="fa-solid fa-arrow-right-to-bracket"></i>
74         Login</a>
75     </li>
76   @endauth
77 </ul>
78 </nav>
79 <main>
80   {{{slot}}}
81 </main>
82 <footer
83   class="fixed bottom-0 left-0 w-full flex items-center justify-start font-bold bg-laravel text-white h-24 mt-24 opacity-90 md:justify-center"
84 >
85   <p class="ml-2">Copyright &copy; 2023, All Rights reserved by Kavinduc</p>
86
87   @auth
88     @if(auth()->user()->role == 0)
89       <a
90         href="/listings/create"
91         class="absolute top-1/3 right-10 bg-black text-white py-2 px-5">
92         Post Job</a>
93     @endif
94   @endauth
95 </footer>
96
97 <!-- flash message -->
98 </body>
99 </html>
```

## 7.0.Employee

### 7.1. Profile Page

```
1 <x-layout>
2
3 <div class="bg-gray-50 border border-gray-200 p-10 rounded">
4   <header>
5     <h1
6       class="text-3xl text-center font-bold my-6 uppercase"
7     >
8     BookMarked Jobs
9   </h1>
10  <a href="/employer/{{ $user }}/edit" class="block bg-laravel text-white mt-6 py-2 px-3 mx-auto rounded-xl hover:opacity-80 mb-4">
11    <i class="fa-solid fa-file"></i>
12    Update CV</a>
13  </header>
14
15  <table class="w-full table-auto rounded-sm">
16    <tbody>
17      @unless($bookmarks->isEmpty())
18        @foreach($bookmarks as $bookmark)
19          @auth
20            @if($bookmark->user_id == auth()->user()->id)
21              @foreach($listings as $listing)
22                @if($bookmark->user_id == auth()->user()->id && $listing->id == $bookmark->listing_id)
23                  <tr class="border-gray-300">
24                    <td class="px-4 py-8 border-t border-b border-gray-300 text-lg">
25                      <a href="/listings/{{ $listing->id }}">
26                        {{ $listing->title }}
27                      </a>
28                    </td>
29                    <td class="px-4 py-8 border-t border-b border-gray-300 text-lg">
30                      <form method="POST" action="/bookmark/{{ $bookmark->id }}">
31                        @csrf
32                        @method('DELETE')
33                        <button class="text-red-500"><i class="fa-solid fa-trash"></i>Remove Bookmark</button>
34                      </form>
35                    </td>
36                  </tr>
37                @endif
38              @endforeach
39            @endif
40          @endauth
41        @endforeach
42      @else
43        <tr class="border-gray-300">
44          <td class="px-4 py-8 border-t border-b border-gray-300 text-lg">
45            <p class="text-center">
46              No Jobs Bookmarked
47            </p>
48          </td>
49        </tr>
50      @endunless
51    </tbody>
52  </table>
53 </div>
54 </x-layout>
55
```

## 7.2. Upload CV Page

```
1 <x-layout>
2   <div
3     class="bg-gray-50 border border-gray-200 p-10 rounded max-w-lg mx-auto mt-24"
4   >
5     <header class="text-center">
6       <h2 class="text-2xl font-bold uppercase mb-1">
7         Update CV
8       </h2>
9       <p class="mb-4">Upload your new CV to stay up-to-date.</p>
10    </header>
11
12    <form method="POST" action="/employer/{{ $user->id }}" enctype="multipart/form-data">
13      @csrf
14      @method('PUT')
15      <div class="mb-6">
16        <label for="cv" class="inline-block text-lg mb-2">
17          CV
18        </label>
19        <input
20          type="file"
21          class="border border-gray-200 rounded p-2 w-full"
22          name="cv"
23        />
24        @error('cv')
25        <p class="text-red-500 text-xs mt-2">{{ $message }}</p>
26        @enderror
27      </div>
28      <div class="mb-6">
29        <button
30          type="submit"
31          class="bg-laravel text-white rounded py-2 px-4 hover:bg-black"
32        >
33          Update CV
34        </button>
35      </div>
36    </form>
37  </div>
38 </x-layout>
39
```

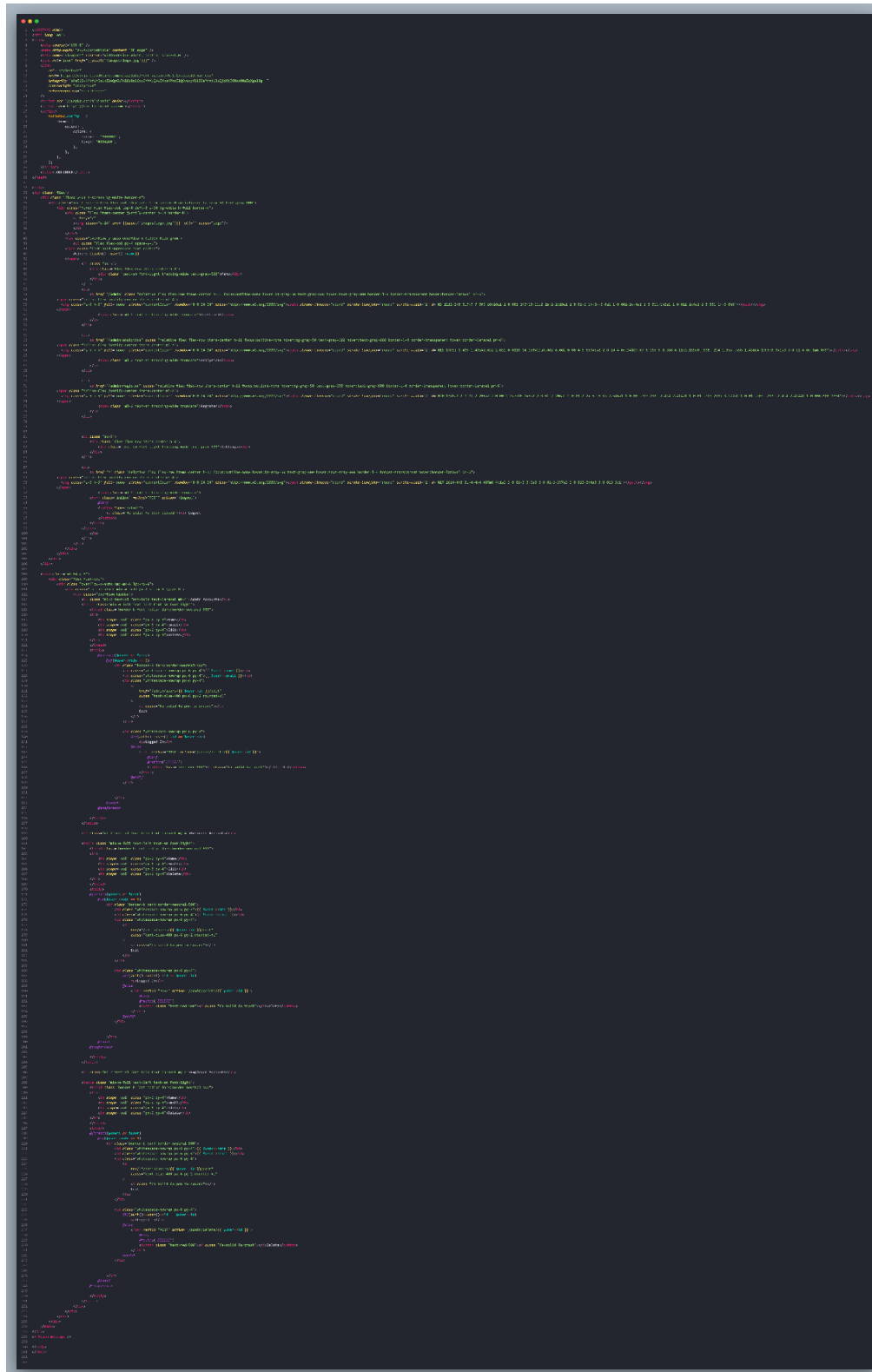
## 8.0.Email

### 8.1. Email Template

```
1 <section class="max-w-2xl px-6 py-8 mx-auto bg-white dark:bg-gray-900">
2   <header>
3     <a href="#">
4       
5     </a>
6   </header>
7
8   <main class="mt-8">
9     <h2 class="text-gray-700 dark:text-gray-200">Hello</h2>
10
11     <p class="mt-2 leading-loose text-gray-600 dark:text-gray-300">
12       {{ $nameUser }} has sent a job application.
13     </p>
14   </main>
15 </section>
16
```

## 9.0.Administrator

### 9.1. Dashboard Page



## 9.2. Analytics Page

```

