



Creating a simple calculator app using Django Framework

Project Prerequisites:-

- Python
- HTML
- CSS
- Bootstrap
- Django Framework

User Features:

- User:
 - Log in:- For the login ,the user will log in first before he can use the system.
 - Sign up- for the sign up the user will sign up first before he can use it to log into the system
 - Homepage-For the Homepage user will get basic access in the whole system.Such as home,calculator,about page and login.
 - About-Shows the users the directions
 - Contacts Page: Allows user to contact the owner or operator of the site

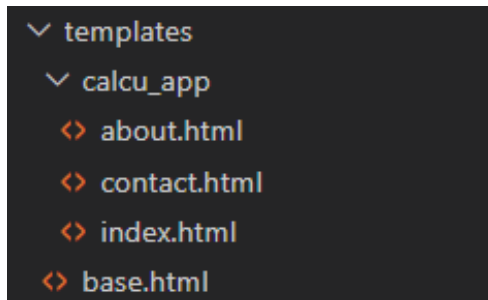
Development

Creating a directory calculator and making App calcu_app using

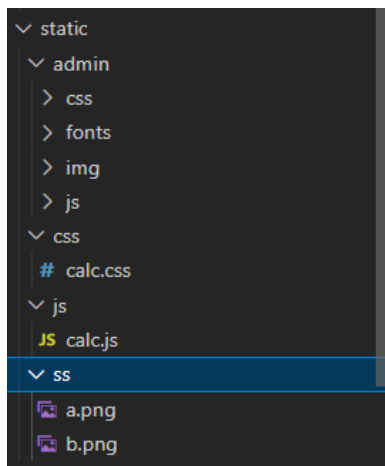
`django-admin startproject calcu_app`

Files to include

Template Files mostly includes HTML pages for view perspective that allows you to defines a skeleton of an algorithm in a base class and let subclasses override the steps without changing the overall algorithm's structure.



Static files includes javascript files for implementing the algorithm and logic, CSS files where HTML elements are to be displayed on screen, paper, or in other media



URLs.py-includes paths

```
from django.contrib import admin
from django.urls import path
from django.conf.urls import url, include

urlpatterns = [
    path('', include('calcu_app.urls')),
    path('admin/', admin.site.urls),
]
```

Settings.py- should include calcu_app in installed apps

```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
```

```
'calcu_app',  
]
```

Model.py- access and manage data through Python objects referred to as models.

```
from django.db import models  
  
# Create your models here.  
  
class Contact(models.Model):  
    sno = models.AutoField(primary_key=True)  
    name = models.CharField(max_length=255)  
    email = models.CharField(max_length=100)  
    phone = models.CharField(max_length=13)  
    content = models.TextField()  
    timeStamp = models.DateTimeField(auto_now_add=True, blank=True)  
  
    def __str__(self):  
        return 'Message from ' + self.name + ' - ' + self.email
```

Views.py- Python functions that takes http requests and returns http response, like HTML documents

```
from django.shortcuts import render  
from .models import Contact  
from django.contrib import messages  
  
# Create your views here.  
  
def index(request):  
    return render(request, 'calcu_app/index.html')  
  
def about(request):  
    return render(request, 'calcu_app/about.html')  
  
def contact(request):  
    if request.method == 'POST':  
        name = request.POST['name']  
        email = request.POST['email']  
        phone = request.POST['phone']  
        content = request.POST['content']  
  
        if len(name)<2 or len(email)<3 or len(phone)<10 or len(content)<4:  
            messages.error(request, "Please fill the form correctly!")  
        else:  
            contact = Contact(name=name, email=email, phone=phone,  
content=content)  
            contact.save()
```

```
        messages.success(request, 'Your message has been sent
successfully!')
    return render(request, 'calcu_app/contact.html')
```

Rest is Default by Django

Template Files

Base.html- Used to extend other html pages.

```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1,
shrink-to-fit=no">

    <link rel="stylesheet"
href="https://pro.fontawesome.com/releases/v5.10.0/css/all.css"
integrity="sha384-
AYmEC3Yw5cVb3ZcuHt0A93w35dYTsvhLPVnYs9eStHfGJvOvKxVfELGroGkvsg+p"
crossorigin="anonymous"/>

    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">

    <link
href='https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css
'>
    <link href='https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css'>

    <title>Calculator</title>
  </head>
  <body>
    <style>
      body {

        background: linear-gradient(120deg, #22524f, #002B36);

      }
    </style>
    {% block content %}

    {% endblock %}
```

```

    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
integrity="sha384-
KJ3o2DKtIkVYIK3UENzmM7KCKRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"></script>
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js
" integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>
    <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"
integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl"
crossorigin="anonymous"></script>

    <script
src='https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.bundle.mi
n.js'></script>
    <script
src='https://cdnjs.cloudflare.com/ajax/libs/jquery/3.2.1/jquery.min.js'></scri
pt>
  </body>
</html>

```

Index.html – Main Page for userinterface

```

{% extends 'base.html' %}

{% load static %}
{% block content %}

{% include '_partials/navbar.html' %}
<!DOCTYPE html>
<html>
<head>
    <title>Calculator</title>
    <link rel="stylesheet" type="text/css" href="{% static "css/calc.css" %}">

</head>
<style>
    .jumbotron{
        background: linear-gradient(120deg,#2C3E50, #08488d);
    }
</style>
<body>
    <div class="container my-3">
        <div class="jumbotron">

```

```

        <h1 class="display-6 text-warning" style="margin-top: -5%; text-align: center;">A Simple Calculator Web Application</h1>
        <p class="lead text-center text-success" style="margin-bottom: -5%;">This is a simple calculator application developed by Md. Omar Faruk</p>
    </div>

    <textarea id="resultArea" readonly rows="3" cols="21"></textarea>

    <table>
        <tr>
            <td></td>
            <td></td>
            <td><button id="clrTxt" class="btn btn-danger">C</button></td>
            <td><button id="del" class="btn btn-default">#9746;</button></td>
        </tr>

        <tr>
            <td><button id="num7" class="btn btn-default">7</button></td>
            <td><button id="num8" class="btn btn-default">8</button></td>
            <td><button id="num9" class="btn btn-default">9</button></td>
            <td><button id="op3" class="btn btn-default">div;</button></td>
        </tr>

        <tr>
            <td><button id="num4" class="btn btn-default">4</button></td>
            <td><button id="num5" class="btn btn-default">5</button></td>
            <td><button id="num6" class="btn btn-default">6</button></td>
            <td><button id="op2" class="btn btn-default">times;</button></td>
        </tr>

        <tr>
            <td><button id="num1" class="btn btn-default">1</button></td>
            <td><button id="num2" class="btn btn-default">2</button></td>
            <td><button id="num3" class="btn btn-default">3</button></td>
            <td><button id="op1" class="btn btn-default">minus;</button></td>
        </tr>

        <tr>
            <td><button id="decp" class="btn btn-default">.</button></td>
            <td><button id="num0" class="btn btn-default">0</button></td>
            <td><button id="eq" class="btn btn-default">=</button></td>
            <td><button id="op0" class="btn btn-default">plus;</button></td>
        </tr>
    </table>

