

# **ToDoApp**

*Project report (CA3) submitted in fulfilment of the requirements for the*

*Degree of*

**BACHELOR OF TECHNOLOGY**

**in**

**COMPUTER SCIENCE AND ENGINEERING**

By

**NEELESHWAR DOGRA**

**(11902800)**

SUBJECT

**INT221 – MVC PROGRAMMING**



**School of Computer Science and Engineering**

Lovely Professional University

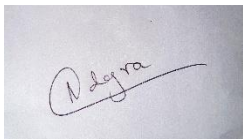
Phagwara, Punjab (India)

Month- March Year- 2022

# **DECLARATION**

**To whomsoever it may concern**

I, Neeleshwar Dogra, 11902800, hereby declare that the work done by me on the project “ToDoApp”, is a record of original work as part of the CA3, for the partial fulfillment of the requirements for the award of the degree, B.Tech.(CSE).

A handwritten signature in black ink, appearing to read 'N. Dogra', with a long horizontal stroke extending to the right.

Neeleshwar Dogra

11902800

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## INTRODUCTION

ToDoApp is a web app on which user can add tasks and plan his day in a more organized manner. You can edit, update and delete tasks. To access this, you have to first register on the site and then you are logged in.

# TECHNOLOGIES

The technologies used to create the ToDoApp are:

- PHP
- Laravel (PHP Framework)
- CSS
- HTML
- Javascript
- Bootstrap
- DBMS

## CODE

web.php

```
<?php

use Illuminate\Support\Facades\Route;
use App\Http\Controllers\TodoAppController;
use App\Http\Controllers\TasksController;

Route::get('/', [TodoAppController::class, 'index']);
Route::get('/about', [TodoAppController::class, 'about']);

Route::resource('posts', TasksController::class);
Auth::routes();

Route::get('/home', [App\Http\Controllers\HomeController::class,
'index'])->name('home');
```

TodoAppController.php

Returns the home page view and about page view.

```
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;

class TodoAppController extends Controller
{
    public function index(){
        if(auth()->guest()){
            return view('todoapp.main');
        }
        else{
            return redirect('/home');
        }
    }

    public function about(){
        return view('todoapp.about');
    }
}
```

todoapp- main.blade.php

The main page.

```
@extends('layouts.app')

@section('content')
<div class="px-4 py-5 my-5 text-center">
  <h1 class="display-5 fw-bold">ToDoApp</h1>
  <div class="col-lg-6 mx-auto">
    <div class="d-grid gap-2 d-sm-flex justify-content-sm-center">
      <a class="btn btn-primary btn-lg px-4 gap-3" href="{{
route('login') }}">Login</a>
      <a class="btn btn-primary btn-lg px-4 gap-3" href="{{
route('register') }}">Register</a>
    </div>
  </div>
</div>
@endsection
```

todoapp- about.blade.php

The about page

```
@extends('layouts.app')

@section('content')
<div class="text-center" style="margin-top: 4rem">
  <h1 class="display-3">About</h1>
  <p class="jus">This is a ToDoApp.<br>You can add, edit, update,
delete tasks.<br>Creating tasks help in planning your day better and
makes it easier to perform those important tasks.</p>
</div>

@endsection
```

## TasksController.php

This handle the crud functionality of the site. Crud stands for create, read, update and delete.

```
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use App\Models\Post;
use App\Models\User;

class TasksController extends Controller
{
    /**
     * Create a new controller instance.
     *
     * @return void
     */
    public function __construct()
    {
        $this->middleware('auth');
    }

    /**
     * Display a listing of the resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function index()
    {
        $user_id = auth()->user()->id;
        $user = User::find($user_id);

        return view('tasks.index')->with('tasks',$user->posts);
    }

    /**
     * Show the form for creating a new resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function create()
    {
        return view('tasks.create');
    }

    /**
```



```

    * Store a newly created resource in storage.
    *
    * @param \Illuminate\Http\Request $request
    * @return \Illuminate\Http\Response
    */
    public function store(Request $request)
    {
        $this->validate($request, [
            'title' => 'required',
            'body' => 'required'
        ]);

        $task = new Post;
        $task->title = $request->input('title');
        $task->body = $request->input('body');
        $task->iscompleted = '1';
        $task->user_id = auth()->user()->id;
        $task->save();

        return redirect('/home')->with('success', 'Task Added');
    }

    /**
     * Display the specified resource.
     *
     * @param int $id
     * @return \Illuminate\Http\Response
     */
    public function show($id)
    {
        $task = Post::find($id);
        return view('tasks.show')->with('task', $task);
    }

    /**
     * Show the form for editing the specified resource.
     *
     * @param int $id
     * @return \Illuminate\Http\Response
     */
    public function edit($id)
    {
        $task = Post::find($id);

        if(auth()->user()->id !== $task->user_id){
            return redirect('/home')->with('error', 'Unauthorized
Page');
        }
    }

