

# DOCUMENTATION

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**University ID: 77356692**

January 20, 2025

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Advanced Web Engineering

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Job Portal (TBC Career Quest)

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## INTRODUCTION

TBC Career Quest is a web-based job portal developed as an assessment project using the Laravel Framework. The primary objective of this project is to provide a seamless and continuous platform for job listings and applications, addressing the limitations of a traditional two-day annual job fair event. With TBC Career Quest, students, alumni, and employers can interact throughout the year, offering a dynamic and accessible solution to career opportunities.

The portal allows employers to post job openings, while students and alumni can explore, apply, and track these opportunities conveniently. It fosters better engagement, saves resources, and ensures that career opportunities are always within reach for the TBC community. This project reflects an innovative approach to bridging the gap between job seekers and providers, enhancing the overall employment experience.

**YouTube Video Link:**

<https://youtu.be/mZYR7xuG1x4>

**Github Respository Link :**

<https://github.com/tbc-bsc-l6/component-2-Agarwal7Tarun>

## TECH STACK

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1. Visual Studio Code
  2. Xampp (Apache, MySQL)
  3. PHP
  4. Composer
  5. Stater Kit: Laravel Breeze
  6. CSS Framework: Bootstrap
  7. JavaScript
  8. Database Used: MySQL
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## PROJECT SETUP GUIDE

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This guide provides step-by-step instructions to set up and execute the TBC Career Quest project. Please follow these steps carefully to ensure the application runs smoothly.

### 1. Setup the Environment

- Create a .env file in the root directory of the project. The .env file is required for configuring the project and has been excluded from the repository for security purposes.
- Add your SMTP credentials in the .env file to enable email functionality (e.g., for notifications or password resets).

### 2. Database Configuration

- Ensure you have a MySQL server running.
- Run the following command to migrate the database and create all necessary tables:

`php artisan migrate`

- A SQL file is provided in the repository. Import this file into your MySQL server to pre-populate the database structure and data.
- Update the .env file with your database credentials (e.g., DB\_DATABASE, DB\_USERNAME, DB\_PASSWORD).

### 3. Run the Application

- Start your MySQL server.
- Launch the project server using the following command:

`php artisan serve`

- The project will now be accessible in your browser at <http://localhost:8000>
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## 4. Accessing the Application

### Login Credentials

- **Admin User**
  - Email: atarun21@tbc.edu.np
  - Password: Test123
- **Standard User**
  - Email: Test@test.com
  - Password: Test123

## 5. Roles and Access

### Admin

- Admin users will see the same interface as standard users upon login.
- Admins have an additional **Admin Panel** option in the header menu. This panel provides **master control**, including:
  - Deleting jobs
  - Editing job details
  - Featuring jobs
  - Managing user-created jobs
  - Overseeing all other functionalities

### Standard User

- Standard users can:
  - Apply for jobs.
  - Create jobs for others to apply to.
- **Note:** Users cannot apply for the jobs they create themselves.

## 6. Additional Notes

- Ensure all required dependencies are installed using:  
composer install  
npm install  
npm run dev

- Test the application after setup to confirm all features are functioning as intended.

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### EXTENDED FEATURES LIST

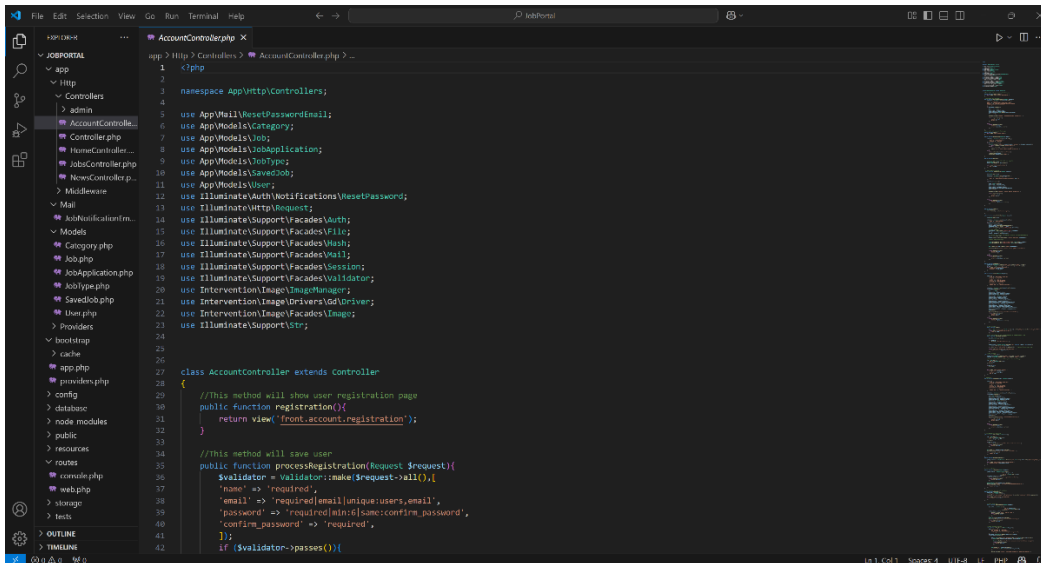
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1. Email Notification
  2. Reset Password
  3. Pagination
  4. News API
  5. Save / Apply / Post Jobs
-

# PICTURES

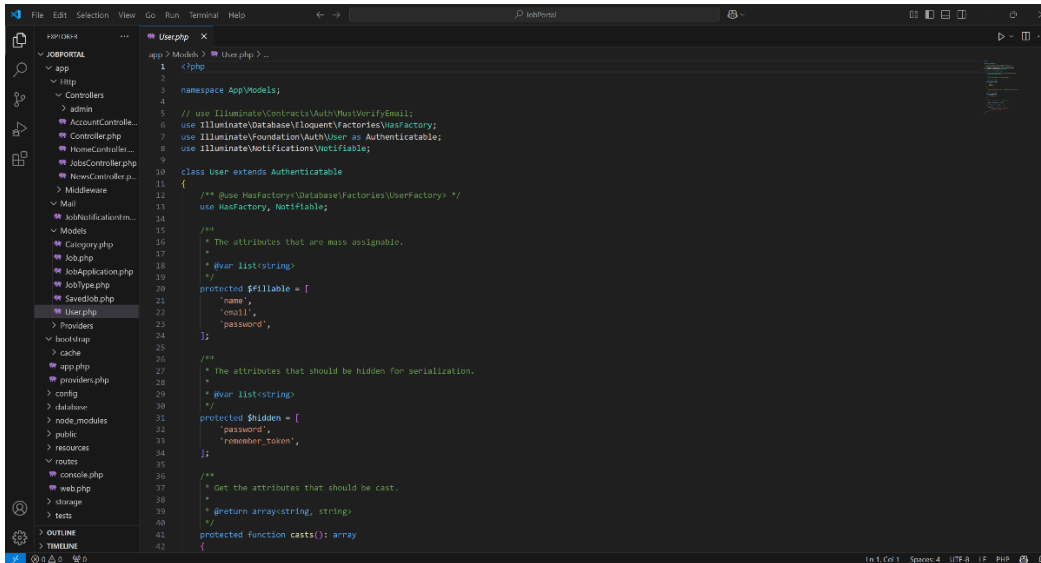
## 1. Source Code

### a. Controllers



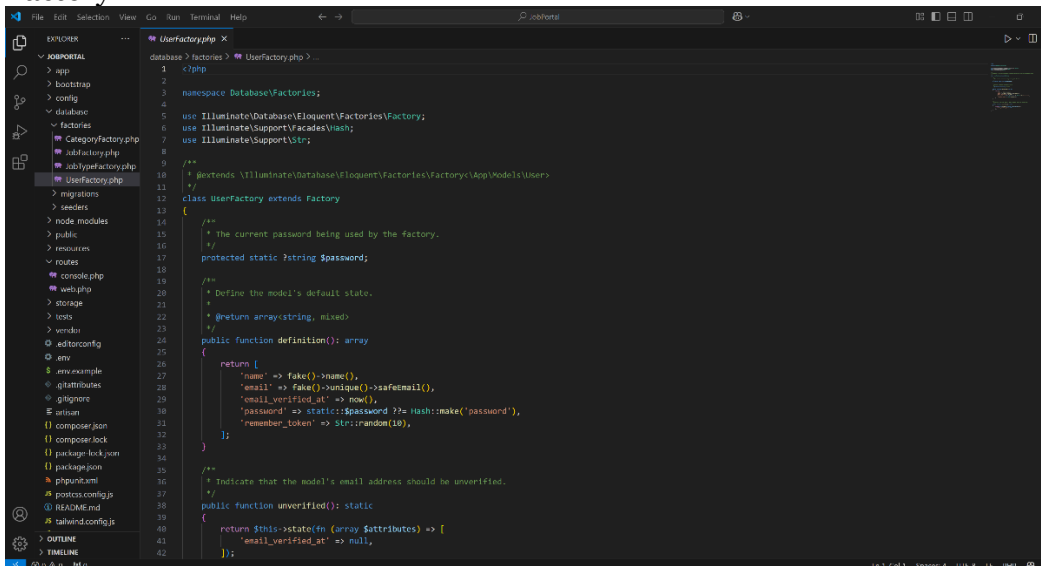
```
1 <?php
2
3 namespace Http\Controllers;
4
5 use App\Mail\ResetPasswordEmail;
6 use App\Models\Category;
7 use App\Models\Job;
8 use App\Models\JobApplication;
9 use App\Models\JobType;
10 use App\Models\SavedJob;
11 use App\Models\User;
12 use Illuminate\Auth\Notifications\ResetPassword;
13 use Illuminate\Http\Request;
14 use Illuminate\Support\Facades\Auth;
15 use Illuminate\Support\Facades\File;
16 use Illuminate\Support\Facades\Hash;
17 use Illuminate\Support\Facades\Mail;
18 use Illuminate\Support\Facades\Session;
19 use Illuminate\Support\Facades\Validator;
20 use Intervention\Image\ImageManager;
21 use Intervention\Image\Drivers\GdDriver;
22 use Intervention\Image\Facades\Image;
23 use Illuminate\Support\Uri;
24
25
26
27
28 class AccountController extends Controller
29 {
30     //This method will show user registration page
31     public function registration()
32     {
33         return view('front.account.registration');
34     }
35
36     //This method will save user
37     public function processRegistration(Request $request)
38     {
39         $validator = Validator::make($request->all(), [
40             'name' => 'required',
41             'email' => 'required|email|unique:users,email',
42             'password' => 'required|min:6|same:confirm_password',
43             'confirm_password' => 'required',
44         ]);
45         if ($validator->passes()) {
46
47         }
```