```

```

        </table>
    </div>
    <script type="text/javascript" src="{% static 'js/calculator.js' %}"></script>
</body>
</html>
<br>
{% include '_partials/footer.html' %}
{% endblock %}

```

Contact.html

```

{% extends 'base.html' %}

{% load static %}
{% block content %}

{% include '_partials/navbar.html' %}

<h1 class="text-center my-4 text-warning">Contact Me If You Want To Say
Anything !</h1>
<div class="container my-3">
    <div class="row">
        <div class="col-2"></div>
        <div class="col-8">
            <hr>
            <h3 class="text-success text-center">Contact with Admin</h3>
            <hr>
            <form action="/contact" method="POST">
                {% csrf_token %}
                <div class="form-group">
                    <label for="name">Name</label>
                    <input type="text" class="form-control" id="name"
name="name" aria-describedby="name">
                </div>
                <div class="form-group">
                    <label for="email">Email address</label>
                    <input type="email" class="form-control" id="email"
name="email" aria-describedby="emailHelp">
                    <small id="emailHelp" class="form-text text-muted">We'll
never share your email with anyone
                    else.</small>
                </div>
                <div class="form-group">
                    <label for="phone">Phone Number</label>
                    <input type="phone" class="form-control" id="phone"
name="phone">
                </div>
                <div class="form-group">

```

```

        <label for="content">Description - Issues</label>
        <textarea class="form-control" name="content" id="content"
cols="30" rows="6"></textarea>
    </div>
    <button type="submit" class="btn btn-primary">Submit</button>
</form>
</div>
</div>
</div>
<br>
{% include '_partials/footer.html' %}
{% endblock %}

```

About.html

```

{% extends 'base.html' %}

{% load static %}
{% block content %}

{% include '_partials/navbar.html' %}

<style>
    a {
        text-decoration: none !important;
    }
</style>
<section id="showcase-inner" class="py-5 text-warning">
    <div class="container">
        <div class="row text-center">
            <div class="col-md-12">

                <p class="lead">Lakshay</p>
            </div>
        </div>
    </div>
</section>

<!-- Breadcrumb -->
<section id="bc" class="mt-2">
    <div class="container">
        <nav aria-label="breadcrumb">
            <ol class="breadcrumb">
                <li class="breadcrumb-item">
                    <a href="/"> <!-- index is name of the urls -->
                        <i class="fas fa-home"></i> Home</a>
                </li>
                <li class="breadcrumb-item active"> About</li>
            </ol>
        </nav>
    </div>
</section>

```



```

        </ol>
    </nav>
</div>
</section>

<section id="about" class="py-4" style="text-align: center;">
    <div class="container">
        <div class="row">
            <div class="col-md-12">
                <h2 class="text-success">You Can Do Your Calculation Here</h2>
                <p class="lead text-info">Lorem ipsum dolor sit, amet consectetur
adipisicing elit. Sunt, pariatur!</p>
                
                <p class="mt-4 text-light">Lorem ipsum dolor sit amet consectetur
adipisicing elit. Perspiciatis esse officia repudiandae ad saepe ex, amet
neque quod accusamus rem quia magnam magni dolorum facilis ullam
minima perferendis? Exercitationem at quaerat
commodi id libero eveniet harum perferendis laborum molestias
quia.</p>
            </div>
        </div>
    </div>
</section>

<br>
{% include '_partials/footer.html' %}
{% endblock %}

```

Calc.css

```

table{
    margin-left:auto;
    margin-right:auto;
}

textarea{
    display: block;
    margin-bottom: 8px;
    margin-left:auto;
    margin-right:auto;
    border-radius: 5px;
}

button{
    height: 40px;
    width: 40px;
}

```

Calc.js includes actionlistener that pushes values from GUI.

```

var numKeys = [];
var opns = [];

```

```

var res = document.querySelector("#resultArea");
var clrBtn = document.querySelector("#clrTxt");
var delBtn = document.querySelector("#del");
var eqBtn = document.querySelector("#eq");
var decPoint = document.querySelector("#decp");
var opnSyms = ["+", "-", "*", "/"];

for(var i=0;i<=9;i++){
    (function(i){
        qs = "#num" + i;
        numKeys.push(document.querySelector(qs));
        numKeys[i].addEventListener("click", function(){
            res.textContent += i;
        });
    })(i);
}

for(var i=0;i<=3;i++){
    (function(i){
        qs = "#op" + i;
        opns.push(document.querySelector(qs));
        opns[i].addEventListener("click", function(){
            res.textContent += opnSyms[i];
        });
    })(i);
}

clrBtn.addEventListener("click", function(){
    res.textContent = "";
});

delBtn.addEventListener("click", function(){
    res.textContent = res.textContent.substring(0, res.textContent.length - 1);
});

decPoint.addEventListener("click", function(){
    res.textContent += ".";
});

eqBtn.addEventListener("click", function(){
    try{
        res.textContent = eval(res.textContent);
    }
    catch(e){
        res.textContent = "Invalid Syntax";
    }
});