```

```

        return view('tasks.edit')->with('task', $task);
    }

    /**
     * Update the specified resource in storage.
     *
     * @param \Illuminate\Http\Request $request
     * @param int $id
     * @return \Illuminate\Http\Response
     */
    public function update(Request $request, $id)
    {
        $this->validate($request, [
            'title' => 'required',
            'body' => 'required',
        ]);

        $task = Post::find($id);
        $task->title = $request->input('title');
        $task->body = $request->input('body');
        if($request->input('iscompleted') == ''){
            $task->iscompleted = 1;
        }
        else{
            $task->iscompleted = $request->input('iscompleted');
        }
        $task->save();

        return redirect('/home')->with('success', 'Task Updated');
    }

    /**
     * Remove the specified resource from storage.
     *
     * @param int $id
     * @return \Illuminate\Http\Response
     */
    public function destroy($id)
    {
        $task = Post::find($id);
        if(auth()->user()->id !== $task->user_id){
            return redirect('/home')->with('error', 'Unauthorized
Page');
        }
        $task->delete();
        return redirect('/home')->with('success', 'Task Deleted');
    }
}

```

tasks- index.blade.php  
The tasks page.

```
@extends('layouts.app')

@section('content')
    <h1 class="text-center">Tasks</h1>
    @if (count($tasks) > 0)
        @foreach ($tasks as $task)
            @if ($task->iscompleted == '1')
                <a href="/ToDoApp/public/posts/{{ $task->id }}"
style="color: black; text-decoration: none">
                    <div class="p-3 card m-3">
                        <h3>{{ strtoupper($task->title) }}</h3>
                        <h4>{!! $task->body !!</h4>
                        <small>Added on {{ $task->created_at }}</small>
                    </div>
                </a>
            @endif
            @if ($task->iscompleted != '1')
                <a href="/ToDoApp/public/posts/{{ $task->id }}"
style="color: black; text-decoration: none">
                    <div class="p-3 card m-3" style="background-color:
green; ">
                        <h3>{{ strtoupper($task->title) }}</h3>
                        <h4>{!! $task->body !!</h4>
                        <small>Added on {{ $task->created_at }}</small>
                    </div>
                </a>
            @endif
        @endforeach
    @endif
    @if (count($tasks) < 1)
        <div class="text-center" style="padding: 2rem 1rem;
margin-top: 3rem;
margin-left: 5rem;
margin-bottom: 2rem;
background-color: #e9ecef;
border-radius: .3rem;">
            <h1 class="display-7">No Tasks Present</h1>
        </div>
    @endif
@endsection
```

tasks- show.blade.php

Page for each individual task.

```
@extends('layouts.app')

@section('content')
    <a href="/ToDoApp/public/posts" class="btn btn-outline-secondary">Go
Back</a><br><br>
    <h1>{{ $task->title }}</h1>
    <div>
        {!! $task->body !!}
    </div>
    <hr><small>Added on {{ $task->created_at }}</small>
    <br><br>
    <a href="/ToDoApp/public/posts/{{ $task->id }}/edit" class="btn btn-
outline-secondary">Edit</a>

    {!! Form::open(['action' =>
['App\Http\Controllers\TasksController@destroy',$task->id], 'method' =>
'DELETE', 'class' => 'float-right' ]) !!}
        {{ Form::submit('Delete', ['class' => 'btn btn-danger', 'style'
=> 'margin-top: 1rem']) }}
    {!! Form::close() !!}
@endsection
```

tasks- create.blade.php

Page where you can create tasks.

```
@extends('layouts.app')

@section('content')
    <h1>Add Task</h1>
    {!! Form::open(['action' =>
'App\Http\Controllers\TasksController@store', 'method' => 'POST']) !!}
        <div class="form-group">
            {{ Form::label('title', 'Title') }}
            {{ Form::text('title', '', ['class' => 'form-control',
'placeholder' => 'Title']) }}
        </div>
        <div class="form-group">
            {{ Form::label('body', 'Task Description') }}
            {{ Form::textarea('body', '', ['class' => 'form-control',
'placeholder' => 'Body Text']) }}
        </div>
        {{ Form::submit('Submit', ['class' => 'btn btn-primary', 'style'
=> 'margin-top: 1rem']) }}
    {!! Form::close() !!}
@endsection
```

tasks- edit.blade.php

The edit page for a task.

```
@extends('layouts.app')

@section('content')
    <h1>Edit Task</h1>
    {!! Form::open(['action' =>
['App\Http\Controllers\TasksController@update', $task->id], 'method' =>
'PUT']) !!}
        <div class="form-group">
            {{ Form::label('title', 'Title') }}
            {{ Form::text('title', $task->title, ['class' => 'form-
control', 'placeholder' => 'Title']) }}
        </div>
        <div class="form-group">
            {{ Form::label('body', 'Task Description') }}
            {{ Form::textarea('body', $task->body, ['class' => 'form-
control', 'placeholder' => 'Body Text']) }}
        </div>
        <div class="form-group">
            {{ Form::label('iscompleted', 'Completed: ') }}
            {{ Form::text('iscompleted', '', ['class' => 'form-control',
'placeholder' => ' Enter anything if task is completed']) }}
        </div>
        {{ Form::submit('Submit', ['class' => 'btn btn-primary', 'style'
=> 'margin-top: 1rem']) }}
    {!! Form::close() !!}
@endsection
```