### b. Models



```
1 <?php
2
3 namespace App\Models;
4
5 // use Illuminate\Contracts\Auth\UserInterface;
6 use Illuminate\Database\Eloquent\Factories\HasFactory;
7 use Illuminate\Foundation\Auth\User as Authenticatable;
8 use Illuminate\Notifications\Notifiable;
9
10 class User extends Authenticatable
11 {
12     /** @use HasFactory<Database\Factories\UserFactory> */
13     use HasFactory, Notifiable;
14
15     /**
16      * The attributes that are mass assignable.
17      *
18      * @var list<string>
19      */
20     protected $fillable = [
21         'name',
22         'email',
23         'password',
24     ];
25
26     /**
27      * The attributes that should be hidden for serialization.
28      *
29      * @var list<string>
30      */
31     protected $hidden = [
32         'password',
33         'remember_token',
34     ];
35
36     /**
37      * Get the attributes that should be cast.
38      *
39      * @return array<string, string>
40      */
41     protected function casts(): array
42     {
43     }
```

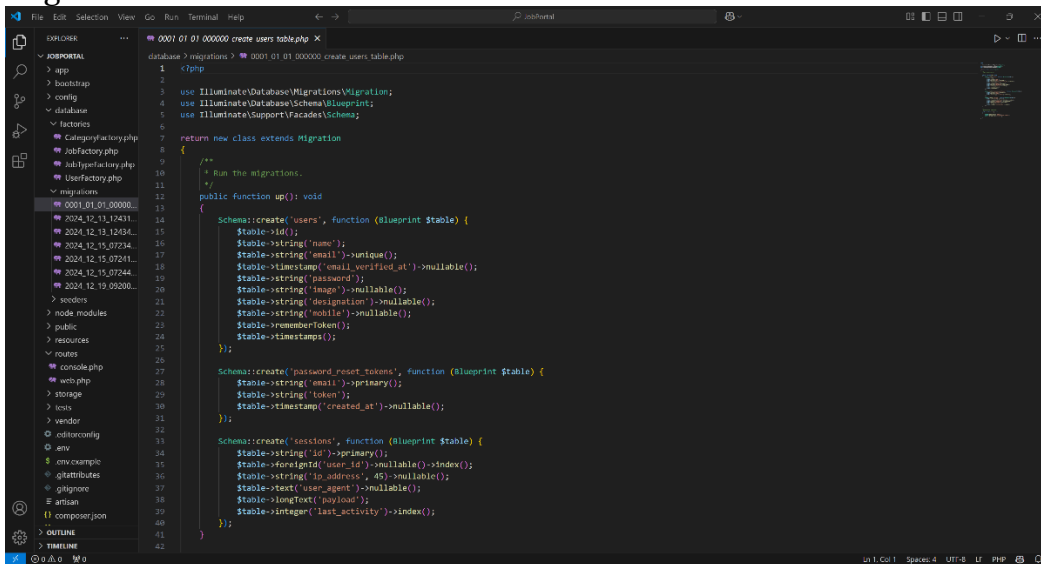
### c. Factory



```
1 <?php
2
3 namespace Database\Factories;
4
5 use Illuminate\Database\Eloquent\Factories\Factory;
6 use Illuminate\Support\Facades\Hash;
7 use Illuminate\Support\Str;
8
9 /**
10  * @extends <Illuminate\Database\Eloquent\Factories\Factory<App\Models\User>
11  */
12 class UserFactory extends Factory
13 {
14     /**
15      * The current password being used by the factory.
16      */
17     protected static ?string $password;
18
19     /**
20      * Define the model's default state.
21      *
22      * @return array<string, mixed>
23      */
24     public function definition(): array
25     {
26         return [
27             'name' => fake()->name(),
28             'email' => fake()->unique()->safemail(),
29             'email_verified_at' => now(),
30             'password' => static::$password ??= Hash::make('password'),
31             'remember_token' => Str::random(10),
32         ];
33     }
34
35     /**
36      * Indicate that the model's email address should be unverified.
37      */
38     public function unverified(): static
39     {
40         return $this->state(fn (array $attributes) => [
41             'email_verified_at' => null,
42         ]);
43     }
```

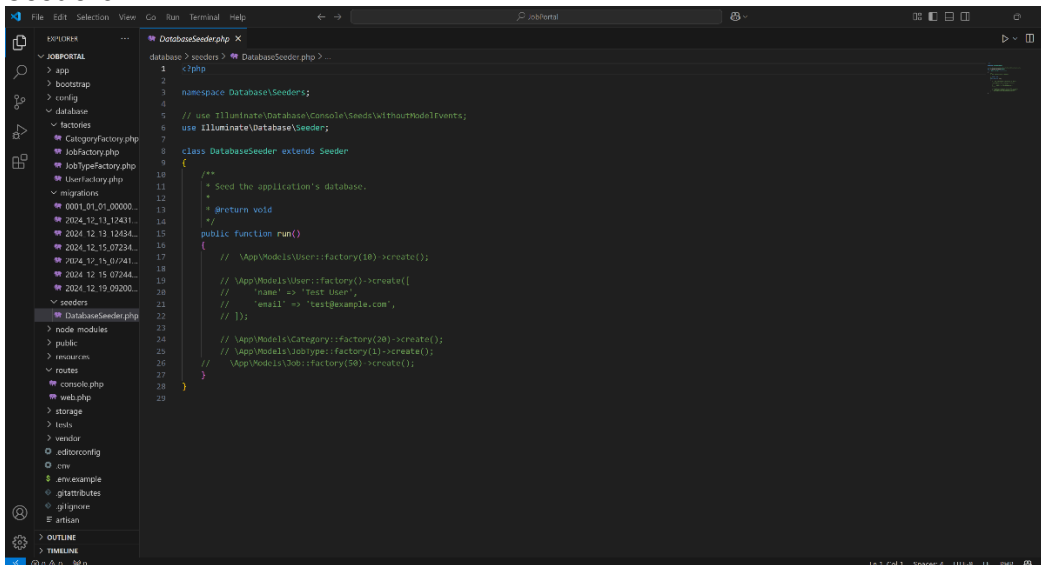


## d. Migration



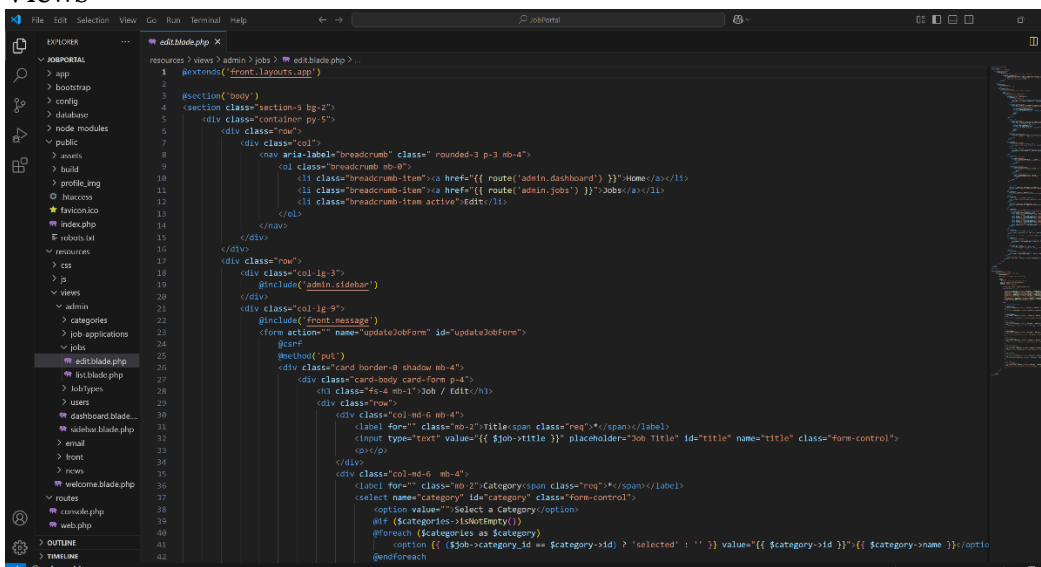
```
0001_01_01_000000 create users table.php
1 <?php
2
3 use Illuminate\Database\Migrations\Migration;
4 use Illuminate\Database\Schema\Blueprint;
5 use Illuminate\Support\Facades\Schema;
6
7 return new class extends Migration
8 {
9     /**
10      * Run the migrations.
11      */
12     public function up(): void
13     {
14         Schema::create('users', function (Blueprint $table) {
15             $table->id();
16             $table->string('name');
17             $table->string('email')->unique();
18             $table->timestamp('email_verified_at')->nullable();
19             $table->string('password');
20             $table->string('image')->nullable();
21             $table->string('designation')->nullable();
22             $table->string('mobile')->nullable();
23             $table->rememberToken();
24             $table->timestamps();
25         });
26
27         Schema::create('password_reset_tokens', function (Blueprint $table) {
28             $table->string('email')->primary();
29             $table->string('token');
30             $table->timestamp('created_at')->nullable();
31         });
32
33         Schema::create('sessions', function (Blueprint $table) {
34             $table->string('id')->primary();
35             $table->foreignId('user_id')->nullable()->index();
36             $table->string('ip_address', 45)->nullable();
37             $table->text('user_agent')->nullable();
38             $table->longText('payload');
39             $table->integer('last_activity')->index();
40         });
41     }
42 }
```

## e. Seeders



```
DatabaseSeeder.php
1 <?php
2
3 namespace Database\Seeders;
4
5 // use Illuminate\Database\Console\Seeds\WithoutModelEvents;
6 use Illuminate\Database\Seeder;
7
8 class DatabaseSeeder extends Seeder
9 {
10     /**
11      * Seed the application's database.
12      */
13     //return void
14     public function run()
15     {
16         // App\Models\User::factory(10)->create();
17
18         // App\Models\User::factory()->create([
19             // 'name' => 'Test User',
20             // 'email' => 'test@example.com',
21             // ]);
22
23         // App\Models\Category::factory(20)->create();
24         // App\Models\Jobtype::factory(1)->create();
25         // App\Models\Job::factory(50)->create();
26     }
27 }
```