1  #!/usr/bin/perl
2
3  use strict;
4  use warnings;
5
6  my $VERSION = "1.0.0";
7  my $AUTHOR = "John Doe";
8  my $COPYRIGHT = "Copyright 2023 John Doe";
9
10 my $SYNOPSIS = "Usage: perl script.pl [options]";
11 my $DESCRIPTION = "This script is a simple example of a Perl script. It takes a single argument, a filename, and prints the contents of the file to the standard output. If the file does not exist, it prints an error message and exits with a non-zero status code.";
12
13 my $USAGE = "Usage: perl script.pl [options]";
14 my $OPTIONS = "Options:
15   -h, --help            Show this help message and exit.
16   -v, --version         Show the version number and exit.
17   -f, --file FILENAME   The filename to read from. Required.
18   -o, --output FILENAME The filename to write to. Optional.
19   -s, --silent           Suppress the progress bar and status messages.
20   -q, --quiet            Suppress all output except the final result.
21   -d, --debug            Enable debugging output.
22   -t, --test             Run the test suite.
23   -c, --config FILENAME The path to the configuration file.
24   -e, --env FILENAME     The path to the environment file.
25   -m, --mode MODE        The mode to run in. Default is 'normal'.
26   -n, --no-color         Disable color output.
27   -y, --yes              Assume yes to all prompts.
28   -z, --zero             Output a zero byte at the end of each line.
29   -x, --xargs             Use xargs to process arguments.
30   -w, --width WIDTH      Set the output width. Default is 80.
31   -l, --lines LINES      Set the number of lines in the buffer.
32   -b, --buffer SIZE      Set the buffer size in bytes.
33   -k, --keep              Keep the temporary files.
34   -r, --recursive         Recursively process subdirectories.
35   -i, --in-place          Edit files in place.
36   -u, --unbuffered        Unbuffered output.
37   -C, --chdir DIR         Change to the specified directory.
38   -P, --preserve-root      Do not descend into / or other special directories.
39   -S, --strip-components N Strip N leading components from the path.
40   -L, --label LABEL       Label for the operation.
41   -M, --max-depth DEPTH  Maximum depth to descend.
42   -X, --exclude EXCLUDE   Exclude files matching the pattern.
43   -I, --include INCLUDE   Include files matching the pattern.
44   -J, --json              Output in JSON format.
45   -Y, --yaml              Output in YAML format.
46   -T, --toml              Output in TOML format.
47   -F, --format FORMAT     Output in the specified format.
48   -A, --append            Append to the file instead of overwriting.
49   -U, --update            Update the file if it exists.
50   -D, --dry-run           Show what would be done without making any changes.
51   -V, --verbose           Verbose output.
52   -q, --quiet             Quiet output.
53   -s, --silent            Silent output.
54   -e, --error             Show error messages.
55   -w, --warn              Show warnings.
56   -D, --debug             Show debugging output.
57   -t, --test              Run the test suite.
58   -c, --config FILENAME   The path to the configuration file.
59   -e, --env FILENAME      The path to the environment file.
60   -m, --mode MODE         The mode to run in. Default is 'normal'.
61   -n, --no-color          Disable color output.
62   -y, --yes               Assume yes to all prompts.
63   -z, --zero              Output a zero byte at the end of each line.
64   -x, --xargs             Use xargs to process arguments.
65   -w, --width WIDTH       Set the output width. Default is 80.
66   -l, --lines LINES       Set the number of lines in the buffer.
67   -b, --buffer SIZE       Set the buffer size in bytes.
68   -k, --keep              Keep the temporary files.
69   -r, --recursive         Recursively process subdirectories.
70   -i, --in-place          Edit files in place.
71   -u, --unbuffered        Unbuffered output.
72   -C, --chdir DIR         Change to the specified directory.
73   -P, --preserve-root     Do not descend into / or other special directories.
74   -S, --strip-components N Strip N leading components from the path.
75   -L, --label LABEL       Label for the operation.
76   -M, --max-depth DEPTH  Maximum depth to descend.
77   -X, --exclude EXCLUDE   Exclude files matching the pattern.