migrations- 2022\_03\_28\_130625\_create\_posts\_table.php

This is where the table is defined.

```
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

return new class extends Migration
{
    /**
     * Run the migrations.
     *
     * @return void
     */
    public function up()
    {
        Schema::create('posts', function (Blueprint $table) {
            $table->id();
            $table->string('title');
            $table->mediumText('body');
            $table->text('iscompleted');
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     *
     * @return void
     */
    public function down()
    {
        Schema::dropIfExists('posts');
    }
};
```

migrations- 2014\_10\_12\_000000\_create\_users\_table.php

This defines the user table for authentication purposes.

```
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

return new class extends Migration
{
    /**
     * Run the migrations.
     *
     * @return void
     */
    public function up()
    {
        Schema::create('users', function (Blueprint $table) {
            $table->id();
            $table->string('name');
            $table->string('email')->unique();
            $table->timestamp('email_verified_at')->nullable();
            $table->string('password');
            $table->rememberToken();
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     *
     * @return void
     */
    public function down()
    {
        Schema::dropIfExists('users');
    }
};
```

view-layouts- app.blade.php

This is the layout file.

```
<!doctype html>
<html lang="{{ str_replace('_', '-', app()->getLocale()) }}">
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">

    <!-- CSRF Token -->
    <meta name="csrf-token" content="{{ csrf_token() }}">

    <title>{{ config('app.name', 'Laravel') }}</title>

    <!-- Scripts -->
    <script src="{{ asset('js/app.js') }}" defer></script>

    <!-- Fonts -->
    <link rel="dns-prefetch" href="//fonts.gstatic.com">
    <link href="https://fonts.googleapis.com/css?family=Nunito"
rel="stylesheet">

    <!-- Styles -->
    <link href="{{ asset('css/app.css') }}" rel="stylesheet">
</head>
<body>
    <div id="app">
        @include('inc.navbar')
        <div class="m-4 container">
            @include('inc.messages')
            @yield('content')
        </div>
    </div>
</body>
</html>
```



views-inc- messages.blade.php

This is the little message that appear when an error happens or something is successfully executed.

```
@if (count($errors) > 0)
    @foreach ( $errors->all() as $error)
        <div class="alert alert-danger">
            {{ $error }}
        </div>
    @endforeach
@endif

@if (session('success'))
    <div class="alert alert-success">
        {{ session('success') }}
    </div>
@endif

@if (session('error'))
    <div class="alert alert-danger">
        {{ session('error') }}
    </div>
@endif
```

views-inc- navbar.blade.php

The navbar

```
<nav class="navbar navbar-expand-md navbar-dark bg-dark shadow-sm">
  <div class="container">
    @if(!Auth::guest())
      <a class="navbar-brand" href="{{ url('/home') }}">
        {{ config('app.name', 'Laravel') }}
      </a>
    @else
      <a class="navbar-brand" href="{{ url('/') }}">
        {{ config('app.name', 'Laravel') }}
      </a>
    @endif

    <button class="navbar-toggler" type="button" data-bs-
toggle="collapse" data-bs-target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false" aria-label="{{
__('Toggle navigation') }}">
      <span class="navbar-toggler-icon"></span>
    </button>

    <div class="collapse navbar-collapse"
id="navbarSupportedContent">
      <!-- Left Side Of Navbar -->
      <ul class="navbar-nav me-auto">

      </ul>
      <div class="collapse navbar-collapse" id="navbarsExample03">
        <ul class="navbar-nav mr-auto">
          @guest
            <li class="nav-item">
              <a class="nav-link"
href="/ToDoApp/public/">Home</a>
            </li>
          @endguest

          <li>
            <a class="nav-link" href="{{ url('/about')
}}">About</a>
          </li>

          @if(!Auth::guest())
            <li>
              <a class="nav-link" href="{{ url('/posts')
}}">Tasks</a>
            </li>

            <li>
```

```

                <a class="nav-link" href="{{
url('/posts/create') }}">Add Task</a>
            </li>
        @endif
    </ul>
</div>
<!-- Right Side Of Navbar -->
<ul class="navbar-nav ms-auto">
    <!-- Authentication Links -->
    @guest
        @if (Route::has('login'))
            <li class="nav-item">
                <a class="nav-link" href="{{ route('login')
}}">{{ __('Login') }}</a>
            </li>
        @endif

        @if (Route::has('register'))
            <li class="nav-item">
                <a class="nav-link" href="{{
route('register') }}">{{ __('Register') }}</a>
            </li>
        @endif
    @else
        <li class="nav-item dropdown">
            <a id="navbarDropdown" class="nav-link dropdown-
toggle" href="#" role="button" data-bs-toggle="dropdown" aria-
haspopup="true" aria-expanded="false" v-pre>
                {{ Auth::user()->name }}
            </a>

            <div class="dropdown-menu dropdown-menu-end"
aria-labelledby="navbarDropdown">
                <a class="dropdown-item" href=""
style="pointer-events:none">{{ Auth::user()->email }}</a>
                <a class="dropdown-item" href="{{
url('/home') }}">Dashboard</a>
                <a class="dropdown-item" href="{{
route('logout') }}"
                    onclick="event.preventDefault();
                        document.getElementById('lo
gout-form').submit();">
                    {{ __('Logout') }}
                </a>

                <form id="logout-form" action="{{
route('logout') }}" method="POST" class="d-none">
                    @csrf
                </form>
            </div>
        </li>
    @endelse
</ul>