## f. Views



```
edit.blade.php
1 @extends('front.layouts.app')
2
3 @section('body')
4 <section class="section-3 bg-2">
5     <div class="container py-9">
6         <div class="row">
7             <div class="col">
8                 <nav aria-label="breadcrumb" class="rounded-3 p-3 mb-4">
9                     <ol class="breadcrumb mb-0">
10                         <li class="breadcrumb-item"><a href="{{ route('admin.dashboard') }}">Home</a></li>
11                         <li class="breadcrumb-item"><a href="{{ route('admin.jobs') }}">Jobs</a></li>
12                         <li class="breadcrumb-item active">Edit</li>
13                     </ol>
14                 </nav>
15             </div>
16             <div class="row">
17                 <div class="col-1g-3">
18                     @include('admin.sidebar')
19                 </div>
20                 <div class="col-1g-9">
21                     @include('front.message')
22                     <form action="" name="updateJobForm" id="updateJobForm">
23                         @csrf
24                         @method('put')
25                         <div class="card border-0 shadow mb-4">
26                             <div class="card-body card-form p-4">
27                                 <div class="fs-4 mb-1">Job / Edit</div>
28                                 <div class="row">
29                                     <div class="col-md-6 mb-4">
30                                         <label form="" class="mb-2">Title</label>
31                                         <input type="text" value="{{ $job->title }}" placeholder="Job Title" id="title" name="title" class="form-control">
32                                     </div>
33                                     <div class="col-md-6 mb-4">
34                                         <label form="" class="mb-2">Category</label>
35                                         <select name="category" id="category" class="form-control">
36                                             <option value="">Select a Category</option>
37                                             @foreach ($categories->sortBy('id'))
38                                                 <option {{ ($job->category_id == $category->id) ? 'selected' : '' }} value="{{ $category->id }}">{{ $category->name }}</option>
39                                             @endforeach
40                                         </select>
41                                     </div>
42                                 </div>
43                             </div>
44                         </div>
45                     </div>
46                 </div>
47             </div>
48         </div>
49     </section>
50 @endsection
```

## g. Routes

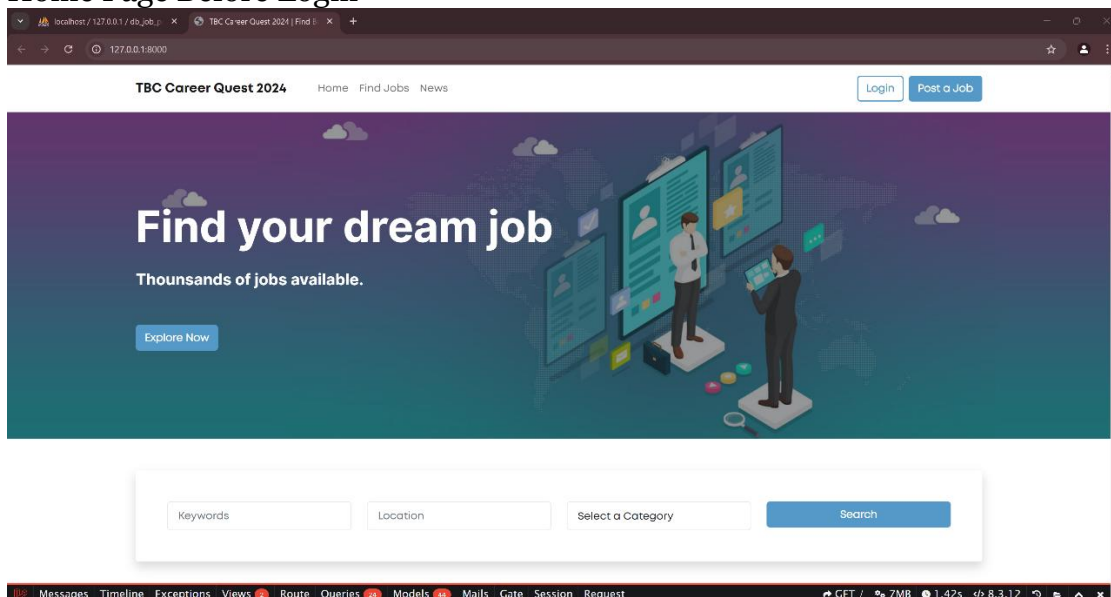
```
routes.php
1 <?php
2 use App\Http\Controllers\AccountController;
3 use App\Http\Controllers\Admin\CategoryController;
4 use App\Http\Controllers\Admin\DashboardController;
5 use App\Http\Controllers\Admin\JobApplicationController;
6 use App\Http\Controllers\Admin\JobController;
7 use App\Http\Controllers\Admin\JobTypeController;
8 use App\Http\Controllers\Admin\UserController;
9 use App\Http\Controllers\HomeController;
10 use App\Http\Controllers\JobsController;
11 use Illuminate\Support\Facades\Route;
12 use App\Http\Controllers\NewsController;
13
14
15 // Public Routes
16 Route::get('/', [HomeController::class, 'index'])->name('home');
17 Route::get('/jobs', [JobsController::class, 'index'])->name('jobs');
18 Route::get('/jobs/detail/{id}', [JobsController::class, 'jobDetail'])->name('jobDetail');
19
20 // Apply Job Route
21 Route::post('/apply-job', [JobsController::class, 'applyJob'])->name('applyJob');
22 Route::post('/save-job', [JobsController::class, 'saveJob'])->name('saveJob');
23 Route::get('/news', [NewsController::class, 'index'])->name('news.index');
24
25 // Guest Middleware Routes
26 Route::prefix('account')->group(function () {
27     // Guest Middleware Routes
28     Route::middleware('guest')->group(function () {
29         Route::get('/register', [AccountController::class, 'registration'])->name('account.registration');
30         Route::post('/process-register', [AccountController::class, 'processRegistration'])->name('account.processRegistration');
31         Route::get('/login', [AccountController::class, 'login'])->name('account.login');
32         Route::post('/authenticate', [AccountController::class, 'authenticate'])->name('account.authenticate');
33     });
34
35     // Auth Middleware Routes
36     Route::middleware('auth')->group(function () {
37         Route::get('/profile', [AccountController::class, 'profile'])->name('account.profile');
38         Route::post('/update-profile', [AccountController::class, 'updateProfile'])->name('account.updateProfile');
39         Route::get('/logout', [AccountController::class, 'logout'])->name('account.logout');
40         Route::post('/update-profileing', [AccountController::class, 'updateProfileing'])->name('account.updateProfileing');
41         Route::get('/createJob', [AccountController::class, 'createJob'])->name('account.createJob');
42         Route::get('/view-job-applications', [AccountController::class, 'viewJobApplications'])->name('account.viewJobApplications');
43         Route::post('/save-job', [AccountController::class, 'saveJob'])->name('account.saveJob');
44     });
45 });
```

## h. .env

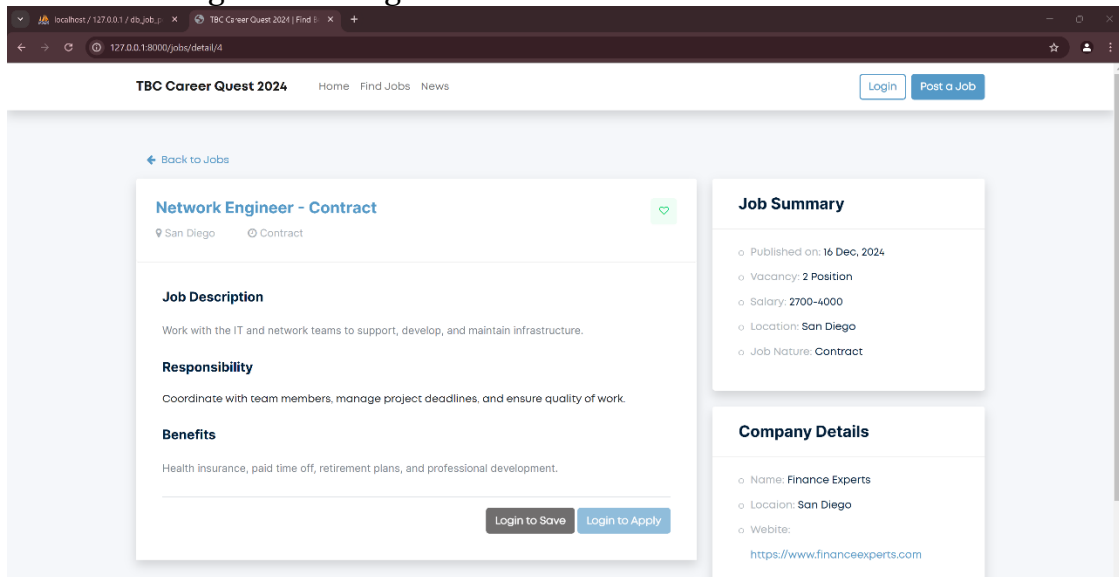
```
.env
1 APP_NAME=Laravel
2 APP_ENV=local
3 APP_KEY=base64:G0Yb7eyagv6gkdyvN5svMZDGS8MPVjONLlhP7A=
4 APP_DEBUG=true
5 APP_TIMEZONE=UTC
6 APP_URL=http://localhost
7
8 APP_LOCALE=en
9 APP_FALLBACK_LOCALE=en
10 APP_FAKER_LOCALE=en_US
11
12 APP_MAINTENANCE_DRIVER=file
13 # APP_MAINTENANCE_STORE=database
14
15 PHP_CLI_SERVER_WORKERS=4
16
17 BCRYPT_ROUNDS=12
18
19 LOG_CHANNEL=stack
20 LOG_STACK=single
21 LOG_DEPRECATIONS_CHANNEL=null
22 LOG_LEVEL=debug
23
24 DB_CONNECTION=mysql
25 DB_HOST=127.0.0.1
26 DB_PORT=3306
27 DB_DATABASE=db_job_portal
28 DB_USERNAME=root
29 DB_PASSWORD=
30
31 SESSION_DRIVER=database
32 SESSION_LIFETIME=120
33 SESSION_ENCRYPT=false
34 SESSION_PATH=/
35 SESSION_DOMAIN=null
36
37 BROADCAST_CONNECTION=log
38 FILESYSTEM_DISK=local
39 QUEUE_CONNECTION=database
40
41 CACHE_STORE=database
42 CACHE_PREFIX=
```