78   -I, --include INCLUDE   Include files matching the pattern.
79   -J, --json              Output in JSON format.
80   -Y, --yaml              Output in YAML format.
81   -T, --toml              Output in TOML format.
82   -F, --format FORMAT     Output in the specified format.
83   -A, --append            Append to the file instead of overwriting.
84   -U, --update            Update the file if it exists.
85   -D, --dry-run           Show what would be done without making any changes.
86   -V, --verbose           Verbose output.
87   -q, --quiet             Quiet output.
88   -s, --silent            Silent output.
89   -e, --error             Show error messages.
90   -w, --warn              Show warnings.
91   -D, --debug             Show debugging output.
92   -t, --test              Run the test suite.
93   -c, --config FILENAME   The path to the configuration file.
94   -e, --env FILENAME      The path to the environment file.
95   -m, --mode MODE         The mode to run in. Default is 'normal'.
96   -n, --no-color          Disable color output.
97   -y, --yes               Assume yes to all prompts.
98   -z, --zero              Output a zero byte at the end of each line.
99   -x, --xargs             Use xargs to process arguments.
100  -w, --width WIDTH       Set the output width. Default is 80.
101  -l, --lines LINES       Set the number of lines in the buffer.
102  -b, --buffer SIZE       Set the buffer size in bytes.
103  -k, --keep              Keep the temporary files.
104  -r, --recursive         Recursively process subdirectories.
105  -i, --in-place          Edit files in place.
106  -u, --unbuffered        Unbuffered output.
107  -C, --chdir DIR         Change to the specified directory.
108  -P, --preserve-root     Do not descend into / or other special directories.
109  -S, --strip-components N Strip N leading components from the path.
110  -L, --label LABEL       Label for the operation.
111  -M, --max-depth DEPTH  Maximum depth to descend.
112  -X, --exclude EXCLUDE   Exclude files matching the pattern.
113  -I, --include INCLUDE   Include files matching the pattern.
114  -J, --json              Output in JSON format.
115  -Y, --yaml              Output in YAML format.
116  -T, --toml              Output in TOML format.
117  -F, --format FORMAT     Output in the specified format.
118  -A, --append            Append to the file instead of overwriting.
119  -U, --update            Update the file if it exists.
120  -D, --dry-run           Show what would be done without making any changes.
121  -V, --verbose           Verbose output.
122  -q, --quiet             Quiet output.
123  -s, --silent            Silent output.
124  -e, --error             Show error messages.
125  -w, --warn              Show warnings.
126  -D, --debug             Show debugging output.
127  -t, --test              Run the test suite.
128  -c, --config FILENAME   The path to the configuration file.
129  -e, --env FILENAME      The path to the environment file.
130  -m, --mode MODE         The mode to run in. Default is 'normal'.
131  -n, --no-color          Disable color output.
132  -y, --yes               Assume yes to all prompts.
133  -z, --zero              Output a zero byte at the end of each line.
134  -x, --xargs             Use xargs to process arguments.
135  -w, --width WIDTH       Set the output width. Default is 80.
136  -l, --lines LINES       Set the number of lines in the buffer.
137  -b, --buffer SIZE       Set the buffer size in bytes.
138  -k, --keep              Keep the temporary files.
139  -r, --recursive         Recursively process subdirectories.
140  -i, --in-place          Edit files in place.
141  -u, --unbuffered        Unbuffered output.
142  -C, --chdir DIR         Change to the specified directory.
143  -P, --preserve-root     Do not descend into / or other special directories.
144  -S, --strip-components N Strip N leading components from the path.
145  -L, --label LABEL       Label for the operation.
146  -M, --max-depth DEPTH  Maximum depth to descend.
147  -X, --exclude EXCLUDE   Exclude files matching the pattern.
148  -I, --include INCLUDE   Include files matching the pattern.
149  -J, --json              Output in JSON format.
150  -Y, --yaml              Output in YAML format.
151  -T, --toml              Output in TOML format.
152  -F, --format FORMAT     Output in the specified format.
153  -A, --append            Append to the file instead of overwriting.
154  -U, --update            Update the file if it exists.
155  -D, --dry-run           Show what would be done without making any changes.
156  -V, --verbose           Verbose output.
157  -q, --quiet             Quiet output.
158  -s, --silent            Silent output.
159  -e, --error             Show error messages.
160  -w, --warn              Show warnings.
161  -D, --debug             Show debugging output.
162  -t, --test              Run the test suite.
163  -c, --config FILENAME   The path to the configuration file.
164  -e, --env FILENAME      The path to the environment file.
165  -m, --mode MODE         The mode to run in. Default is 'normal'.
166  -n, --no-color          Disable color output.
167  -y, --yes               Assume yes to all prompts.
168  -z, --zero              Output a zero byte at the end of each line.
169  -x, --xargs             Use xargs to process arguments.
170  -w, --width WIDTH       Set the output width. Default is 80.
171  -l, --lines LINES       Set the number of lines in the buffer.
172  -b, --buffer SIZE       Set the buffer size in bytes.
173  -k, --keep              Keep the temporary files.
174  -r, --recursive         Recursively process subdirectories.
175  -i, --in-place          Edit files in place.
176  -u, --unbuffered        Unbuffered output.
177  -C, --chdir DIR         Change to the specified directory.
178  -P, --preserve-root     Do not descend into / or other special directories.
179  -S, --strip-components N Strip N leading components from the path.
180  -L, --label LABEL       Label for the operation.
181  -M, --max-depth DEPTH  Maximum depth to descend.
182  -X, --exclude EXCLUDE   Exclude files matching the pattern.
183  -I, --include INCLUDE   Include files matching the pattern.
184  -J, --json              Output in JSON format.
185  -Y, --yaml              Output in YAML format.
186  -T, --toml              Output in TOML format.
187  -F, --format FORMAT     Output in the specified format.
188  -A, --append            Append to the file instead of overwriting.
189  -U, --update            Update the file if it exists.
190  -D, --dry-run           Show what would be done without making any changes.
191  -V, --verbose           Verbose output.
192  -q, --quiet             Quiet output.
193  -s, --silent            Silent output.
194  -e, --error             Show error messages.
195  -w, --warn              Show warnings.
196  -D, --debug             Show debugging output.
197  -t, --test              Run the test suite.
198  -c, --config FILENAME   The path to the configuration file.