```

```
        </div>
      </li>
    @endguest
  </ul>
</div>
</div>
</nav>
```

views- home.blade.php  
This is the main dashboard

```
@extends('layouts.app')

@section('content')
<div class="container">
    <div class="row justify-content-center">
        <div class="col-md-8">
            <div class="card">
                <div class="card-header">{{ __( 'Dashboard' ) }}</div>

                <div class="card-body">
                    @if (session('status'))
                        <div class="alert alert-success" role="alert">
                            {{ session('status') }}
                        </div>
                    @endif
                    <a href="/ToDoApp/public/posts/create" class="btn btn-primary">Add Tasks</a><br><br>
                    <h3>Your Tasks: </h3>
                    @if(count($tasks) > 0)
                        <table class="table table-striped">
                            <tr>
                                <th>Title</th>
                                <th>Task Desc.</th>
                                <th></th>
                                <th></th>
                            </tr>
                            @foreach ($tasks as $task)
                                @if ($task->iscompleted != '1')
                                    <tr style="background-color:#02ab2c">
                                        <td>{{ $task->title }}</td>
                                        <td>{!! $task->body !!</td>
                                        <td><a href="/ToDoApp/public/posts/{{ $task->id }}/edit" class="btn btn-info">Edit</a></td>
                                        <td>{!! Form::open([ 'action' => ['App\Http\Controllers\TasksController@destroy',$task->id], 'method' => 'DELETE', 'class' => 'float-right' ]) !!}
                                            {{ Form::submit('Delete', ['class' => 'btn btn-danger']) }}
                                        {!! Form::close() !!</td>
                                    </tr>
                                @endif
                                @if ($task->iscompleted == 1)
                                    <tr>
                                        <th>{{ $task->title }}</th>
```



HomeController.php

Authenticates user and return dashboard view.

```
<?php

namespace App\Http\Controllers;

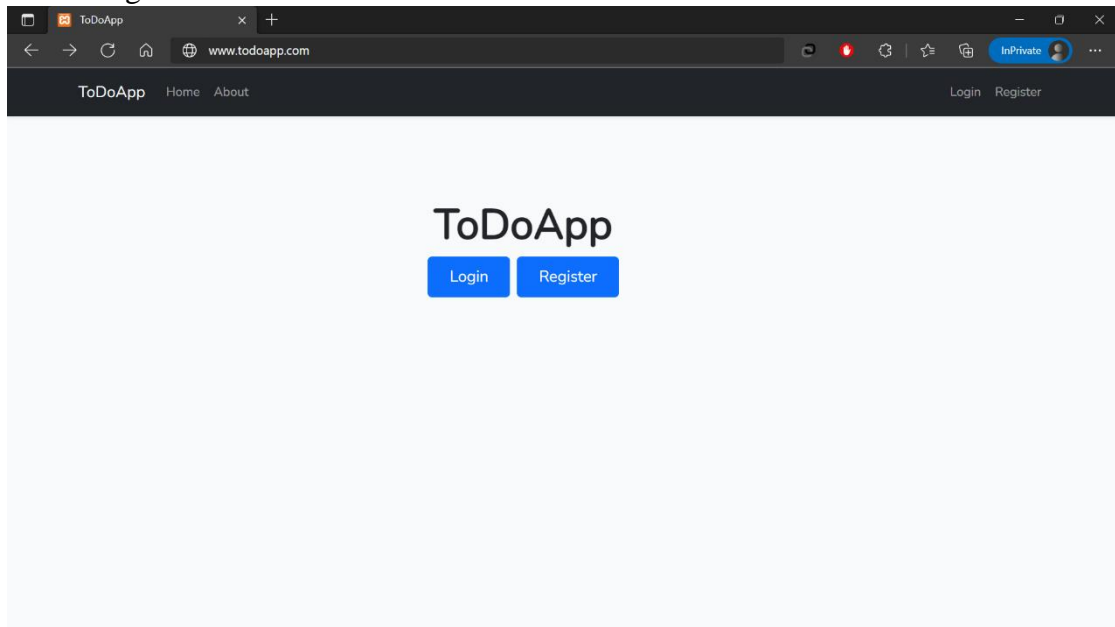
use Illuminate\Http\Request;
use App\Models\User;

class HomeController extends Controller
{
    /**
     * Create a new controller instance.
     *
     * @return void
     */
    public function __construct()
    {
        $this->middleware('auth');
    }

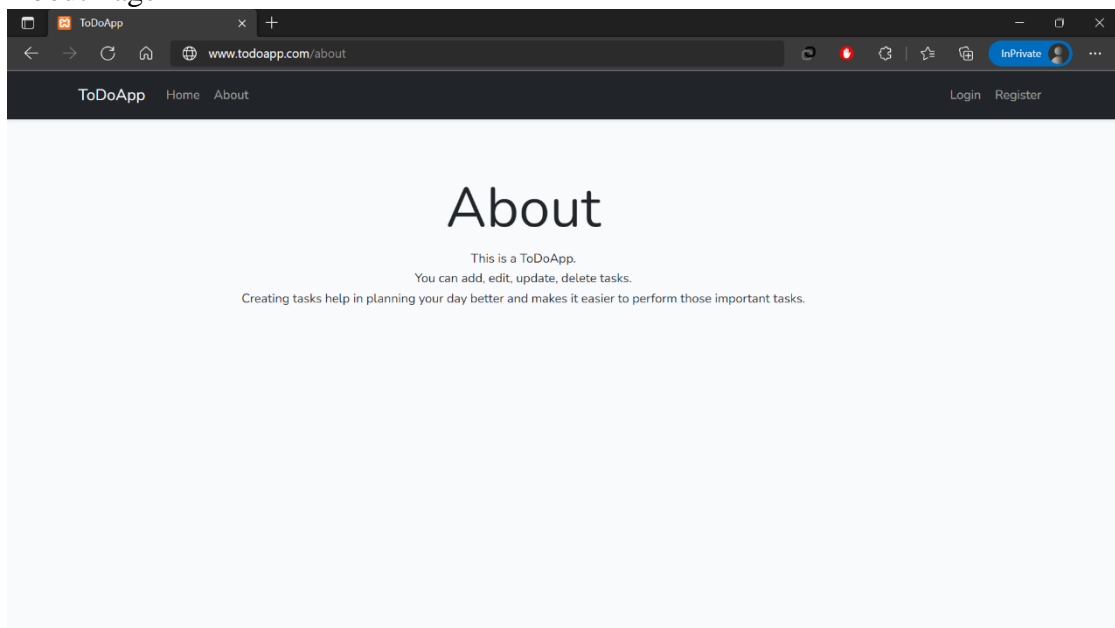
    /**
     * Show the application dashboard.
     *
     * @return \Illuminate\Contracts\Support\Renderable
     */
    public function index()
    {
        $user_id = auth()->user()->id;
        $user = User::find($user_id);
        return view('home')->with('tasks', $user->posts);
    }
}
```