```

Base.css

```
/*
    DJANGO Admin styles
*/

@import url(fonts.css);

body {
    margin: 0;
    padding: 0;
    font-size: 14px;
    font-family: "Roboto","Lucida Grande","DejaVu Sans","Bitstream Vera
Sans",Verdana,Arial,sans-serif;
    color: #333;
    background: #fff;
}

/* LINKS */

a:link, a:visited {
    color: #447e9b;
    text-decoration: none;
}

a:focus, a:hover {
    color: #036;
}

a:focus {
    text-decoration: underline;
}

a img {
    border: none;
}

a.section:link, a.section:visited {
    color: #fff;
    text-decoration: none;
}

a.section:focus, a.section:hover {
    text-decoration: underline;
}
```

```
/* GLOBAL DEFAULTS */

p, ol, ul, dl {
  margin: .2em 0 .8em 0;
}

p {
  padding: 0;
  line-height: 140%;
}

h1,h2,h3,h4,h5 {
  font-weight: bold;
}

h1 {
  margin: 0 0 20px;
  font-weight: 300;
  font-size: 20px;
  color: #666;
}

h2 {
  font-size: 16px;
  margin: 1em 0 .5em 0;
}

h2.subhead {
  font-weight: normal;
  margin-top: 0;
}

h3 {
  font-size: 14px;
  margin: .8em 0 .3em 0;
  color: #666;
  font-weight: bold;
}

h4 {
  font-size: 12px;
  margin: 1em 0 .8em 0;
  padding-bottom: 3px;
}

h5 {
  font-size: 10px;
  margin: 1.5em 0 .5em 0;
}
```

```
    color: #666;
    text-transform: uppercase;
    letter-spacing: 1px;
}

ul li {
    list-style-type: square;
    padding: 1px 0;
}

li ul {
    margin-bottom: 0;
}

li, dt, dd {
    font-size: 13px;
    line-height: 20px;
}

dt {
    font-weight: bold;
    margin-top: 4px;
}

dd {
    margin-left: 0;
}

form {
    margin: 0;
    padding: 0;
}

fieldset {
    margin: 0;
    padding: 0;
    border: none;
    border-top: 1px solid #eee;
}

blockquote {
    font-size: 11px;
    color: #777;
    margin-left: 2px;
    padding-left: 10px;
    border-left: 5px solid #ddd;
}
```

```
code, pre {
    font-family: "Bitstream Vera Sans Mono", Monaco, "Courier New", Courier,
monospace;
    color: #666;
    font-size: 12px;
}

pre.literal-block {
    margin: 10px;
    background: #eee;
    padding: 6px 8px;
}

code strong {
    color: #930;
}

hr {
    clear: both;
    color: #eee;
    background-color: #eee;
    height: 1px;
    border: none;
    margin: 0;
    padding: 0;
    font-size: 1px;
    line-height: 1px;
}

/* TEXT STYLES & MODIFIERS */

.small {
    font-size: 11px;
}

.tiny {
    font-size: 10px;
}

p.tiny {
    margin-top: -2px;
}

.mini {
    font-size: 10px;
}

p.mini {
```

```
    margin-top: -3px;
}

.help, p.help, form p.help, div.help, form div.help, div.help li {
    font-size: 11px;
    color: #999;
}

div.help ul {
    margin-bottom: 0;
}

.help-tooltip {
    cursor: help;
}

p img, h1 img, h2 img, h3 img, h4 img, td img {
    vertical-align: middle;
}

.quiet, a.quiet:link, a.quiet:visited {
    color: #999;
    font-weight: normal;
}

.float-right {
    float: right;
}

.float-left {
    float: left;
}

.clear {
    clear: both;
}

.align-left {
    text-align: left;
}

.align-right {
    text-align: right;
}

.example {
    margin: 10px 0;
    padding: 5px 10px;
```

```
    background: #efefef;
}

.nowrap {
    white-space: nowrap;
}

/* TABLES */

table {
    border-collapse: collapse;
    border-color: #ccc;
}

td, th {
    font-size: 13px;
    line-height: 16px;
    border-bottom: 1px solid #eee;
    vertical-align: top;
    padding: 8px;
    font-family: "Roboto", "Lucida Grande", Verdana, Arial, sans-serif;
}

th {
    font-weight: 600;
    text-align: left;
}

thead th,
tfoot td {
    color: #666;
    padding: 5px 10px;
    font-size: 11px;
    background: #fff;
    border: none;
    border-top: 1px solid #eee;
    border-bottom: 1px solid #eee;
}

tfoot td {
    border-bottom: none;
    border-top: 1px solid #eee;
}

thead th.required {
    color: #000;
}
```



```
tr.alt {
    background: #f6f6f6;
}

.row1 {
    background: #fff;
}

.row2 {
    background: #f9f9f9;
}

/* SORTABLE TABLES */

thead th {
    padding: 5px 10px;
    line-height: normal;
    text-transform: uppercase;
    background: #f6f6f6;
}

thead th a:link, thead th a:visited {
    color: #666;
}

thead th.sorted {
    background: #eee;
}

thead th.sorted .text {
    padding-right: 42px;
}

table thead th .text span {
    padding: 8px 10px;
    display: block;
}

table thead th .text a {
    display: block;
    cursor: pointer;
    padding: 8px 10px;
}

table thead th .text a:focus, table thead th .text a:hover {
    background: #eee;
}
```

```
thead th.sorted a.sortremove {
    visibility: hidden;
}

table thead th.sorted:hover a.sortremove {
    visibility: visible;
}

table thead th.sorted .sortoptions {
    display: block;
    padding: 9px 5px 0 5px;
    float: right;
    text-align: right;
}

table thead th.sorted .sortpriority {
    font-size: .8em;
    min-width: 12px;
    text-align: center;
    vertical-align: 3px;
    margin-left: 2px;
    margin-right: 2px;
}

table thead th.sorted .sortoptions a {
    position: relative;
    width: 14px;
    height: 14px;
    display: inline-block;
    background: url(../img/sorting-icons.svg) 0 0 no-repeat;
    background-size: 14px auto;
}

table thead th.sorted .sortoptions a.sortremove {
    background-position: 0 0;
}

table thead th.sorted .sortoptions a.sortremove:after {
    content: '\\';
    position: absolute;
    top: -6px;
    left: 3px;
    font-weight: 200;
    font-size: 18px;
    color: #999;
}

table thead th.sorted .sortoptions a.sortremove:focus:after,
```

```

table thead th.sorted .sortoptions a.sortremove:hover:after {
    color: #447e9b;
}

table thead th.sorted .sortoptions a.sortremove:focus,
table thead th.sorted .sortoptions a.sortremove:hover {
    background-position: 0 -14px;
}

table thead th.sorted .sortoptions a.ascending {
    background-position: 0 -28px;
}

table thead th.sorted .sortoptions a.ascending:focus,
table thead th.sorted .sortoptions a.ascending:hover {
    background-position: 0 -42px;
}

table thead th.sorted .sortoptions a.descending {
    top: 1px;
    background-position: 0 -56px;
}

table thead th.sorted .sortoptions a.descending:focus,
table thead th.sorted .sortoptions a.descending:hover {
    background-position: 0 -70px;
}

/* FORM DEFAULTS */

input, textarea, select, .form-row p, form .button {
    margin: 2px 0;
    padding: 2px 3px;
    vertical-align: middle;
    font-family: "Roboto", "Lucida Grande", Verdana, Arial, sans-serif;
    font-weight: normal;
    font-size: 13px;
}

.form-row div.help {
    padding: 2px 3px;
}

textarea {
    vertical-align: top;
}

input[type=text], input[type=password], input[type=email], input[type=url],
input[type=number], input[type=tel], textarea, select, .vTextField {

```

```

border: 1px solid #ccc;
border-radius: 4px;
padding: 5px 6px;
margin-top: 0;
}

input[type=text]:focus, input[type=password]:focus, input[type=email]:focus,
input[type=url]:focus, input[type=number]:focus, input[type=tel]:focus,
textarea:focus, select:focus, .vTextField:focus {
    border-color: #999;
}

select {
    height: 30px;
}

select[multiple] {
    /* Allow HTML size attribute to override the height in the rule above. */
    height: auto;
    min-height: 150px;
}

/* FORM BUTTONS */

.button, input[type=submit], input[type=button], .submit-row input, a.button {
    background: #79aec8;
    padding: 10px 15px;
    border: none;
    border-radius: 4px;
    color: #fff;
    cursor: pointer;
}

a.button {
    padding: 4px 5px;
}

.button:active, input[type=submit]:active, input[type=button]:active,
.button:focus, input[type=submit]:focus, input[type=button]:focus,
.button:hover, input[type=submit]:hover, input[type=button]:hover {
    background: #609ab6;
}

.button[disabled], input[type=submit][disabled], input[type=button][disabled]
{
    opacity: 0.4;
}