199  -e, --env FILENAME      The path to the environment file.
200  -m, --mode MODE         The mode to run in. Default is 'normal'.
201  -n, --no-color          Disable color output.
202  -y, --yes               Assume yes to all prompts.
203  -z, --zero              Output a zero byte at the end of each line.
204  -x, --xargs             Use xargs to process arguments.
205  -w, --width WIDTH       Set the output width. Default is 80.
206  -l, --lines LINES       Set the number of lines in the buffer.
207  -b, --buffer SIZE       Set the buffer size in bytes.
208  -k, --keep              Keep the temporary files.
209  -r, --recursive         Recursively process subdirectories.
210  -i, --in-place          Edit files in place.
211  -u, --unbuffered        Unbuffered output.
212  -C, --chdir DIR         Change to the specified directory.
213  -P, --preserve-root     Do not descend into / or other special directories.
214  -S, --strip-components N Strip N leading components from the path.
215  -L, --label LABEL       Label for the operation.
216  -M, --max-depth DEPTH  Maximum depth to descend.
217  -X, --exclude EXCLUDE   Exclude files matching the pattern.
218  -I, --include INCLUDE   Include files matching the pattern.
219  -J, --json              Output in JSON format.
220  -Y, --yaml              Output in YAML format.
221  -T, --toml              Output in TOML format.
222  -F, --format FORMAT     Output in the specified format.
223  -A, --append            Append to the file instead of overwriting.
224  -U, --update            Update the file if it exists.
225  -D, --dry-run           Show what would be done without making any changes.
226  -V, --verbose           Verbose output.
227  -q, --quiet             Quiet output.
228  -s, --silent            Silent output.
229  -e, --error             Show error messages.
230  -w, --warn              Show warnings.
231  -D, --debug             Show debugging output.
232  -t, --test              Run the test suite.
233  -c, --config FILENAME   The path to the configuration file.
234  -e, --env FILENAME      The path to the environment file.
235  -m, --
```

## 9.3. Administrator Register Page

```
1 <x-layout>
2   <div
3     class="bg-gray-50 border border-gray-200 p-10 rounded max-w-lg mx-auto mt-24"
4   >
5     <header class="text-center">
6       <h2 class="text-2xl font-bold uppercase mb-1">
9         Register
10      </h2>
11      <p class="mb-4">Create an admin account</p>
12    </header>
13
14    <form method="POST" action="/admin/users">
15      @csrf
16      <div class="mb-6">
17        <label for="name" class="inline-block text-lg mb-2">
18          Name
19        </label>
20        <input
21          type="text"
22          class="border border-gray-200 rounded p-2 w-full"
23          name="name"
24          value="{{ old('name') }}"
25        />
26        @error('name')
27          <p class="text-red-500 text-xs mt-1">{{ $message }}</p>
28        @enderror
29      </div>
30
31      <div class="mb-6">
32        <label for="email" class="inline-block text-lg mb-2">
33          Email</label>
34        <input
35          type="email"
36          class="border border-gray-200 rounded p-2 w-full"
37          name="email"
38          value="{{ old('email') }}"
39        />
40        @error('email')
41          <p class="text-red-500 text-xs mt-1">{{ $message }}</p>
42        @enderror
43      </div>
44
45      <div class="mb-6">
46        <label
47          for="password"