# WEBSITE SCREENSHOTS

## Home Page

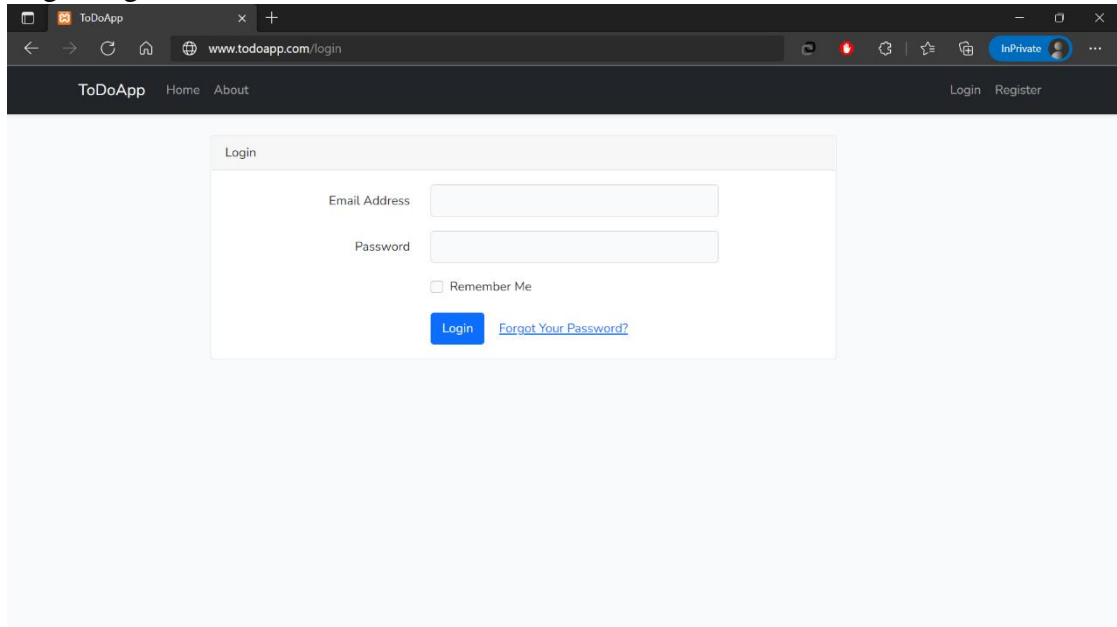


## About Page





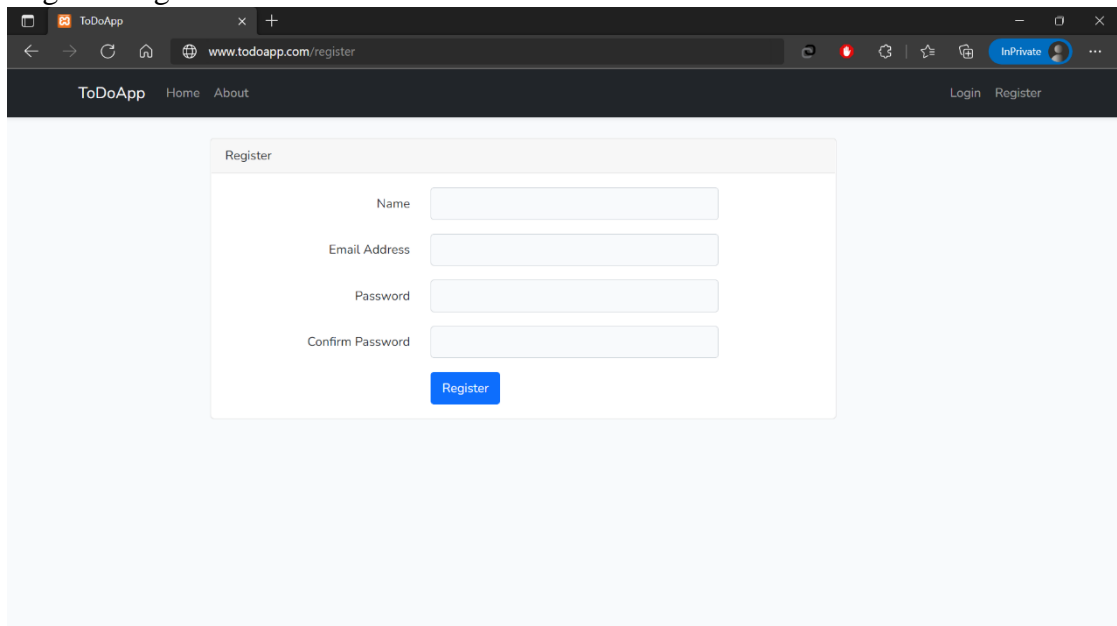
## Login Page



The screenshot shows a web browser window with the address bar displaying `www.todoapp.com/login`. The page has a dark header with the site name "ToDoApp" and links for "Home" and "About". On the right side of the header are links for "Login" and "Register". The main content area features a light gray box titled "Login" containing the following elements:

- An "Email Address" input field.
- A "Password" input field.
- A checkbox labeled "Remember Me".
- A blue "Login" button.
- A blue link labeled "Forgot Your Password?".