## 2. Website Before Login

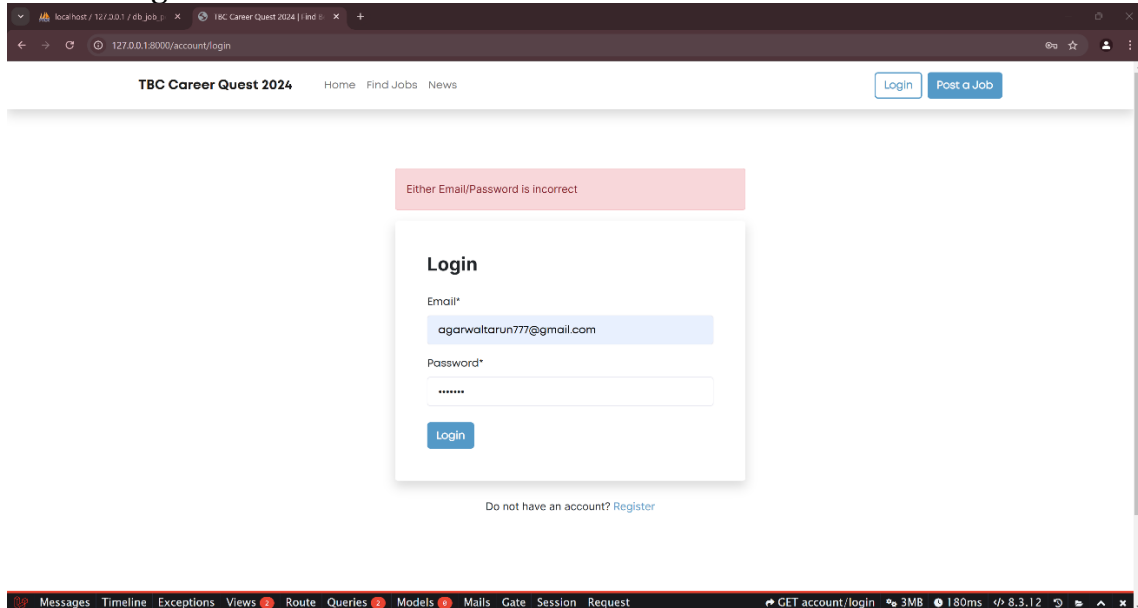
### a. Home Page Before Login



## b. Job Details Page Before Login

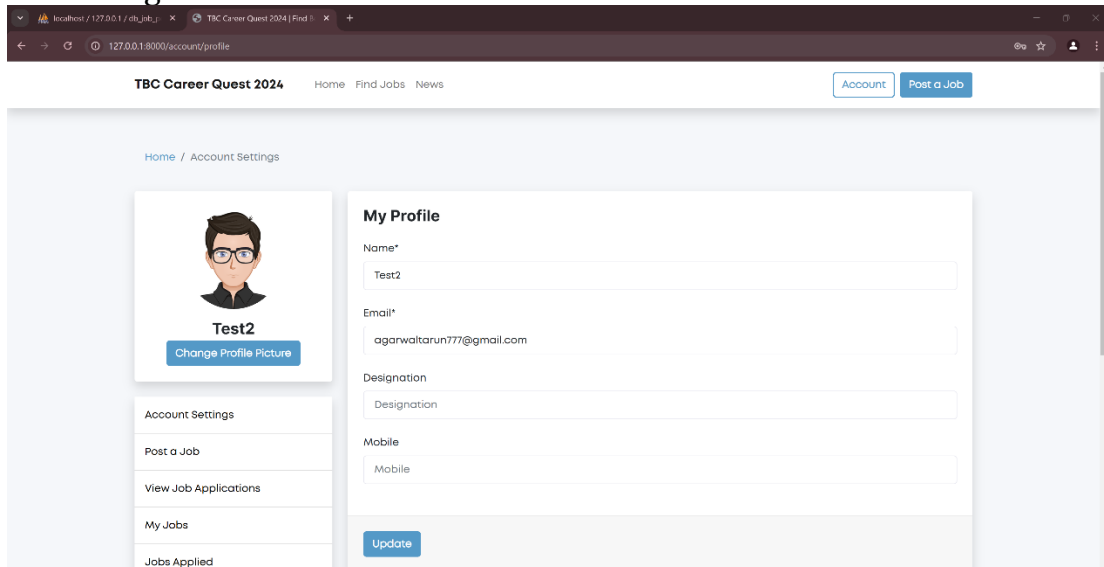


## c. Invalid Login Credentials



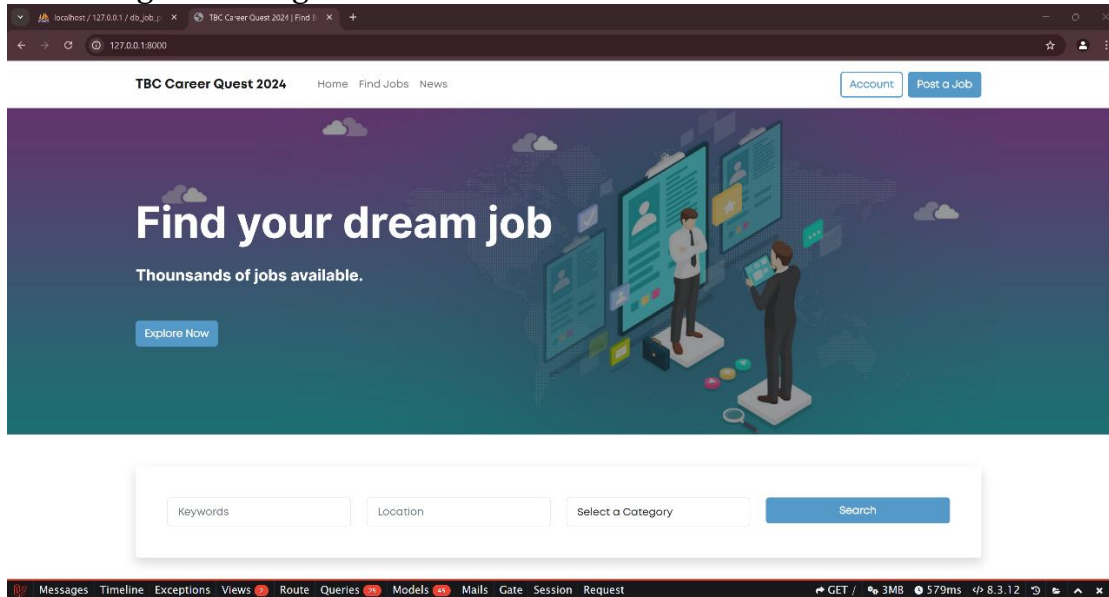
## 3. Website After User Login

### a. Profile Page

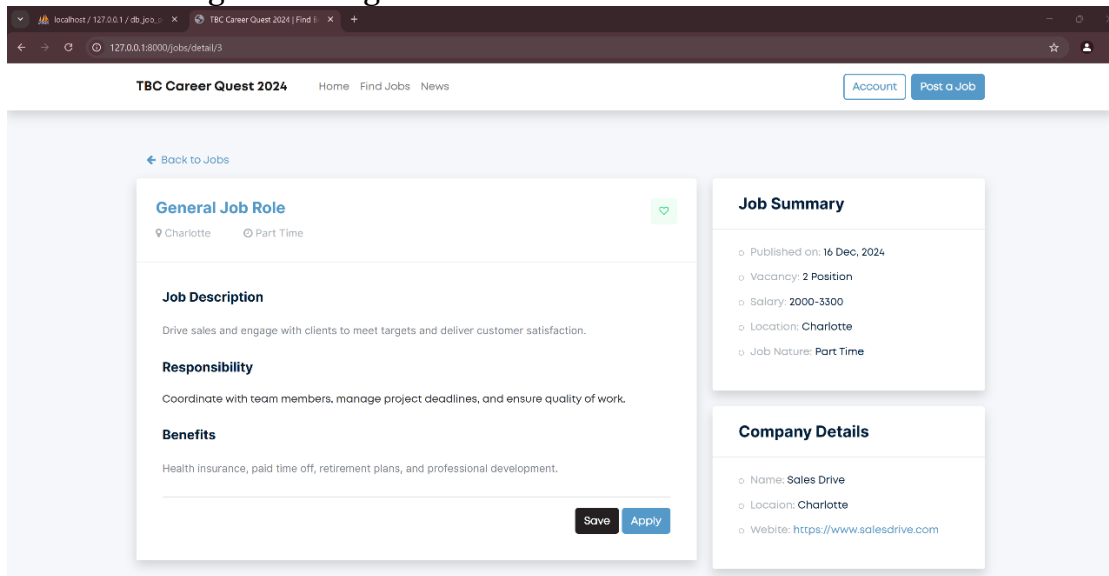




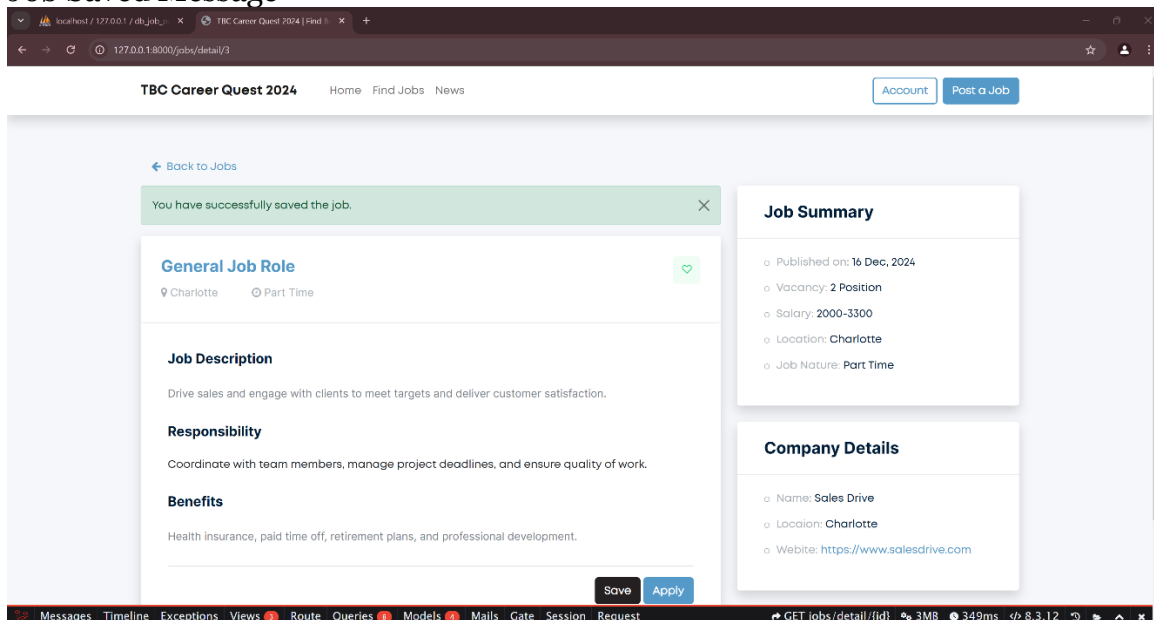