48          class="inline-block text-lg mb-2"
49        >
50          Password
51        </label>
52        <input
53          type="password"
54          class="border border-gray-200 rounded p-2 w-full"
55          name="password"
56          value="{{ old('password') }}"
57        />
58        @error('password')
59          <p class="text-red-500 text-xs mt-1">{{ $message }}</p>
60        @enderror
61      </div>
62
63      <div class="mb-6">
64        <label
65          for="password2"
66          class="inline-block text-lg mb-2"
67        >
68          Confirm Password
69        </label>
70        <input
71          type="password"
72          class="border border-gray-200 rounded p-2 w-full"
73          name="password_confirmation"
74          value="{{ old('password_confirmation') }}"
75        />
76        @error('password_confirmation')
77          <p class="text-red-500 text-xs mt-1">{{ $message }}</p>
78        @enderror
79      </div>
80
81      <div class="mb-6">
82        <button
83          type="submit"
84          class="bg-laravel text-white rounded py-2 px-4 hover:bg-black"
85        >
86          Sign Up
87        </button>
88      </div>
89    </form>
90  </div>
91 </x-layout>
```



## 9.4. Administrator Edit Page

```
1  <x-layout>
2    <div
3      class="bg-gray-50 border border-gray-200 p-10 rounded max-w-lg mx-auto mt-24"
4    >
5      <header class="text-center">
6        <h2 class="text-2xl font-bold uppercase mb-1">
7          Register
8        </h2>
9        <p class="mb-4">Create an admin account</p>
10     </header>
11
12     <form method="POST" action="/admin/users/{{ $user->id }}">
13       @csrf
14       @method('PUT')
15       <div class="mb-6">
16         <label for="name" class="inline-block text-lg mb-2">
17           Name
18         </label>
19         <input
20           type="text"
21           class="border border-gray-200 rounded p-2 w-full"
22           name="name"
23           value="{{ $user->name }}"
24         />
25         @error('name')
26         <p class="text-red-500 text-xs mt-1">{{ $message }}</p>
27         @enderror
28       </div>
29
30       <div class="mb-6">
31         <button
32           type="submit"
33           class="bg-laravel text-white rounded py-2 px-4 hover:bg-black"
34         >
35           Update User
36         </button>
37       </div>
38     </form>
39   </div>
40 </x-layout>
41
```

## 10.0.Eloquent Models

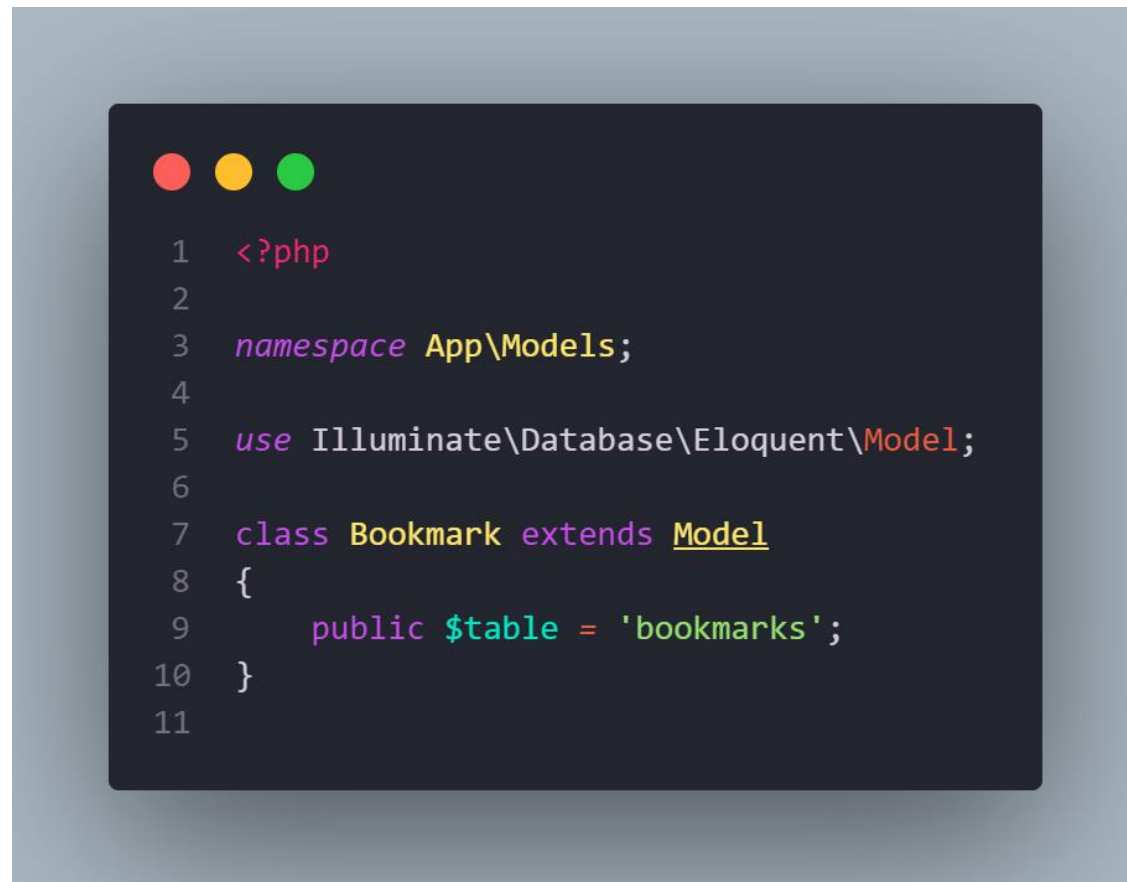
### 10.1. User Model

```
1  <?php
2
3  namespace App\Models;
4
5  // use Illuminate\Contracts\Auth\MustVerifyEmail;
6  use Illuminate\Database\Eloquent\Factories\HasFactory;
7  use Illuminate\Foundation\Auth\User as Authenticatable;
8  use Illuminate\Notifications\Notifiable;
9  use Laravel\Sanctum\HasApiTokens;
10
11 class User extends Authenticatable
12 {
13     use HasApiTokens, HasFactory, Notifiable;
14
15     /**
16      * The attributes that are mass assignable.
17      *
18      * @var array<int, string>
19      */
20     protected $fillable = [
21         'name',
22         'email',
23         'password',
24         'role',
25         'cv'
26     ];
27
28     /**
29      * The attributes that should be hidden for serialization.
30      *
31      * @var array<int, string>
32      */
33     protected $hidden = [
34         'password',
35         'remember_token',
36     ];
37
38     /**
39      * The attributes that should be cast.
40      *
41      * @var array<string, string>
42      */
43     protected $casts = [