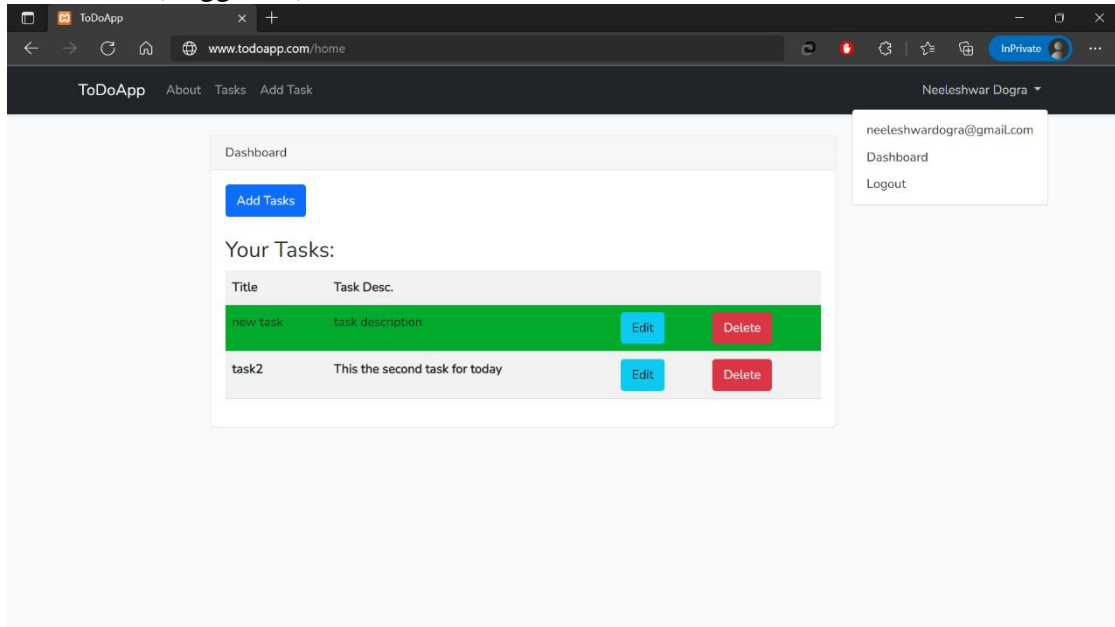
## Register Page



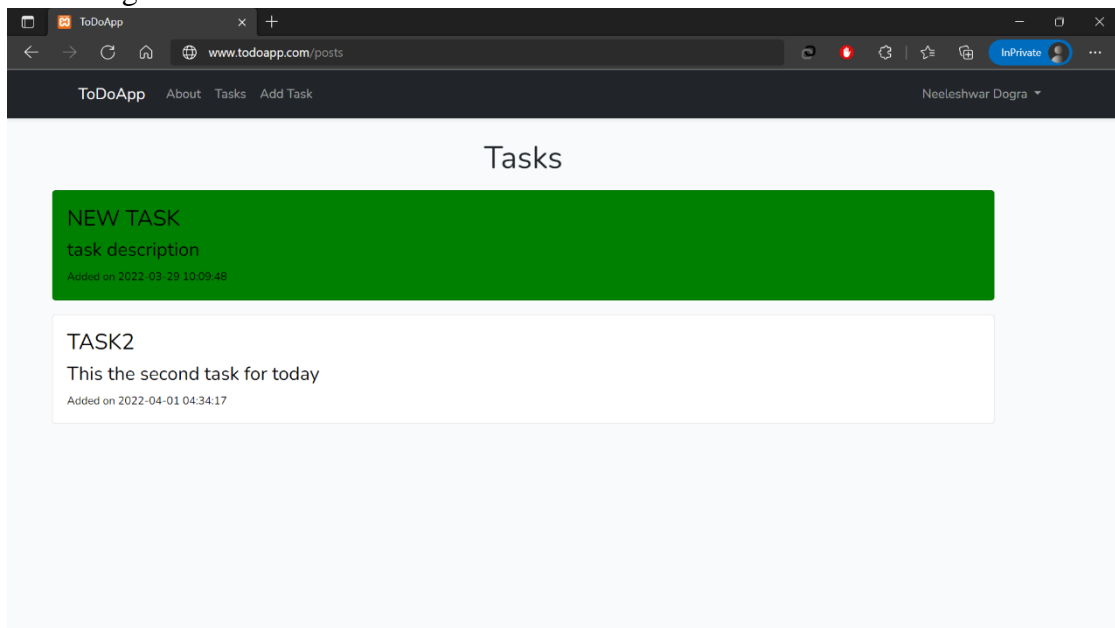
The screenshot shows a web browser window with the address bar displaying `www.todoapp.com/register`. The page has a dark header with the site name "ToDoApp" and links for "Home" and "About". On the right side of the header are links for "Login" and "Register". The main content area features a light gray box titled "Register" containing the following elements:

- A "Name" input field.
- An "Email Address" input field.
- A "Password" input field.
- A "Confirm Password" input field.
- A blue "Register" button.

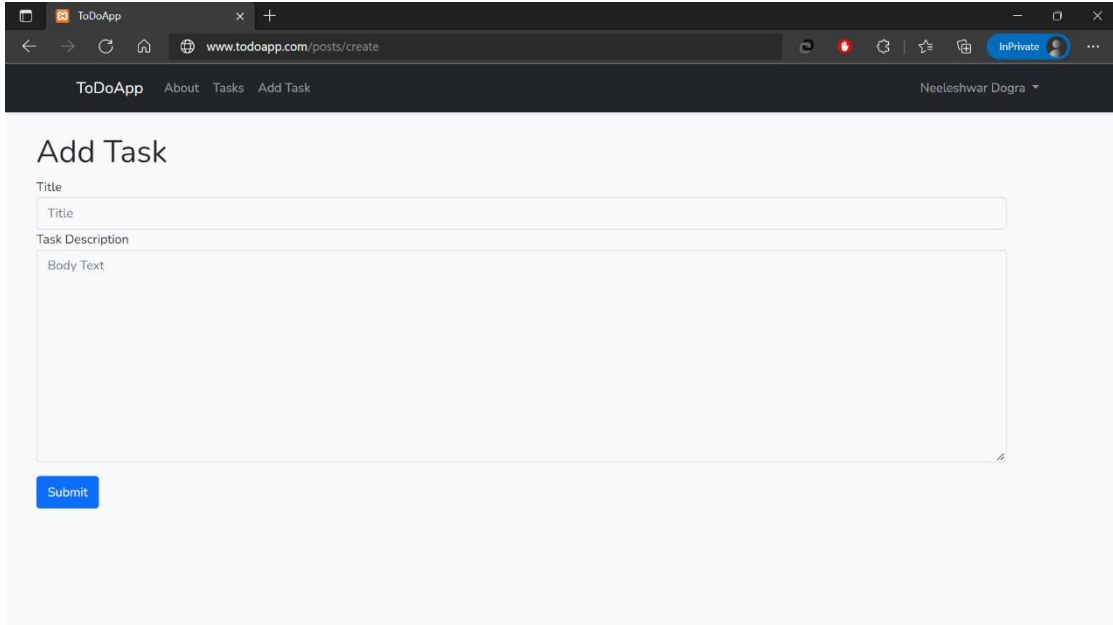
## Dashboard (Logged In)