## b. Home Page After Login



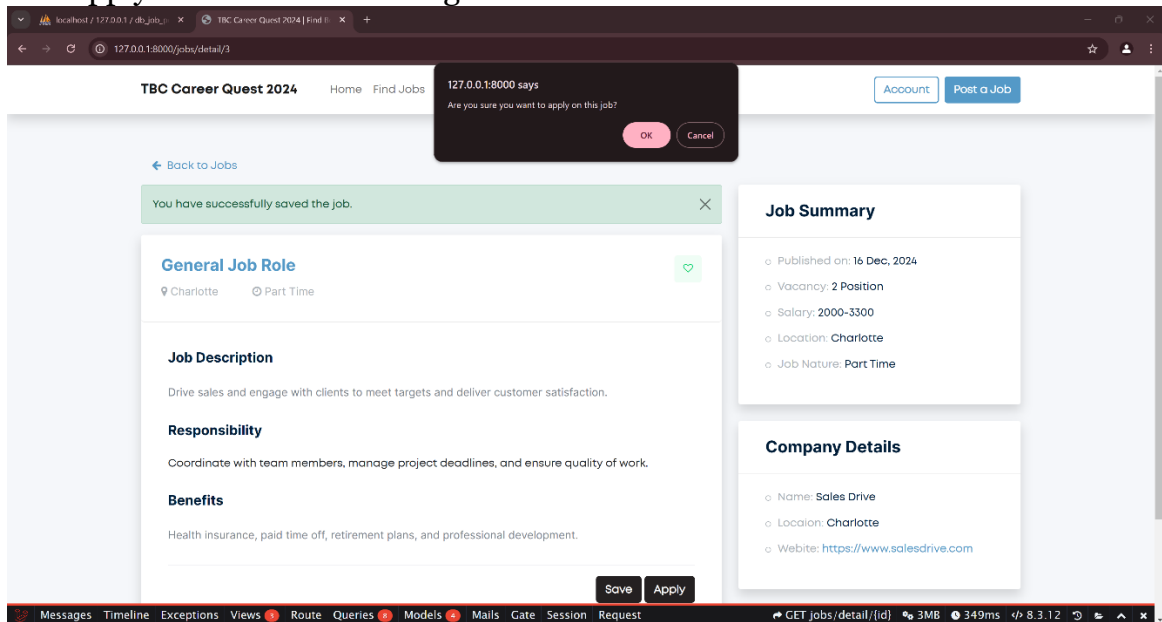
## c. Job Details Page After Login



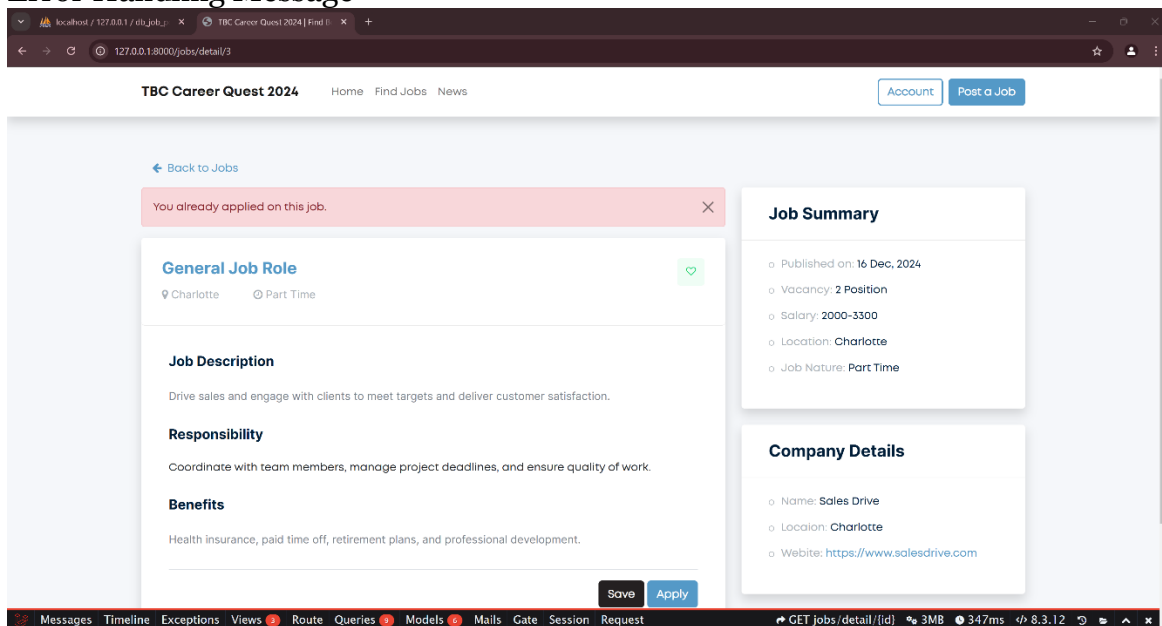
## d. Job Saved Message



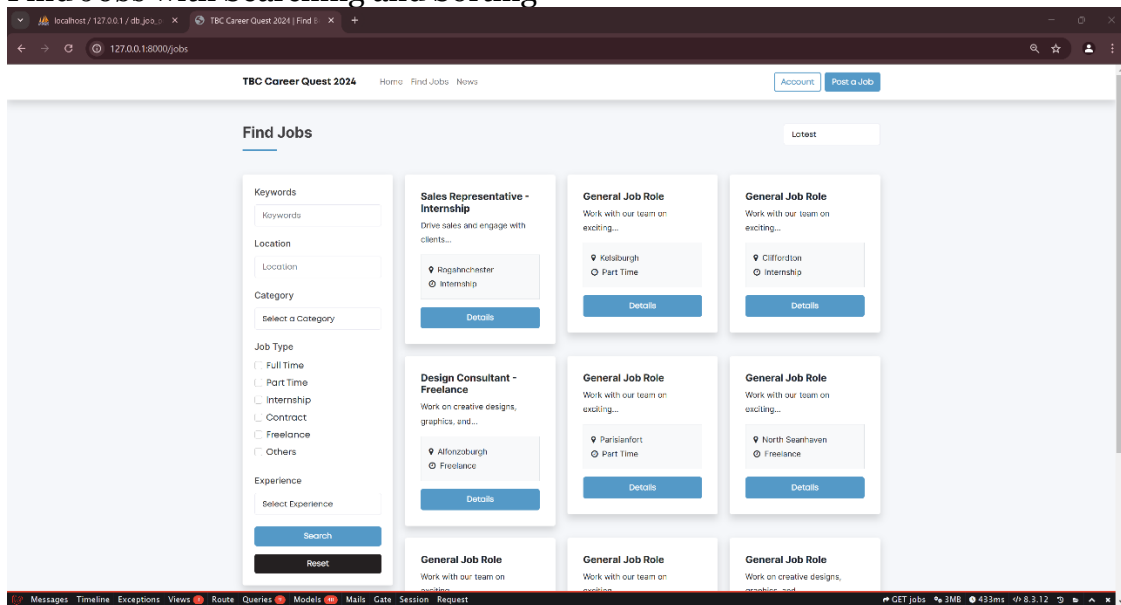
## e. Job Apply Confirmation Message



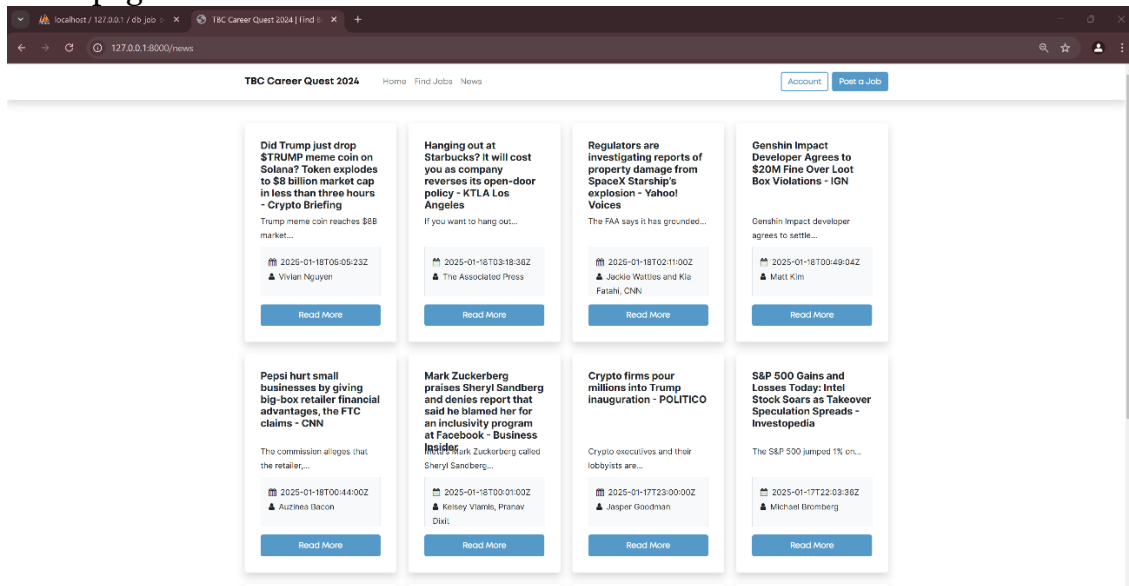
## f. Error Handling Message



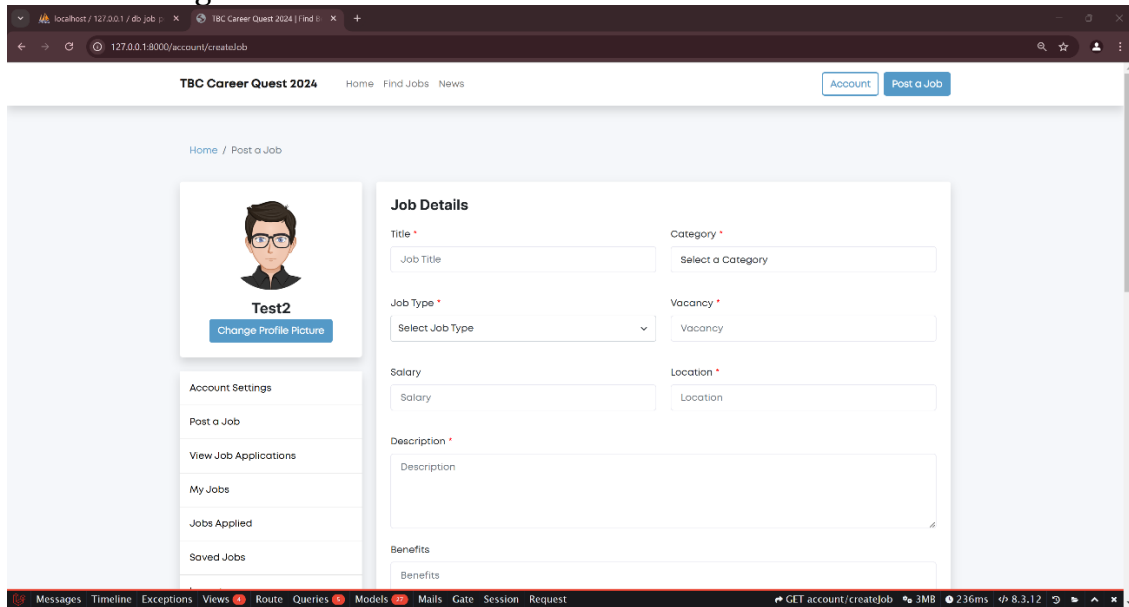
## g. Find Jobs with Searching and Sorting