44         'email_verified_at' => 'datetime',
45         'password' => 'hashed',
46     ];
47
48     //Relationship With Listings
49     public function listings() {
50         return $this->hasMany(Listing::class, 'user_id');
51     }
52 }
53
```

## 10.2. Job Model

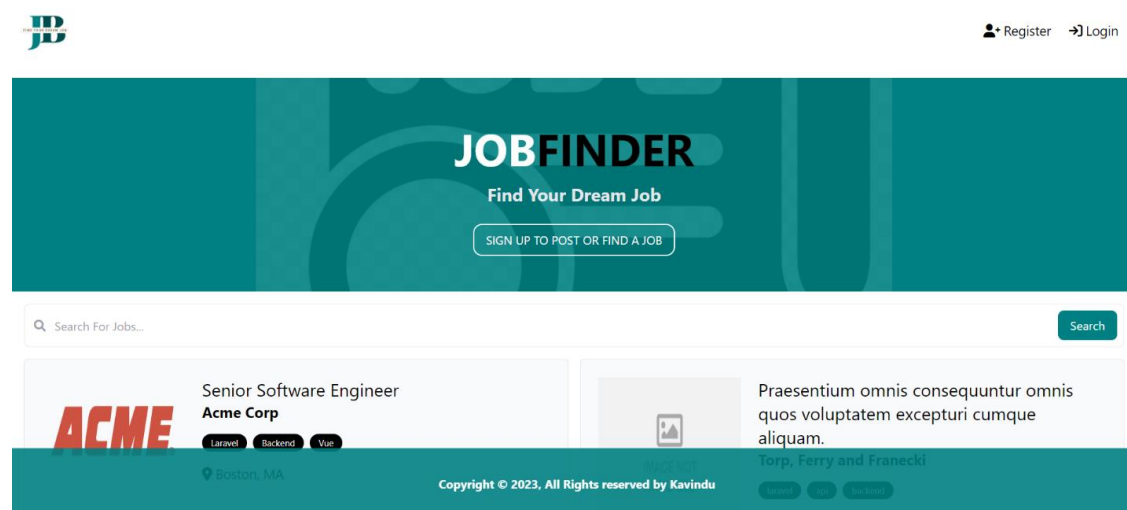
```
1  <?php
2
3  namespace App\Models;
4
5  use Illuminate\Database\Eloquent\Factories\HasFactory;
6  use Illuminate\Database\Eloquent\Model;
7  use Illuminate\Support\Arr;
8
9  class Listing extends Model
10 {
11     use HasFactory;
12
13     protected $fillable = ['title', 'company', 'location', 'website', 'email',
14     'tags', 'description', 'logo', 'user_id'];
15
16     public function scopeFilter($query, array $filters) {
17         if($filters['tag'] ?? false) {
18             $query->where('tags', 'like', '%' . request('tag') . '%');
19         }
20
21         if($filters['search'] ?? false) {
22             $query->where('title', 'like', '%' . request('search') . '%')
23             ->orWhere('description', 'like', '%' . request('search') . '%')
24             ->orWhere('tags', 'like', '%' . request('search') . '%');
25         }
26     }
27
28     // Relationship to user
29     public function user() {
30         return $this->belongsTo(User::class, 'user_id');
31     }
32 }
33
```

### 10.3. Bookmark Model

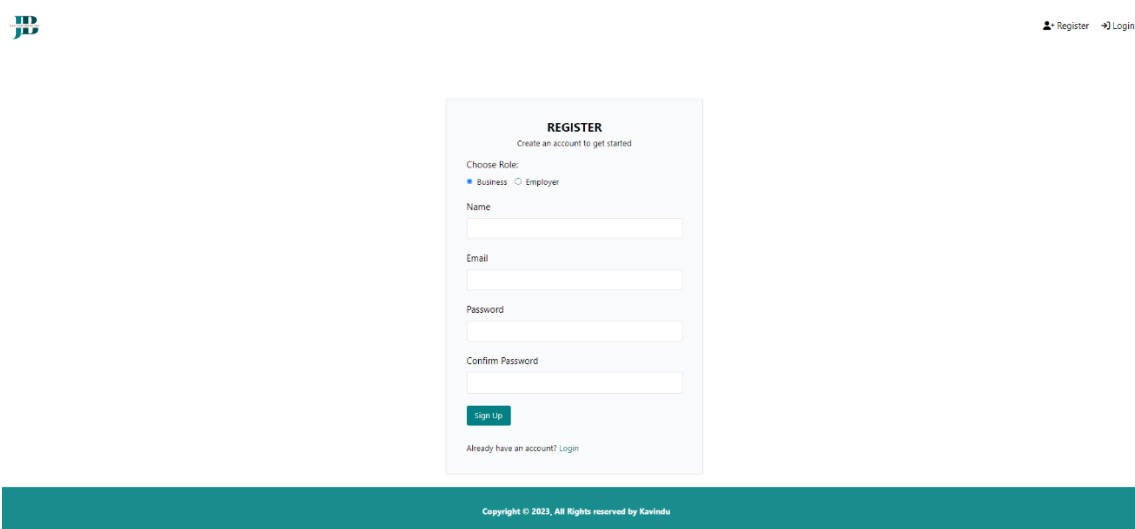


### 11.0. Process

- When the user visits the site, they are directed to the landing page.

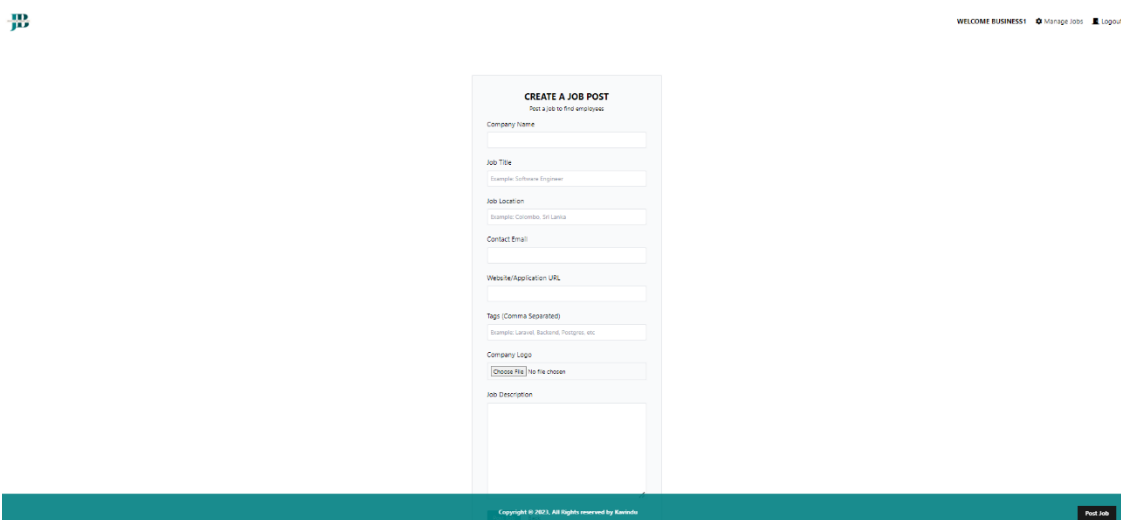


- If the user does not have an account, they can go to the register page to make an account.



The screenshot shows the 'REGISTER' page of a web application. At the top left is a logo, and at the top right are links for 'Register' and 'Login'. The main content area is a light gray box titled 'REGISTER' with the subtitle 'Create an account to get started'. Below this, there's a 'Choose Role:' section with two radio buttons: 'Business' (selected) and 'Employer'. The form includes input fields for 'Name', 'Email', 'Password', and 'Confirm Password'. A green 'Sign Up' button is at the bottom of the form, and a link 'Already have an account? Login' is below it. The footer is a teal bar with the text 'Copyright © 2023, All Rights reserved by Kavindu'.

- If the user registers as a business, they can post jobs.



The screenshot shows the 'CREATE A JOB POST' page. At the top left is a logo, and at the top right is a 'WELCOME BUSINESS!' message with links for 'Manage Jobs' and 'Logout'. The main content area is a light gray box titled 'CREATE A JOB POST' with the subtitle 'Post a job for your employees'. The form includes input fields for 'Company Name', 'Job Title' (with an example 'Software Engineer'), 'Job Location' (with an example 'Colombo, Sri Lanka'), 'Contact Email', 'Website/Application URL', 'Tags (Comma Separated)' (with an example 'Laravel, Bootstrap, PHP, etc'), 'Company Logo' (with a 'Choose File' button and 'No file chosen' text), and a 'Job Description' text area. A green 'Post Job' button is at the bottom right of the form. The footer is a teal bar with the text 'Copyright © 2023, All Rights reserved by Kavindu'.

- After they post jobs, they can manage them by editing or deleting the post.



### MANAGE JOBS

CURRENT NO. OF JOBS: 1

Senior Software Engineer	<a href="#">Edit</a>	<a href="#">Delete</a>
--------------------------	----------------------	------------------------

- If the user registers as an employer, they can bookmark jobs to view them later.