```

```

.button.default, input[type=submit].default, .submit-row input.default {
    float: right;
    border: none;
    font-weight: 400;
    background: #417690;
}

.button.default:active, input[type=submit].default:active,
.button.default:focus, input[type=submit].default:focus,
.button.default:hover, input[type=submit].default:hover {
    background: #205067;
}

.button[disabled].default,
input[type=submit][disabled].default,
input[type=button][disabled].default {
    opacity: 0.4;
}

/* MODULES */

.module {
    border: none;
    margin-bottom: 30px;
    background: #fff;
}

.module p, .module ul, .module h3, .module h4, .module dl, .module pre {
    padding-left: 10px;
    padding-right: 10px;
}

.module blockquote {
    margin-left: 12px;
}

.module ul, .module ol {
    margin-left: 1.5em;
}

.module h3 {
    margin-top: .6em;
}

.module h2, .module caption, .inline-group h2 {
    margin: 0;
    padding: 8px;
    font-weight: 400;
}

```

```
    font-size: 13px;
    text-align: left;
    background: #79aec8;
    color: #fff;
}

.module caption,
.inline-group h2 {
    font-size: 12px;
    letter-spacing: 0.5px;
    text-transform: uppercase;
}

.module table {
    border-collapse: collapse;
}

/* MESSAGES & ERRORS */

ul.messagelist {
    padding: 0;
    margin: 0;
}

ul.messagelist li {
    display: block;
    font-weight: 400;
    font-size: 13px;
    padding: 10px 10px 10px 65px;
    margin: 0 0 10px 0;
    background: #dfd url(../img/icon-yes.svg) 40px 12px no-repeat;
    background-size: 16px auto;
    color: #333;
}

ul.messagelist li.warning {
    background: #ffc url(../img/icon-alert.svg) 40px 14px no-repeat;
    background-size: 14px auto;
}

ul.messagelist li.error {
    background: #ffefef url(../img/icon-no.svg) 40px 12px no-repeat;
    background-size: 16px auto;
}

.errornote {
    font-size: 14px;
    font-weight: 700;
```

```
display: block;
padding: 10px 12px;
margin: 0 0 10px 0;
color: #ba2121;
border: 1px solid #ba2121;
border-radius: 4px;
background-color: #fff;
background-position: 5px 12px;
}

ul.errorlist {
margin: 0 0 4px;
padding: 0;
color: #ba2121;
background: #fff;
}

ul.errorlist li {
font-size: 13px;
display: block;
margin-bottom: 4px;
}

ul.errorlist li:first-child {
margin-top: 0;
}

ul.errorlist li a {
color: inherit;
text-decoration: underline;
}

td ul.errorlist {
margin: 0;
padding: 0;
}

td ul.errorlist li {
margin: 0;
}

.form-row.errors {
margin: 0;
border: none;
border-bottom: 1px solid #eee;
background: none;
}
```

```
.form-row.errors ul.errorlist li {
    padding-left: 0;
}

.errors input, .errors select, .errors textarea {
    border: 1px solid #ba2121;
}

div.system-message {
    background: #ffc;
    margin: 10px;
    padding: 6px 8px;
    font-size: .8em;
}

div.system-message p.system-message-title {
    padding: 4px 5px 4px 25px;
    margin: 0;
    color: #c11;
    background: #ffefef url(../img/icon-no.svg) 5px 5px no-repeat;
}

.description {
    font-size: 12px;
    padding: 5px 0 0 12px;
}

/* BREADCRUMBS */

div.breadcrumbs {
    background: #79aec8;
    padding: 10px 40px;
    border: none;
    font-size: 14px;
    color: #c4dce8;
    text-align: left;
}

div.breadcrumbs a {
    color: #fff;
}

div.breadcrumbs a:focus, div.breadcrumbs a:hover {
    color: #c4dce8;
}

/* ACTION ICONS */
```



```

.viewlink, .inlineviewlink {
    padding-left: 16px;
    background: url(../img/icon-viewlink.svg) 0 1px no-repeat;
}

.addlink {
    padding-left: 16px;
    background: url(../img/icon-addlink.svg) 0 1px no-repeat;
}

.changelink, .inlinechangelink {
    padding-left: 16px;
    background: url(../img/icon-changelink.svg) 0 1px no-repeat;
}

.deletelink {
    padding-left: 16px;
    background: url(../img/icon-deletelink.svg) 0 1px no-repeat;
}

a.deletelink:link, a.deletelink:visited {
    color: #CC3434;
}

a.deletelink:focus, a.deletelink:hover {
    color: #993333;
    text-decoration: none;
}

/* OBJECT TOOLS */

.object-tools {
    font-size: 10px;
    font-weight: bold;
    padding-left: 0;
    float: right;
    position: relative;
    margin-top: -48px;
}

.form-row .object-tools {
    margin-top: 5px;
    margin-bottom: 5px;
    float: none;
    height: 2em;
    padding-left: 3.5em;
}

```

```

.object-tools li {
    display: block;
    float: left;
    margin-left: 5px;
    height: 16px;
}

.object-tools a {
    border-radius: 15px;
}

.object-tools a:link, .object-tools a:visited {
    display: block;
    float: left;
    padding: 3px 12px;
    background: #999;
    font-weight: 400;
    font-size: 11px;
    text-transform: uppercase;
    letter-spacing: 0.5px;
    color: #fff;
}

.object-tools a:focus, .object-tools a:hover {
    background-color: #417690;
}

.object-tools a:focus{
    text-decoration: none;
}

.object-tools a.viewsitelink, .object-tools a.golink, .object-tools a.addlink {
    background-repeat: no-repeat;
    background-position: right 7px center;
    padding-right: 26px;
}

.object-tools a.viewsitelink, .object-tools a.golink {
    background-image: url(../img/tooltag-arrowright.svg);
}

.object-tools a.addlink {
    background-image: url(../img/tooltag-add.svg);
}

/* OBJECT HISTORY */

table#change-history {