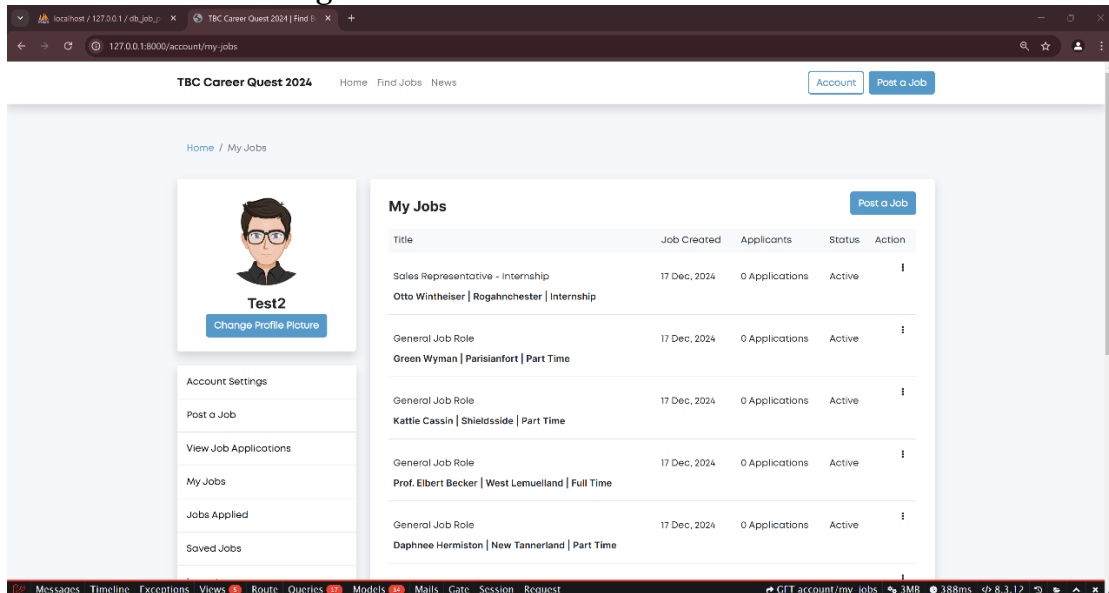
## h. News page fetched Via API



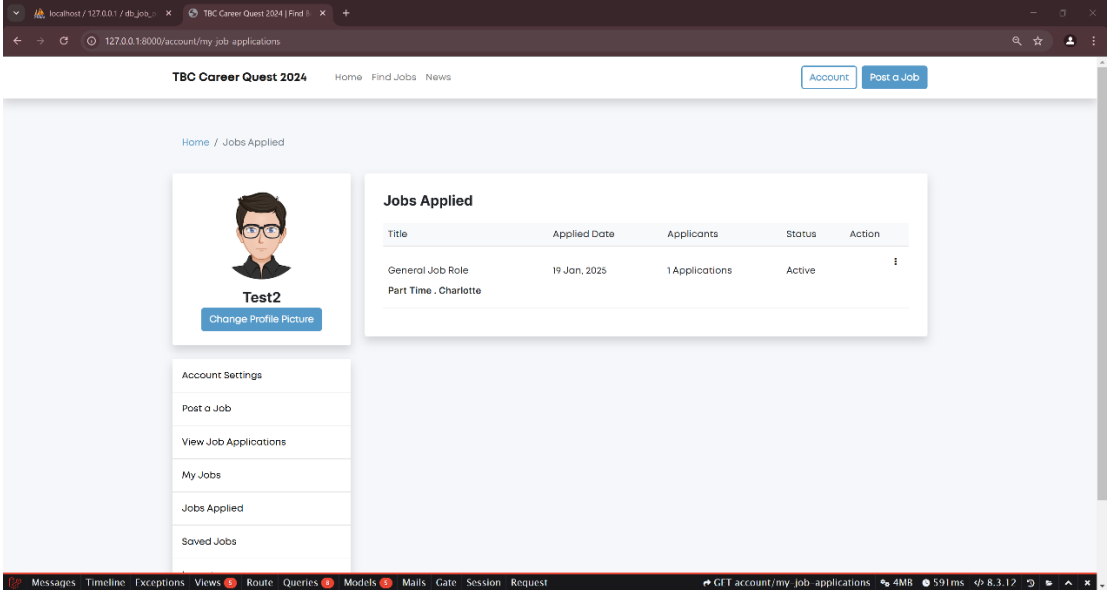
## i. Post a Job Page



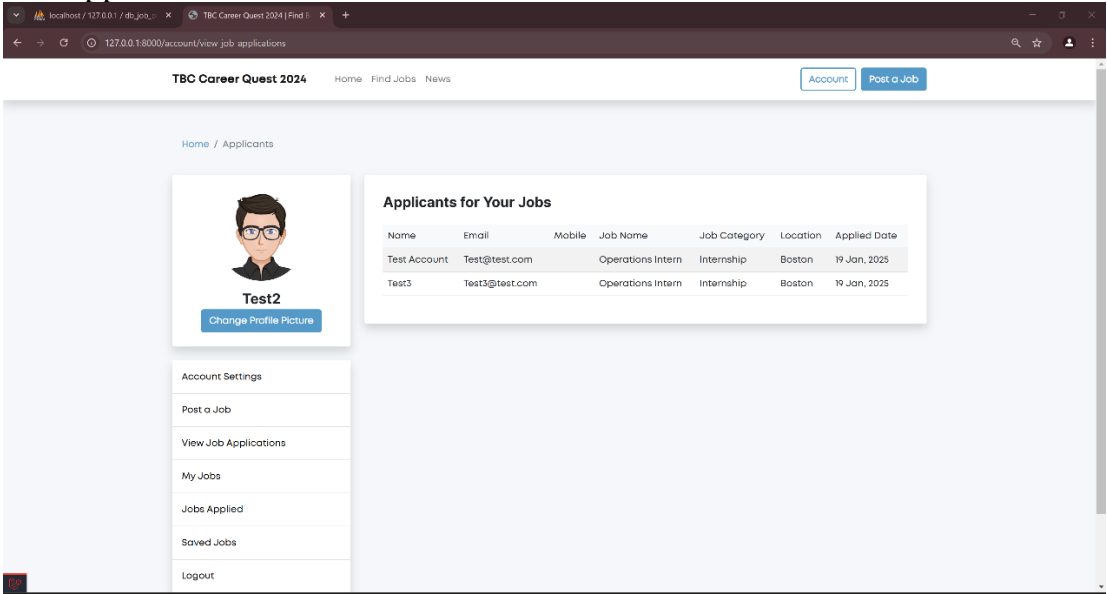
## j. Self-Posted Job Listing



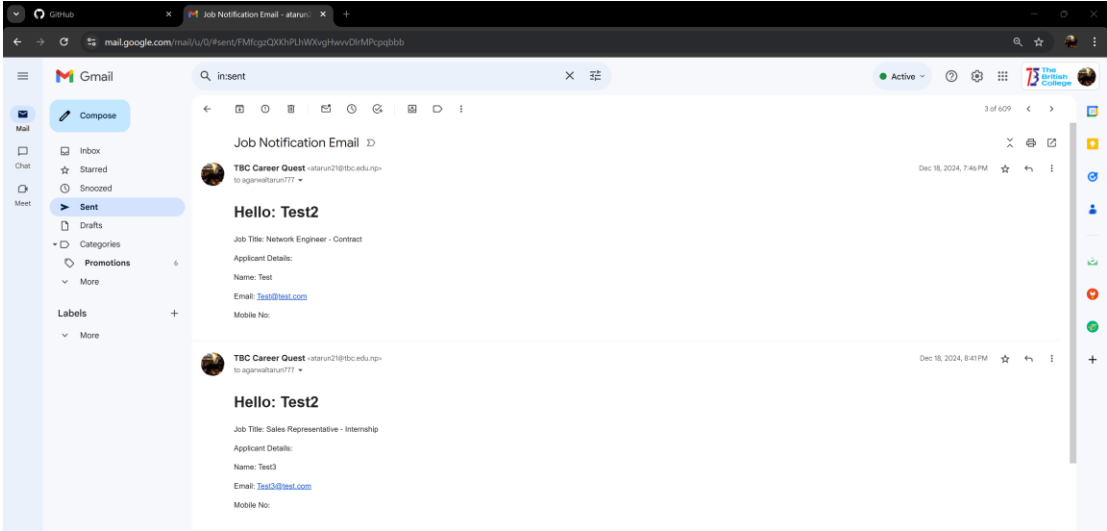
k. Self-Applied Jobs Applications



l. Job Applicants

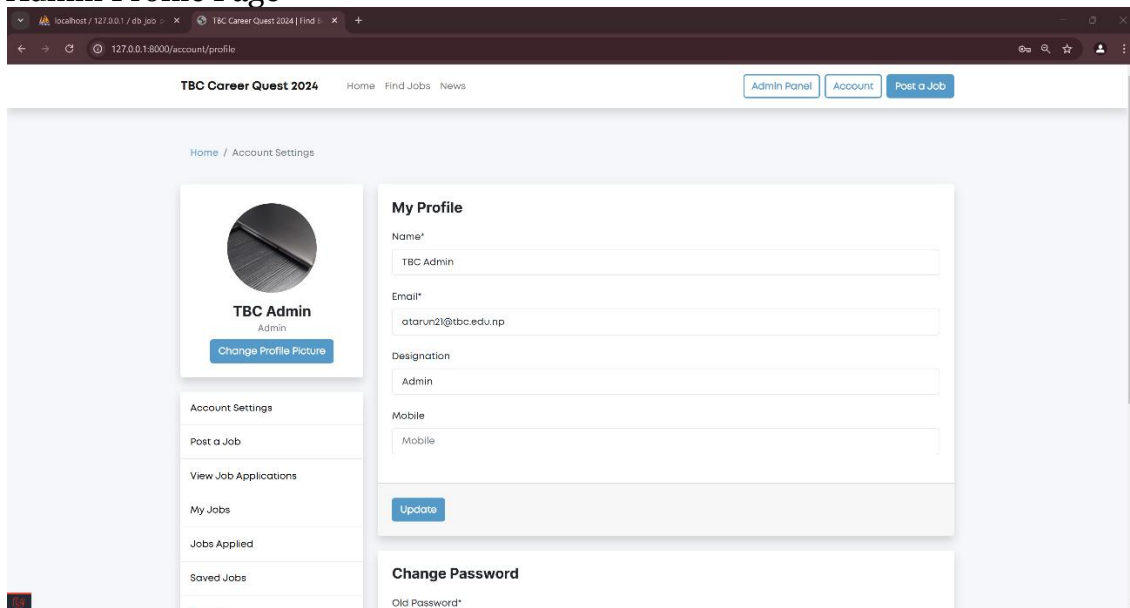


m. Email Notification



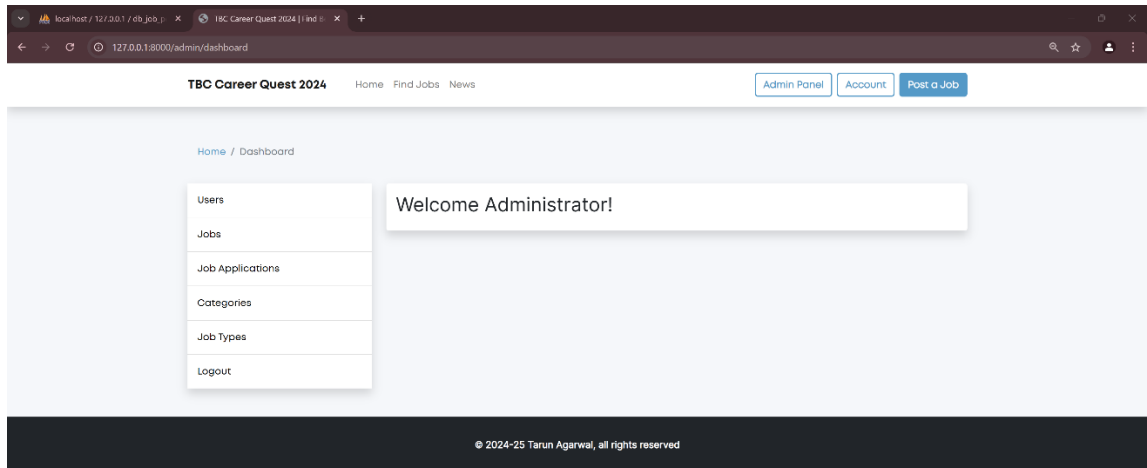
## 4. Website After Admin Login

### a. Admin Profile Page



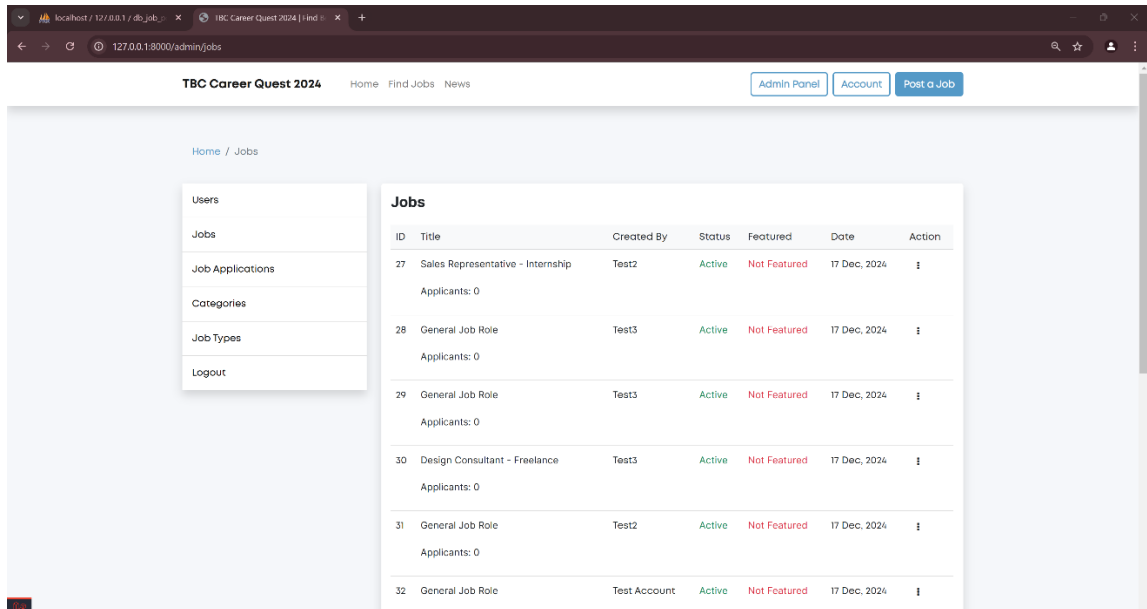
The screenshot shows the 'Admin Profile Page' of the 'TBC Career Quest 2024' website. The page has a sidebar with links: Home, Find Jobs, News, Admin Panel, Account, and Post a Job. The main content area is titled 'Home / Account Settings'. It features a profile card for 'TBC Admin' with a 'Change Profile Picture' button. Below the profile card is a list of account settings: Account Settings, Post a Job, View Job Applications, My Jobs, Jobs Applied, and Saved Jobs. The 'My Profile' section contains form fields for Name (TBC Admin), Email (atarun25@tbc.edu.np), Designation (Admin), and Mobile. An 'Update' button is at the bottom of this section. Below the profile section is a 'Change Password' section with an 'Old Password\*' field.