### REGISTER

Create an account to get started

Choose Role:

☐ Business ☒ Employer

Name

Email

CV

[Choose file](#) no file chosen

Password

Confirm Password

[Sign Up](#)

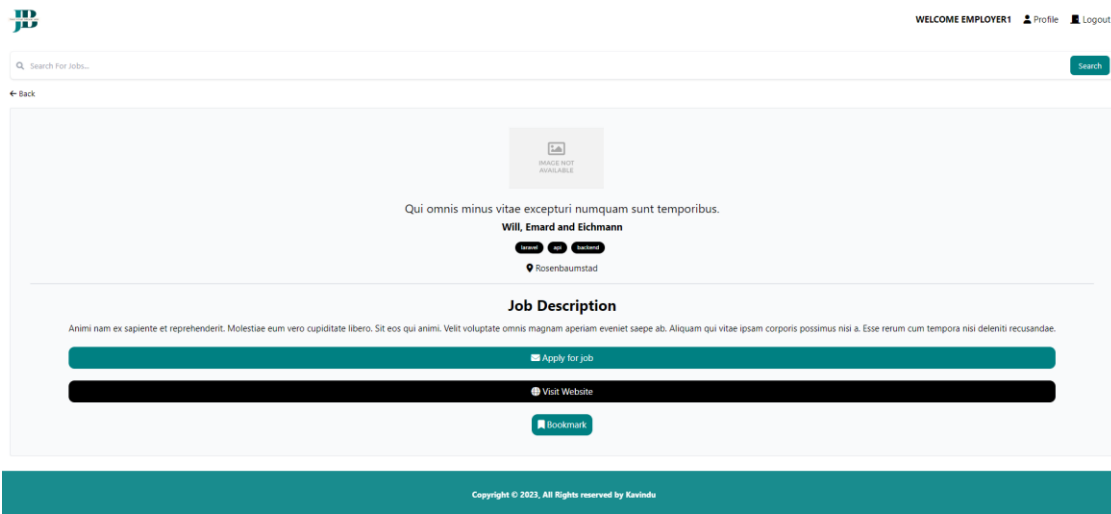


### BOOKMARKED JOBS

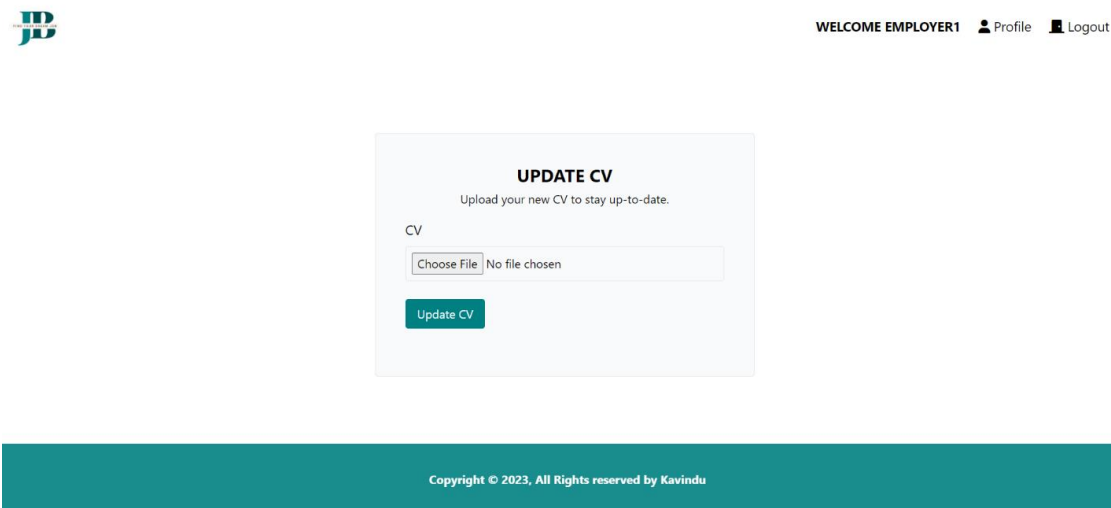
[Update CV](#)

Beatae fuga nisi sapiente maxime repellendus earum qui.	<a href="#">Remove Bookmark</a>
Senior Software Engineer	<a href="#">Remove Bookmark</a>


- They can view jobs and mail their CV with a click of a button.



- Employers can upload their CV.



- If the administrator logs in, they are directed to their dashboard.
- The dashboard contains tables of all user types.



WELCOME ADMIN1

Menu

- Dashboard
- Analytics
- Register
- Settings
- Logout

### Admin Accounts

Name	Email	Edit	Delete
Admin1	admin1@gmail.com	<a href="#">Edit</a>	Logged In
Admin2	admin2@gmail.com	<a href="#">Edit</a>	<a href="#">Delete</a>


### Business Accounts

Name	Email	Edit	Delete
John Doe	john@gmail.com	<a href="#">Edit</a>	<a href="#">Delete</a>
Business1	business1@gmail.com	<a href="#">Edit</a>	<a href="#">Delete</a>
Business2	business2@gmail.com	<a href="#">Edit</a>	<a href="#">Delete</a>

### Employer Accounts

Name	Email	Edit	Delete
Employer1	employer1@gmail.com	<a href="#">Edit</a>	<a href="#">Delete</a>
Employer2	employer2@gmail.com	<a href="#">Edit</a>	<a href="#">Delete</a>

- The analytics page contains information about what's happening on the website.