```

```
        width: 100%;
    }

    table#change-history tbody th {
        width: 16em;
    }

    /* PAGE STRUCTURE */

    #container {
        position: relative;
        width: 100%;
        min-width: 980px;
        padding: 0;
    }

    #content {
        padding: 20px 40px;
    }

    .dashboard #content {
        width: 600px;
    }

    #content-main {
        float: left;
        width: 100%;
    }

    #content-related {
        float: right;
        width: 260px;
        position: relative;
        margin-right: -300px;
    }

    #footer {
        clear: both;
        padding: 10px;
    }

    /* COLUMN TYPES */

    .colMS {
        margin-right: 300px;
    }

    .colSM {
```

```
        margin-left: 300px;
    }

.colSM #content-related {
    float: left;
    margin-right: 0;
    margin-left: -300px;
}

.colSM #content-main {
    float: right;
}

.popup .colM {
    width: auto;
}

/* HEADER */

#header {
    width: auto;
    height: auto;
    display: flex;
    justify-content: space-between;
    align-items: center;
    padding: 10px 40px;
    background: #417690;
    color: #ffc;
    overflow: hidden;
}

#header a:link, #header a:visited {
    color: #fff;
}

#header a:focus, #header a:hover {
    text-decoration: underline;
}

#branding {
    float: left;
}

#branding h1 {
    padding: 0;
    margin: 0 20px 0 0;
    font-weight: 300;
    font-size: 24px;
}
```

```
    color: #f5dd5d;
}

#branding h1, #branding h1 a:link, #branding h1 a:visited {
    color: #f5dd5d;
}

#branding h2 {
    padding: 0 10px;
    font-size: 14px;
    margin: -8px 0 8px 0;
    font-weight: normal;
    color: #ffc;
}

#branding a:hover {
    text-decoration: none;
}

#user-tools {
    float: right;
    padding: 0;
    margin: 0 0 0 20px;
    font-weight: 300;
    font-size: 11px;
    letter-spacing: 0.5px;
    text-transform: uppercase;
    text-align: right;
}

#user-tools a {
    border-bottom: 1px solid rgba(255, 255, 255, 0.25);
}

#user-tools a:focus, #user-tools a:hover {
    text-decoration: none;
    border-bottom-color: #79aec8;
    color: #79aec8;
}

/* SIDEBAR */

#content-related {
    background: #f8f8f8;
}

#content-related .module {
    background: none;
```

```
}

#content-related h3 {
  font-size: 14px;
  color: #666;
  padding: 0 16px;
  margin: 0 0 16px;
}

#content-related h4 {
  font-size: 13px;
}

#content-related p {
  padding-left: 16px;
  padding-right: 16px;
}

#content-related .actionlist {
  padding: 0;
  margin: 16px;
}

#content-related .actionlist li {
  line-height: 1.2;
  margin-bottom: 10px;
  padding-left: 18px;
}

#content-related .module h2 {
  background: none;
  padding: 16px;
  margin-bottom: 16px;
  border-bottom: 1px solid #eaeaea;
  font-size: 18px;
  color: #333;
}

.delete-confirmation form input[type="submit"] {
  background: #ba2121;
  border-radius: 4px;
  padding: 10px 15px;
  color: #fff;
}

.delete-confirmation form input[type="submit"]:active,
.delete-confirmation form input[type="submit"]:focus,
.delete-confirmation form input[type="submit"]:hover {
```

```
        background: #a41515;
    }

.delete-confirmation form .cancel-link {
    display: inline-block;
    vertical-align: middle;
    height: 15px;
    line-height: 15px;
    background: #ddd;
    border-radius: 4px;
    padding: 10px 15px;
    color: #333;
    margin: 0 0 0 10px;
}

.delete-confirmation form .cancel-link:active,
.delete-confirmation form .cancel-link:focus,
.delete-confirmation form .cancel-link:hover {
    background: #ccc;
}

/* POPUP */
.popup #content {
    padding: 20px;
}

.popup #container {
    min-width: 0;
}

.popup #header {
    padding: 10px 20px;
}
```

```
Autocomplete.css
select.admin-autocomplete {
    width: 20em;
}

.select2-container--admin-autocomplete.select2-container {
    min-height: 30px;
}

.select2-container--admin-autocomplete .select2-selection--single,
.select2-container--admin-autocomplete .select2-selection--multiple {
    min-height: 30px;
    padding: 0;
}

.select2-container--admin-autocomplete.select2-container--focus .select2-
selection,
.select2-container--admin-autocomplete.select2-container--open .select2-
selection {
    border-color: #999;
    min-height: 30px;
}

.select2-container--admin-autocomplete.select2-container--focus .select2-
selection.select2-selection--single,
.select2-container--admin-autocomplete.select2-container--open .select2-
selection.select2-selection--single {
    padding: 0;
}

.select2-container--admin-autocomplete.select2-container--focus .select2-
selection.select2-selection--multiple,
.select2-container--admin-autocomplete.select2-container--open .select2-
selection.select2-selection--multiple {
    padding: 0;
}

.select2-container--admin-autocomplete .select2-selection--single {
    background-color: #fff;
    border: 1px solid #ccc;
    border-radius: 4px;
}

.select2-container--admin-autocomplete .select2-selection--single .select2-
selection__rendered {
    color: #444;
    line-height: 30px;
}
```



```
.select2-container--admin-autocomplete .select2-selection--single .select2-selection__clear {  
    cursor: pointer;  
    float: right;  
    font-weight: bold;  
}
```

```
.select2-container--admin-autocomplete .select2-selection--single .select2-selection__placeholder {  
    color: #999;  
}
```

```
.select2-container--admin-autocomplete .select2-selection--single .select2-selection__arrow {  
    height: 26px;  
    position: absolute;  
    top: 1px;  
    right: 1px;  
    width: 20px;  
}
```

```
.select2-container--admin-autocomplete .select2-selection--single .select2-selection__arrow b {  
    border-color: #888 transparent transparent transparent;  
    border-style: solid;  
    border-width: 5px 4px 0 4px;  
    height: 0;  
    left: 50%;  
    margin-left: -4px;  
    margin-top: -2px;  
    position: absolute;  
    top: 50%;  
    width: 0;  
}
```

```
.select2-container--admin-autocomplete[dir="rtl"] .select2-selection--single .select2-selection__clear {  
    float: left;  
}
```

```
.select2-container--admin-autocomplete[dir="rtl"] .select2-selection--single .select2-selection__arrow {  
    left: 1px;  
    right: auto;  
}
```

```
.select2-container--admin-autocomplete.select2-container--disabled .select2-
selection--single {
    background-color: #eee;
    cursor: default;
}

.select2-container--admin-autocomplete.select2-container--disabled .select2-
selection--single .select2-selection__clear {
    display: none;
}

.select2-container--admin-autocomplete.select2-container--open .select2-
selection--single .select2-selection__arrow b {
    border-color: transparent transparent #888 transparent;
    border-width: 0 4px 5px 4px;
}

.select2-container--admin-autocomplete .select2-selection--multiple {
    background-color: white;
    border: 1px solid #ccc;
    border-radius: 4px;
    cursor: text;
}

.select2-container--admin-autocomplete .select2-selection--multiple .select2-
selection__rendered {
    box-sizing: border-box;
    list-style: none;
    margin: 0;
    padding: 0 5px;
    width: 100%;
}

.select2-container--admin-autocomplete .select2-selection--multiple .select2-
selection__rendered li {
    list-style: none;
}

.select2-container--admin-autocomplete .select2-selection--multiple .select2-
selection__placeholder {
    color: #999;
    margin-top: 5px;
    float: left;
}

.select2-container--admin-autocomplete .select2-selection--multiple .select2-
selection__clear {
    cursor: pointer;
```

```

float: right;
font-weight: bold;
margin: 5px;
}

.select2-container--admin-autocomplete .select2-selection--multiple .select2-
selection__choice {
background-color: #e4e4e4;
border: 1px solid #ccc;
border-radius: 4px;
cursor: default;
float: left;
margin-right: 5px;
margin-top: 5px;
padding: 0 5px;
}

.select2-container--admin-autocomplete .select2-selection--multiple .select2-
selection__choice__remove {
color: #999;
cursor: pointer;
display: inline-block;
font-weight: bold;
margin-right: 2px;
}

.select2-container--admin-autocomplete .select2-selection--multiple .select2-
selection__choice__remove:hover {
color: #333;
}

.select2-container--admin-autocomplete[dir="rtl"] .select2-selection--multiple
.select2-selection__choice, .select2-container--admin-autocomplete[dir="rtl"]
.select2-selection--multiple .select2-selection__placeholder, .select2-
container--admin-autocomplete[dir="rtl"] .select2-selection--multiple
.select2-search--inline {
float: right;
}

.select2-container--admin-autocomplete[dir="rtl"] .select2-selection--multiple
.select2-selection__choice {
margin-left: 5px;
margin-right: auto;
}

.select2-container--admin-autocomplete[dir="rtl"] .select2-selection--multiple
.select2-selection__choice__remove {
margin-left: 2px;