### b. Admin Panel



The screenshot shows the 'Admin Panel' of the 'TBC Career Quest 2024' website. The page has a sidebar with links: Home, Find Jobs, News, Admin Panel, Account, and Post a Job. The main content area is titled 'Home / Dashboard'. It features a 'Welcome Administrator!' message. Below the message is a list of admin actions: Users, Jobs, Job Applications, Categories, Job Types, and Logout. The footer of the page contains the text '© 2024-25 Tarun Agarwal, all rights reserved'.

### c. Admin Job List



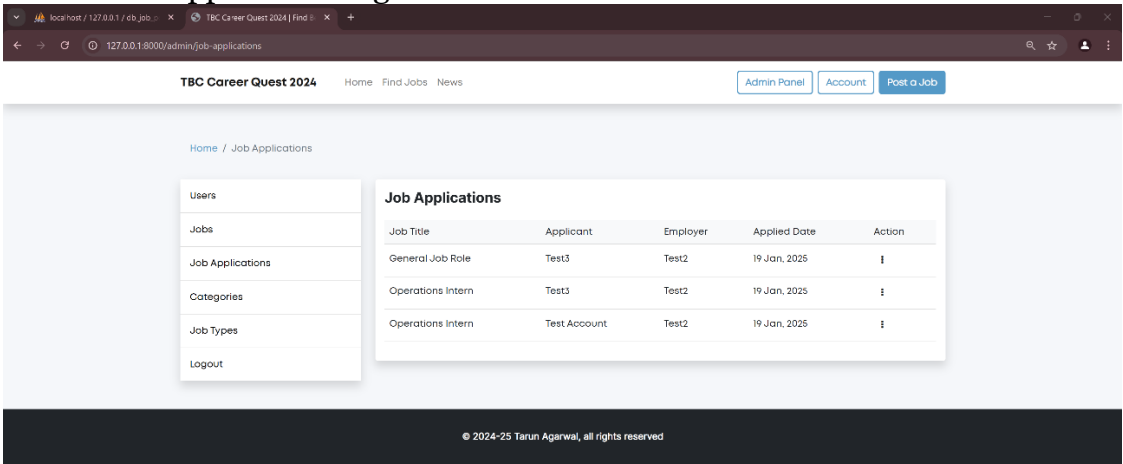
The screenshot shows the 'Admin Job List' of the 'TBC Career Quest 2024' website. The page has a sidebar with links: Home, Find Jobs, News, Admin Panel, Account, and Post a Job. The main content area is titled 'Home / Jobs'. It features a table of jobs with columns: ID, Title, Created By, Status, Featured, Date, and Action. The table contains 6 rows of job data. Below the table is a 'Jobs' section with a list of jobs and their applicant counts.