## Tasks Page

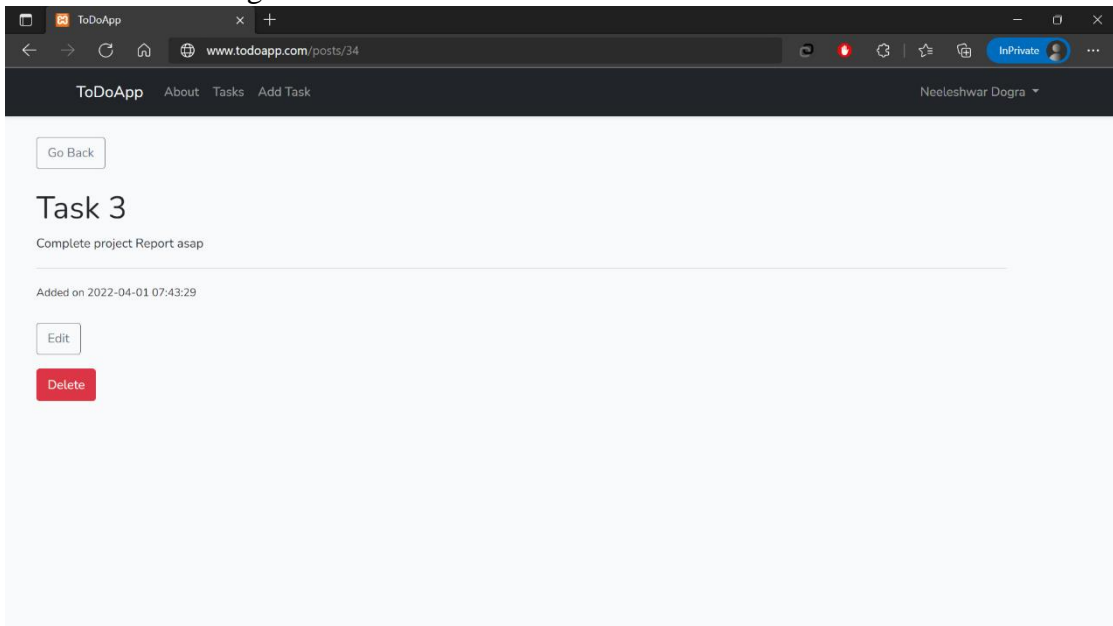


## Add Tasks Page



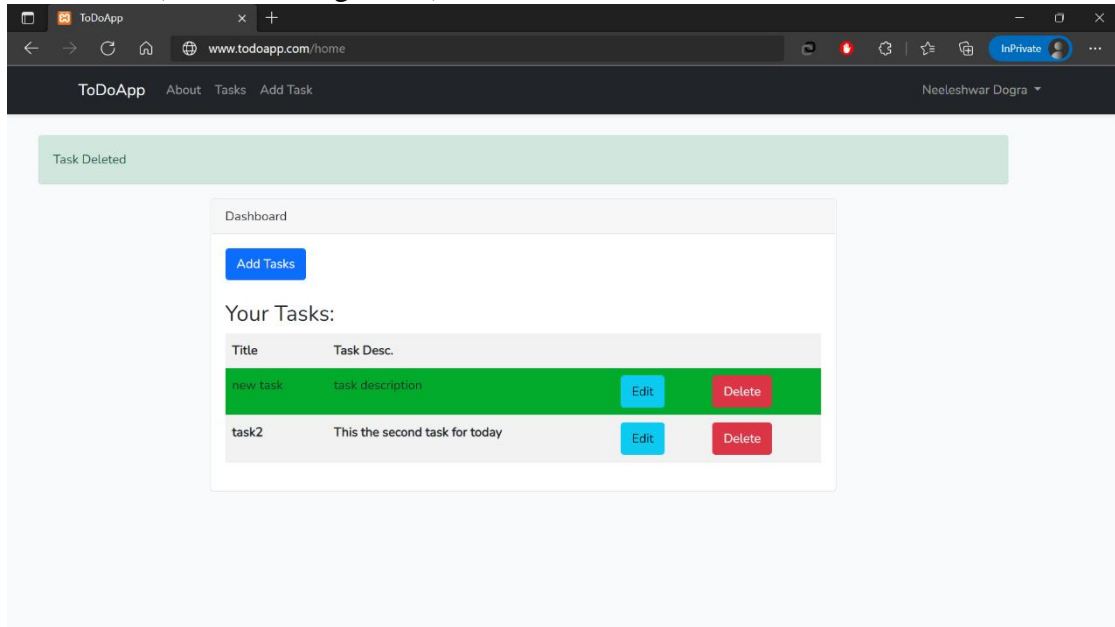
The screenshot shows a web browser window with the address bar displaying `www.todoapp.com/posts/create`. The page has a dark header with the 'ToDoApp' logo and navigation links 'About', 'Tasks', and 'Add Task'. The main content area is titled 'Add Task' and contains two text input fields: 'Title' and 'Task Description' (with 'Body Text' as a placeholder). A blue 'Submit' button is located at the bottom left of the form.

## Individual Task Page



The screenshot shows a web browser window with the address bar displaying `www.todoapp.com/posts/34`. The page has a dark header with the 'ToDoApp' logo and navigation links 'About', 'Tasks', and 'Add Task'. The main content area is titled 'Task 3' and contains the text 'Complete project Report asap'. Below this, it says 'Added on 2022-04-01 07:43:29'. There are two buttons: a light blue 'Edit' button and a red 'Delete' button.

## Dashboard (After Deleting a task)



## CONCLUSION

As it can be seen from the above code snippets and screenshots, I have made the project titled “ToDoApp”. The entire project has been made completely by me, with little help of stackoverflow and youtube.