```

```
margin-right: auto;
}

.select2-container--admin-autocomplete.select2-container--focus .select2-
selection--multiple {
  border: solid #999 1px;
  outline: 0;
}

.select2-container--admin-autocomplete.select2-container--disabled .select2-
selection--multiple {
  background-color: #eee;
  cursor: default;
}

.select2-container--admin-autocomplete.select2-container--disabled .select2-
selection__choice__remove {
  display: none;
}

.select2-container--admin-autocomplete.select2-container--open.select2-
container--above .select2-selection--single, .select2-container--admin-
autocomplete.select2-container--open.select2-container--above .select2-
selection--multiple {
  border-top-left-radius: 0;
  border-top-right-radius: 0;
}

.select2-container--admin-autocomplete.select2-container--open.select2-
container--below .select2-selection--single, .select2-container--admin-
autocomplete.select2-container--open.select2-container--below .select2-
selection--multiple {
  border-bottom-left-radius: 0;
  border-bottom-right-radius: 0;
}

.select2-container--admin-autocomplete .select2-search--dropdown .select2-
search__field {
  border: 1px solid #ccc;
}

.select2-container--admin-autocomplete .select2-search--inline .select2-
search__field {
  background: transparent;
  border: none;
  outline: 0;
  box-shadow: none;
  -webkit-appearance: textfield;
}
```

```

}

.select2-container--admin-autocomplete .select2-results > .select2-
results__options {
    max-height: 200px;
    overflow-y: auto;
}

.select2-container--admin-autocomplete .select2-results__option[role=group] {
    padding: 0;
}

.select2-container--admin-autocomplete .select2-results__option[aria-
disabled=true] {
    color: #999;
}

.select2-container--admin-autocomplete .select2-results__option[aria-
selected=true] {
    background-color: #ddd;
}

.select2-container--admin-autocomplete .select2-results__option .select2-
results__option {
    padding-left: 1em;
}

.select2-container--admin-autocomplete .select2-results__option .select2-
results__option .select2-results__group {
    padding-left: 0;
}

.select2-container--admin-autocomplete .select2-results__option .select2-
results__option .select2-results__option {
    margin-left: -1em;
    padding-left: 2em;
}

.select2-container--admin-autocomplete .select2-results__option .select2-
results__option .select2-results__option .select2-results__option {
    margin-left: -2em;
    padding-left: 3em;
}

.select2-container--admin-autocomplete .select2-results__option .select2-
results__option .select2-results__option .select2-results__option .select2-
results__option {
    margin-left: -3em;
}

```

```

padding-left: 4em;
}

.select2-container--admin-autocomplete .select2-results__option .select2-
results__option .select2-results__option .select2-results__option .select2-
results__option .select2-results__option {
margin-left: -4em;
padding-left: 5em;
}

.select2-container--admin-autocomplete .select2-results__option .select2-
results__option .select2-results__option .select2-results__option .select2-
results__option .select2-results__option .select2-results__option {
margin-left: -5em;
padding-left: 6em;
}

.select2-container--admin-autocomplete .select2-results__option--
highlighted[aria-selected] {
background-color: #79aec8;
color: white;
}

.select2-container--admin-autocomplete .select2-results__group {
cursor: default;
display: block;
padding: 6px;
}

```

Login.css

```

/* LOGIN FORM */

body.login {
background: #f8f8f8;
}

.login #header {
height: auto;
padding: 15px 16px;
justify-content: center;
}

.login #header h1 {
font-size: 18px;
}

.login #header h1 a {
color: #fff;
}

```

```
}

.login #content {
  padding: 20px 20px 0;
}

.login #container {
  background: #fff;
  border: 1px solid #eaeaea;
  border-radius: 4px;
  overflow: hidden;
  width: 28em;
  min-width: 300px;
  margin: 100px auto;
}

.login #content-main {
  width: 100%;
}

.login .form-row {
  padding: 4px 0;
  float: left;
  width: 100%;
  border-bottom: none;
}

.login .form-row label {
  padding-right: 0.5em;
  line-height: 2em;
  font-size: 1em;
  clear: both;
  color: #333;
}

.login .form-row #id_username, .login .form-row #id_password {
  clear: both;
  padding: 8px;
  width: 100%;
  -webkit-box-sizing: border-box;
  -moz-box-sizing: border-box;
  box-sizing: border-box;
}

.login span.help {
  font-size: 10px;
  display: block;
}
```

```

.login .submit-row {
  clear: both;
  padding: 1em 0 0 9.4em;
  margin: 0;
  border: none;
  background: none;
  text-align: left;
}

.login .password-reset-link {
  text-align: center;
}