WELCOME ADMIN1

Menu

- Dashboard
- Analytics
- Register
- Settings
- Logout

Total Users  
7

Total Admin Accounts  
2

Total Business Accounts  
3

Total Employer Accounts  
2

Total Jobs  
8

Total Jobs Posted Today  
0

Total Jobs Posted This Month  
1

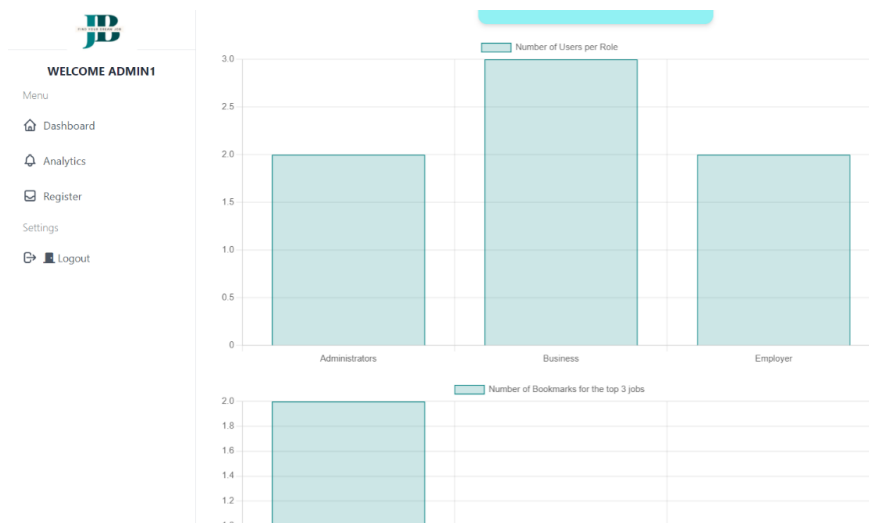
Total Jobs Posted This Year  
8

Total Bookmarks  
6

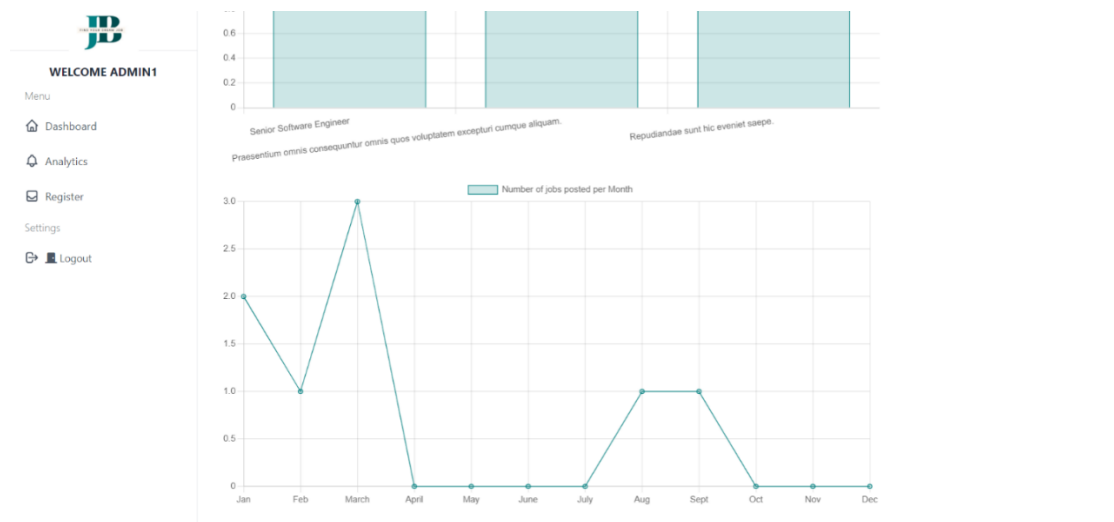
Most Bookmarked Job  
Acme Corp  
Senior Software Engineer

Most Bookmarked Job  
Torp, Ferry  
and Franecki

Most Bookmarked Job  
O'Hara-  
Kehloris







- The administrator can register new administrators, edit them, and delete them.

**REGISTER**  
Create an admin account

Name

Email

Password

Confirm Password

Sign Up

WELCOME ADMIN1 Logout

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**EDIT**  
 Edit an admin account

Name

## 12.0. Features

### 12.1. Administrator

- Edit/ Delete and user.
- View analytical data of the website.
- Register more admin users.

### 12.2. Business

- Can post, edit, and delete posts.

### 12.3. Employer

- Can bookmark jobs.
- Can update their CV.
- Can apply for jobs by mailing their CV.

## 13.0. Test Cases

Test ID	Description	Expected Output	Actual Output	Result
T-01	No role-based functions can be accessed without Login.	Redirect to Login page.	Redirected to Login page.	Pass

T-02	When logged in the access to login and register pages are denied.	Redirect to homepage with a message.	Redirected to homepage with a message.	Pass
T-03	When a business user tries to access functionality of other user roles.	Redirect to homepage with a message.	Redirected to homepage with a message.	Pass
T-04	When an employer user tries to access functionality of other user roles.	Redirect to homepage with a message.	Redirected to homepage with a message.	Pass
T-05	When an admin user tries to access functionality of other user roles.	Redirect to homepage with a message.	Redirected to homepage with a message.	Pass
T-06	An admin user cannot delete an account they are logged in with.	The delete button for that user is not available.	The delete button is not shown and logged is mentioned in that field.	Pass
T-07	Search for a job by the name of the job.	Display the job.	Displays the job.	Pass
T-08	Search for a job by the tag.	Display all jobs with that tag.	Displays all jobs with that tag.	Pass

T-09	Search for a job by the description of the job.	Display a job with a description.	Displays jobs with similar description.	Pass
T-10	If a business role user has no jobs posted.	Display no jobs found.	Displays no jobs. found.	Pass
T-11	If a business role user has jobs posted.	Display the jobs and the number of jobs posted.	Displays the jobs and the number of jobs posted.	Pass
T-12	If an employer role user has no bookmarks.	Display no bookmarks found.	Displays no bookmarks found.	Pass
T-13	If an employer role user has bookmarks	Display the bookmarks in the profile and the bookmark button from that job is not available.	Displays the bookmarks in the profile and the bookmark button from that job is not available.	Pass

#### 14.0. Future Upgrade Plan

The website can be further upgraded to perform better by adding,

- Jobs displayed on the home page are catered towards the employers' previous searches / applied.
- The applying button is not available after an employer has applied once.
- The employer can view the jobs he has already applied to.
- The administrator has more details in the analytics.
- The administrator can remove inappropriate jobs.
- Users can report jobs which are fake or inappropriate.
- A payment feature for businesses for posting their jobs.

## **15.0. Conclusion**

In conclusion, this website will help JobFinder as it gives analytical data which will help them make decisions according to the data provided. This will help their business and can help them target companies with high demand and get them to use the website.