ID	Title	Created By	Status	Featured	Date	Action
27	Sales Representative - Internship	Test2	Active	Not Featured	17 Dec, 2024	⋮
Applicants: 0						
28	General Job Role	Test3	Active	Not Featured	17 Dec, 2024	⋮
Applicants: 0						
29	General Job Role	Test3	Active	Not Featured	17 Dec, 2024	⋮
Applicants: 0						
30	Design Consultant - Freelance	Test3	Active	Not Featured	17 Dec, 2024	⋮
Applicants: 0						
31	General Job Role	Test2	Active	Not Featured	17 Dec, 2024	⋮
Applicants: 0						
32	General Job Role	Test Account	Active	Not Featured	17 Dec, 2024	⋮

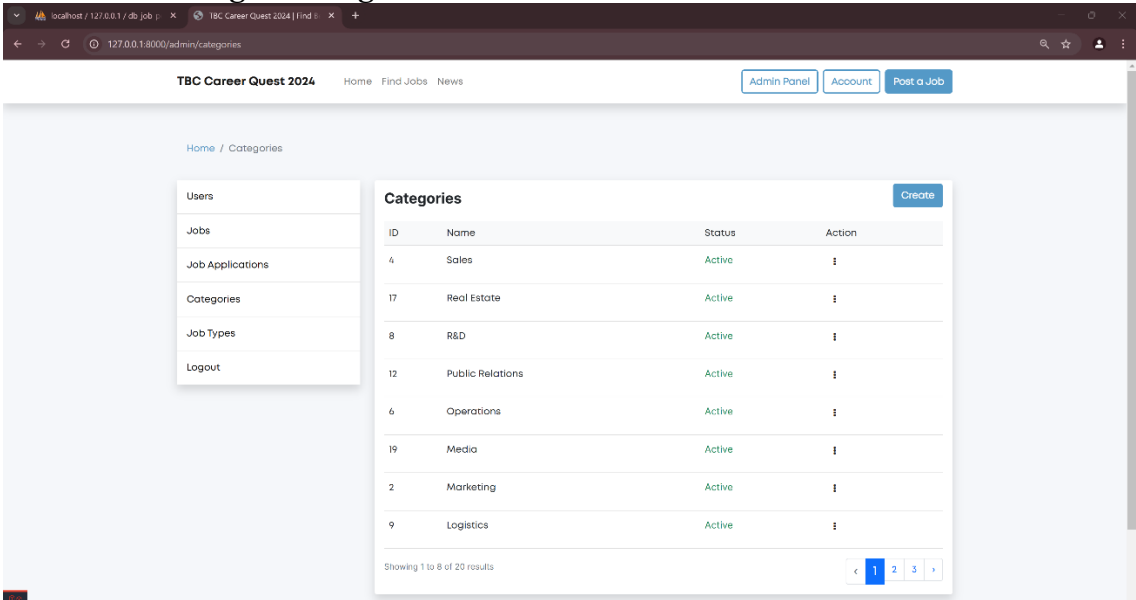
**Jobs**

- 27 Sales Representative - Internship Applicants: 0
- 28 General Job Role Applicants: 0
- 29 General Job Role Applicants: 0
- 30 Design Consultant - Freelance Applicants: 0
- 31 General Job Role Applicants: 0
- 32 General Job Role Applicants: 0

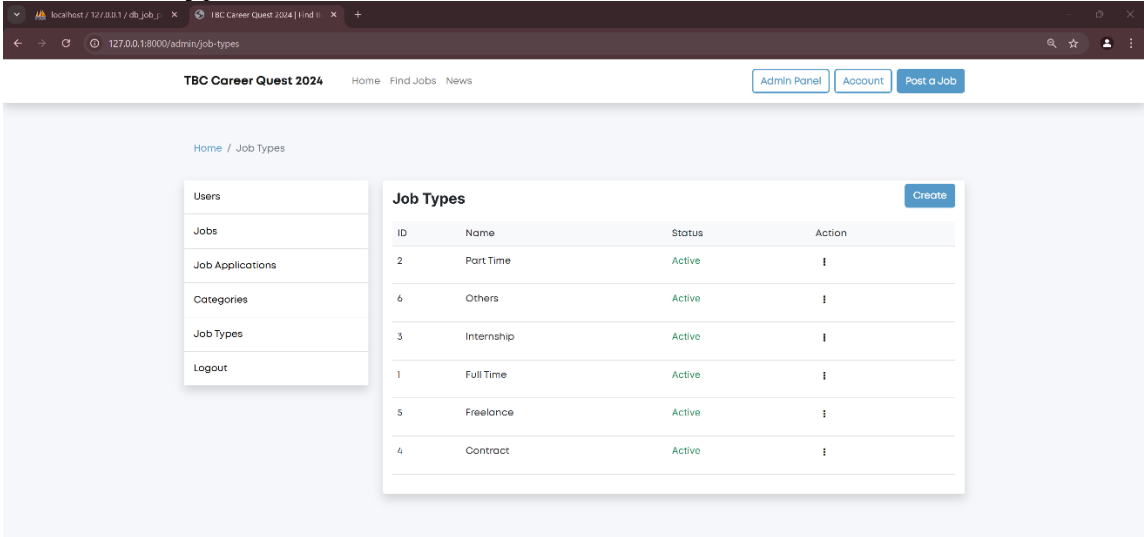
d. Admin Job Application Page



e. Admin Job Categories Page



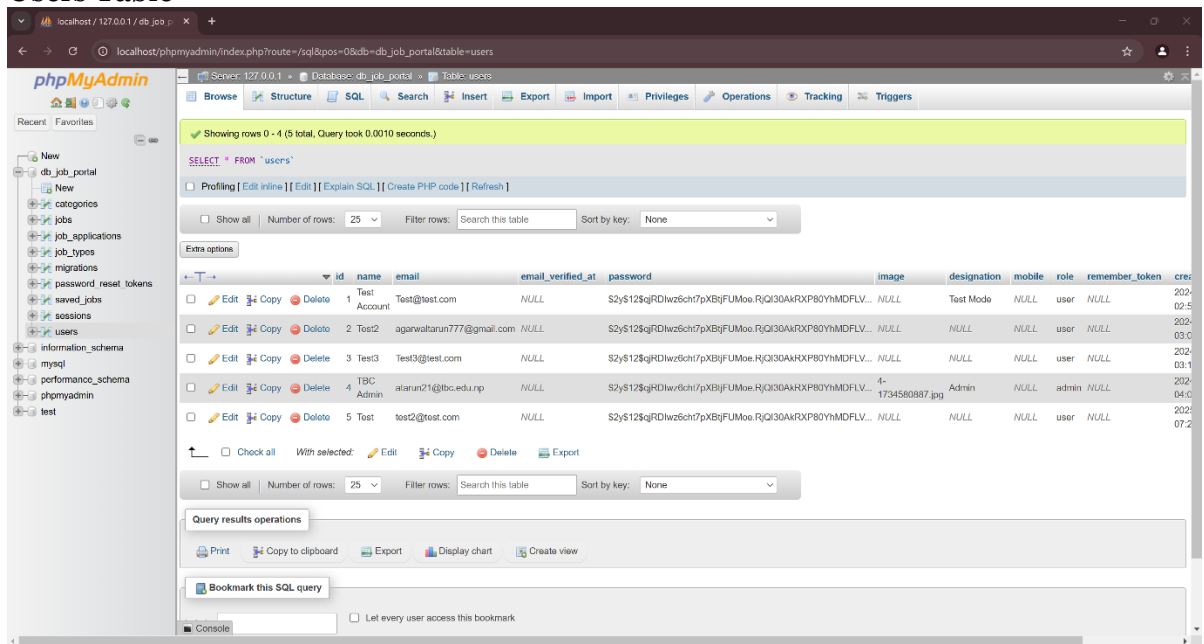
f. Admin Job Types





## 5. MySQL

### a. Users Table



The screenshot shows the phpMyAdmin interface for a database named 'db\_job\_portal'. The 'users' table is selected, and its structure and data are displayed. The table has 11 columns: id, name, email, email\_verified\_at, password, image, designation, mobile, role, remember\_token, and created\_at. There are 5 rows of data.

id	name	email	email_verified_at	password	image	designation	mobile	role	remember_token	created_at
1	Test Account	Test@test.com	NULL	\$2y\$12\$gRDhw26ch7pXBjFUMoeRjQI30AARXp80YMDFLV...	NULL	Test Mode	NULL	user	NULL	2024-02-5 02:5
2	Test2	agarwal7tarun777@gmail.com	NULL	\$2y\$12\$gRDhw26ch7pXBjFUMoeRjQI30AARXp80YMDFLV...	NULL	NULL	NULL	user	NULL	2024-03-6 03:0
3	Test3	Test3@test.com	NULL	\$2y\$12\$gRDhw26ch7pXBjFUMoeRjQI30AARXp80YMDFLV...	NULL	NULL	NULL	user	NULL	2024-03-1 03:1
4	TBC Admin	alanun21@tbc.edu.np	NULL	\$2y\$12\$gRDhw26ch7pXBjFUMoeRjQI30AARXp80YMDFLV...	4-1734580887.jpg	Admin	NULL	admin	NULL	2024-04-0 04:0
5	Test	test2@test.com	NULL	\$2y\$12\$gRDhw26ch7pXBjFUMoeRjQI30AARXp80YMDFLV...	NULL	NULL	NULL	user	NULL	2024-07-2 07:2

## 6. GitHub

### a. Component 2

- JobPortal – Source Code
- db\_job\_portal – SQL File