```

Footer.html typically contains information about the author of the section, copyright data or links to related documents

```

<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">

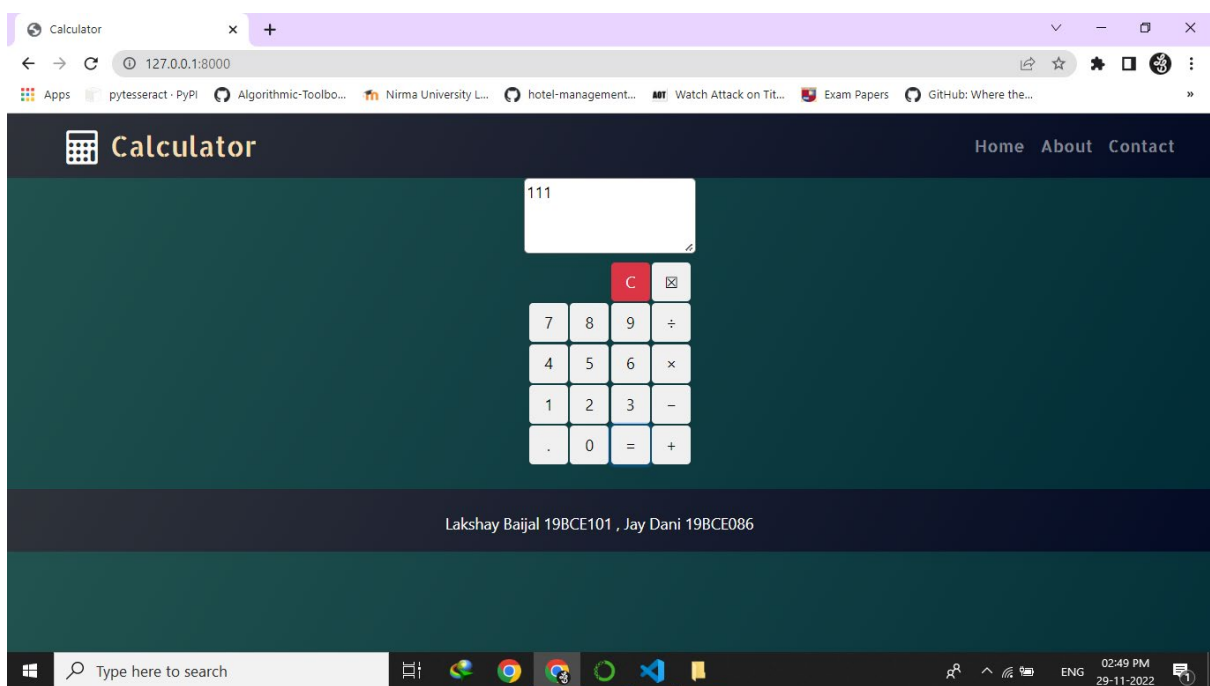
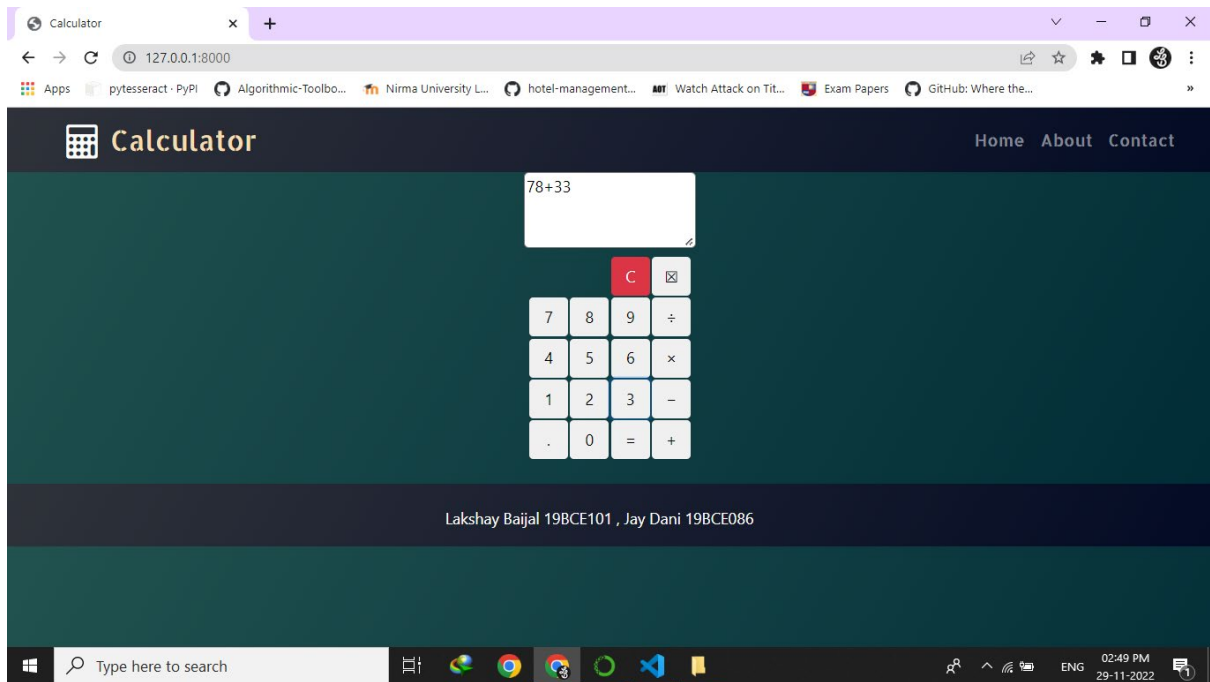
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/font-
awesome/4.7.0/css/font-awesome.min.css">
</head>

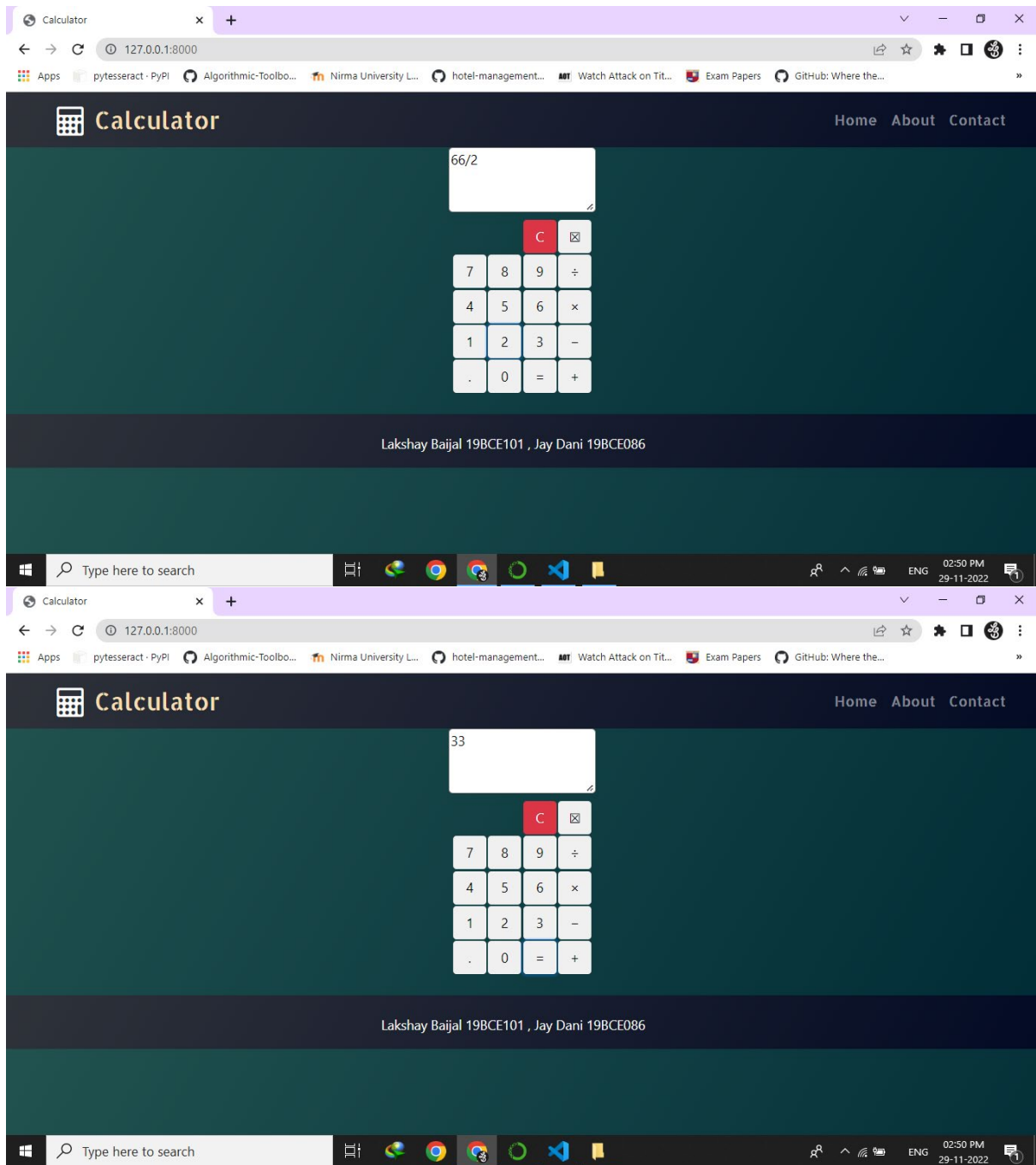
<style>
  footer {
    padding: 0px 0px 0px 0px;
    background-color: #212529;
    margin: 0px;
  }

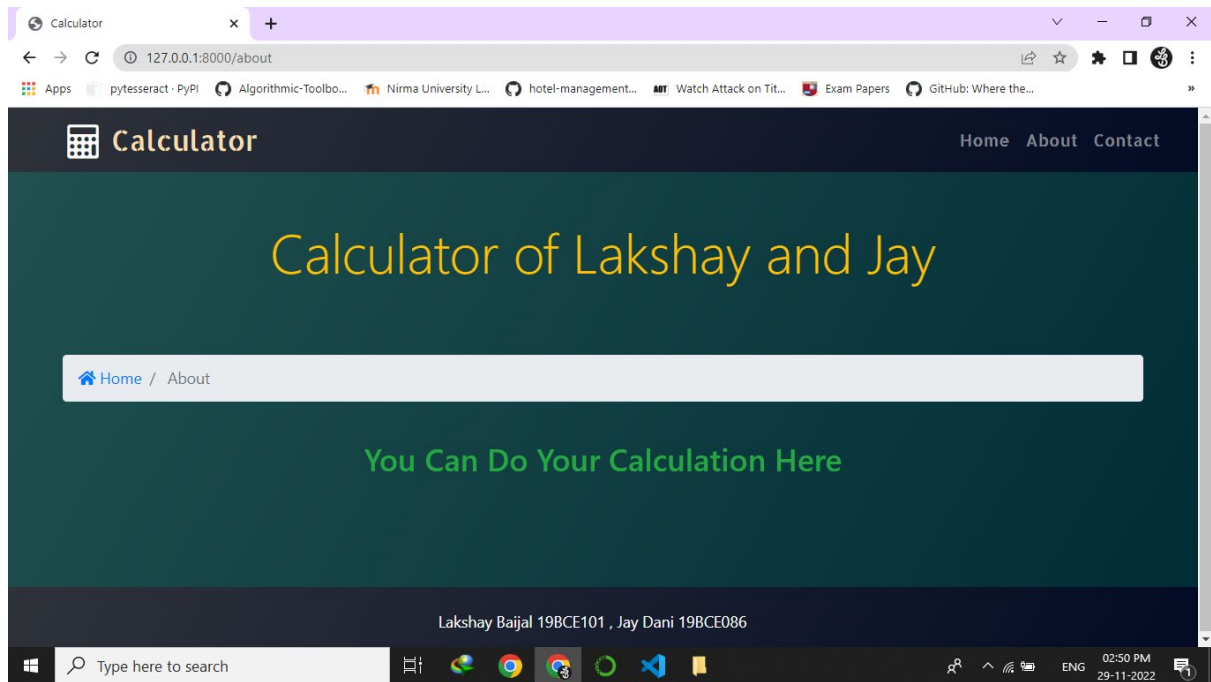
  .fa {
    padding: 20px;
    font-size: 23px;
    width: 60px;
    text-align: center;
    text-decoration: none;
    margin: 5px 2px;
    border-radius: 50%;
  }

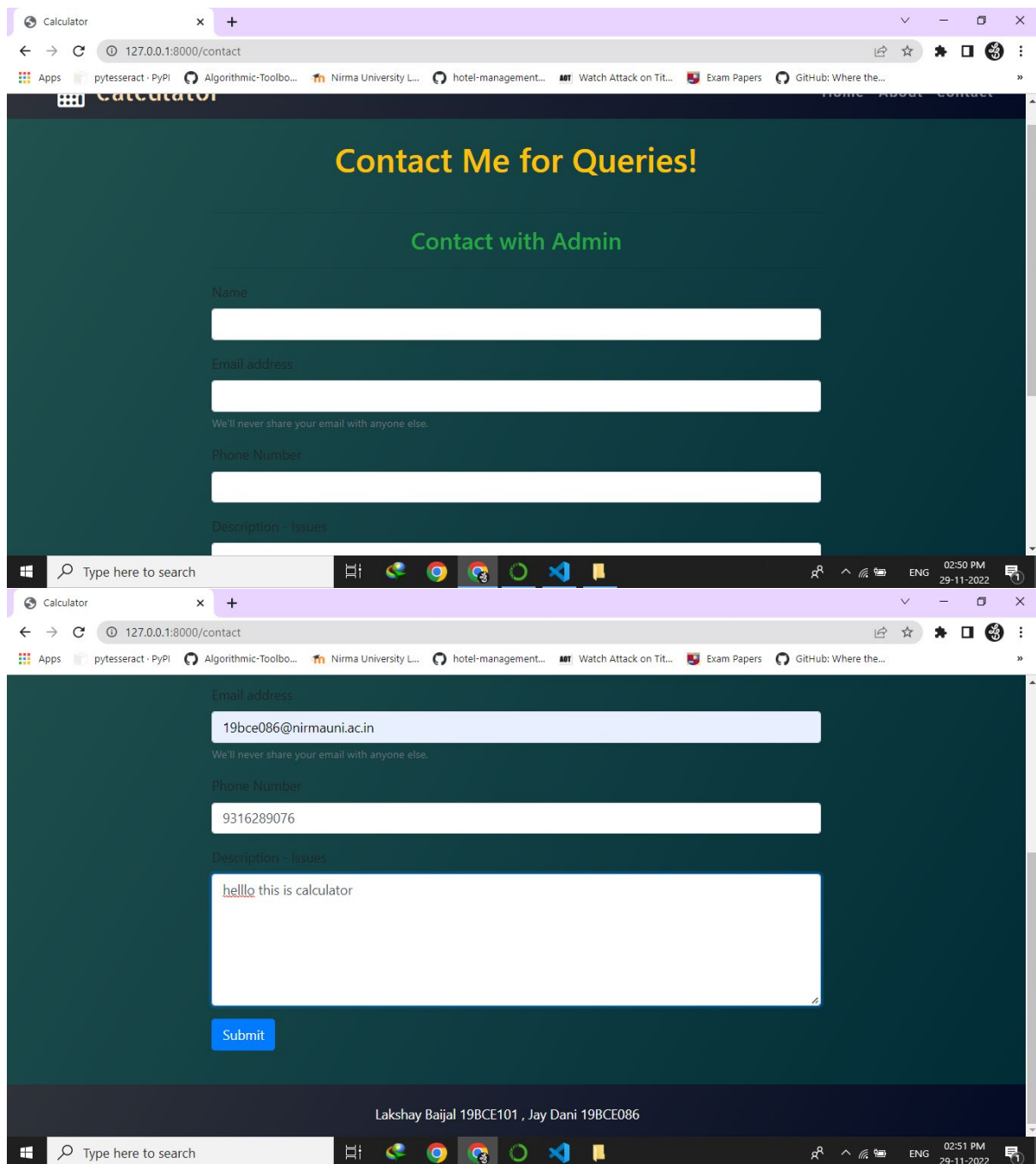
  .fa:hover {
    opacity: 0.5;
  }

```







Conclusion:

Learning Django can be immensely beneficial for anyone aspiring to become a programmer or web developer. With Django, you can more effectively build functional, secure, versatile sites and applications that are both efficient and user-friendly.

