

# Sprint-3

## Application Building

### CREATE HTML FILES

Date	11 Nov 2022
TeamID	PNT2022TMID15718
ProjectName	Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation

#### TASK:

*We use HTML to create the front end part of the web page.*

#### HTML CODE FOR HOME PAGE:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8" />

  <meta http-equiv="X-UA-Compatible" content="IE=edge" />

  <meta name="viewport" content="width=device-width, initial-scale=1.0" />

  <title>Life Care - Heart Prediction Online</title>

  <link          rel="shortcut          icon"          href="{ {url_for('static',
filename='images/fevicon.png' )} }" type="image/x-icon">

  <link                                                  rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/aos/2.3.1/aos.css" />

  <link
href="https://fonts.googleapis.com/css2?family=Playfair+Display:wght@600&dis
play=swap" rel="stylesheet" />
```

```
<link rel="stylesheet" href="{ {url_for('static', filename='css/style.css' )} }" />
<script                                src="https://kit.fontawesome.com/64d58efce2.js"
crossorigin="anonymous">
    </script>
</head>

<body>
    <div class="wrapper">
        <!--Navigation Bar-->
        <div class="nav">
            <div class="logo">
                <a href="/">
                    
                </a>
            </div>
            <div class="links">
                <a href="/home" class="mainLink">Home</a>
                <a href="/info">Info</a>
                <a href="/about">About Us</a>
                <a href="/contact">Contact Us</a>
                <a href="/upload" class="btn1">Predict</a>
            </div>
        </div>
        <!--Landing Page-->
        <div class="landing">
            <div class="landingText" data-aos="fade-up" data-aos-duration="1000">
                <h1>
```

## Classification of Arrhythmia

<span style="color: #e0501b; font-size: 4vw">Prediction</span>

</h1>

<h3>

According to the World Health Organization (WHO), cardiovascular diseases (CVDs) are the number one cause of death today. Over 17.7 million people died from CVDs in the year 2017 all over the world which...

</h3>

<div class="btn2"><a href="/info">Read more</a>

</div>

</div>

<div class="landingImage" data-aos="fade-down" data-aos-duration="2000">



</div>

</div>

<!--Service Section-->

<div class="about">

<div class="aboutText" data-aos="fade-up" data-aos-duration="1000">

<h1 style="margin: 20px;">

Our Patients Are at Centre

<span style="color: #2f8be0; font-size: 3vw">of Every We Do</span>

</h1>

```
<div class="image-container">
```

```
  </img>
```

```
</div>
```

```
</div>
```

```
<div class="aboutList" data-aos="fade-left" data-aos-duration="1000">
```

```
<ol>
```

```
<li>
```

```
  <span>01</span>
```

```
  <p>99.8% accurate result.</p>
```

```
</li>
```

```
<li>
```

```
  <span>02</span>
```

```
  <p>No need to go hospital.</p>
```

```
</li>
```

```
<li>
```

```
  <span>03</span>
```

```
  <p>No need to login</p>
```

```
</li>
```

```
<li>
```

```
  <span>04</span>
```

```
  <p>24/7 Support.</p>
```

```
</li>
```

```
</ol>
```

```
</div>
```

```
</div>
```

```

<!--Info Section-->
<div class="infoSection">
  <div class="infoHeader" data-aos="fade-up" data-aos-duration="1000">
    <h1>
      We Analyse Your Health states <br /><span style="color: #e0501b">In
Order to Top Service.</span>
    </h1>
  </div>
  <div class="infoCards">
    <div class="card one" data-aos="fade-up" data-aos-duration="1000">
      
      <div class="cardbgone"></div>
      <div class="cardContent">
        <h2>Health State</h2>
        <p>
          Easy to know Health state
        </p>
        <a href="/">
          <div class="cardBtn">
            
          </div>
        </a>
      </div>
    </div>
    <div class="card two" data-aos="fade-up" data-aos-duration="1300">

```

```

```

```
<div class="cardbgtwo"></div>
```

```
<div class="cardContent">
```

```
<h2>User Friendly</h2>
```

```
<p>
```

```
Easy for people to use, prediction
```

```
</p>
```

```
<a href="/">
```

```
<div class="cardBtn">
```

```

```

```
</div>
```

```
</a>
```

```
</div>
```

```
</div>
```

```
<div class="card three" data-aos="fade-up" data-aos-duration="1600">
```

```

```

```
<div class="cardbgthree"></div>
```

```
<div class="cardContent">
```

```
<h2>Classification of Arrhythmia</h2>
```

```
<p>
```

```
Prediction Classification of Arrhythmia
```

```
</p>
```

```
<a href="/upload">
```

```

        <div class="cardBtn">
            
        </div>
    </a>
</div>
</div>
</div>
</div>
</div>

<!--Banner And Footer-->
<div class="banner">
    <div class="bannerText" data-aos="fade-right" data-aos-
duration="1000">
        <h1>
            Download the LifeCare App Today <br /><span style="font-size: 1.6vw;
font-weight: normal"
            class="bannerInnerText">Stay Updated and get all your medical needs
taken care of!</span>
        </h1>
        <a href="/"></a>
        <a href="/"></a>
    </div>
    <div class="bannerImg" data-aos="fade-up" data-aos-duration="1000">
        
    </div>
</div>

```

```

<div class="footer">

  <h1>LifeCare</h1>

  <div class="footerlinks">

    <a href="/home" class="mainLink">Home</a>

    <a href="/info">Info</a>

    <a href="/about">About Us</a>

    <a href="/contact">Contact Us</a>

  </div>

</div>

</div>

</div>

<script src="https://cdnjs.cloudflare.com/ajax/libs/aos/2.3.1/aos.js"></script>

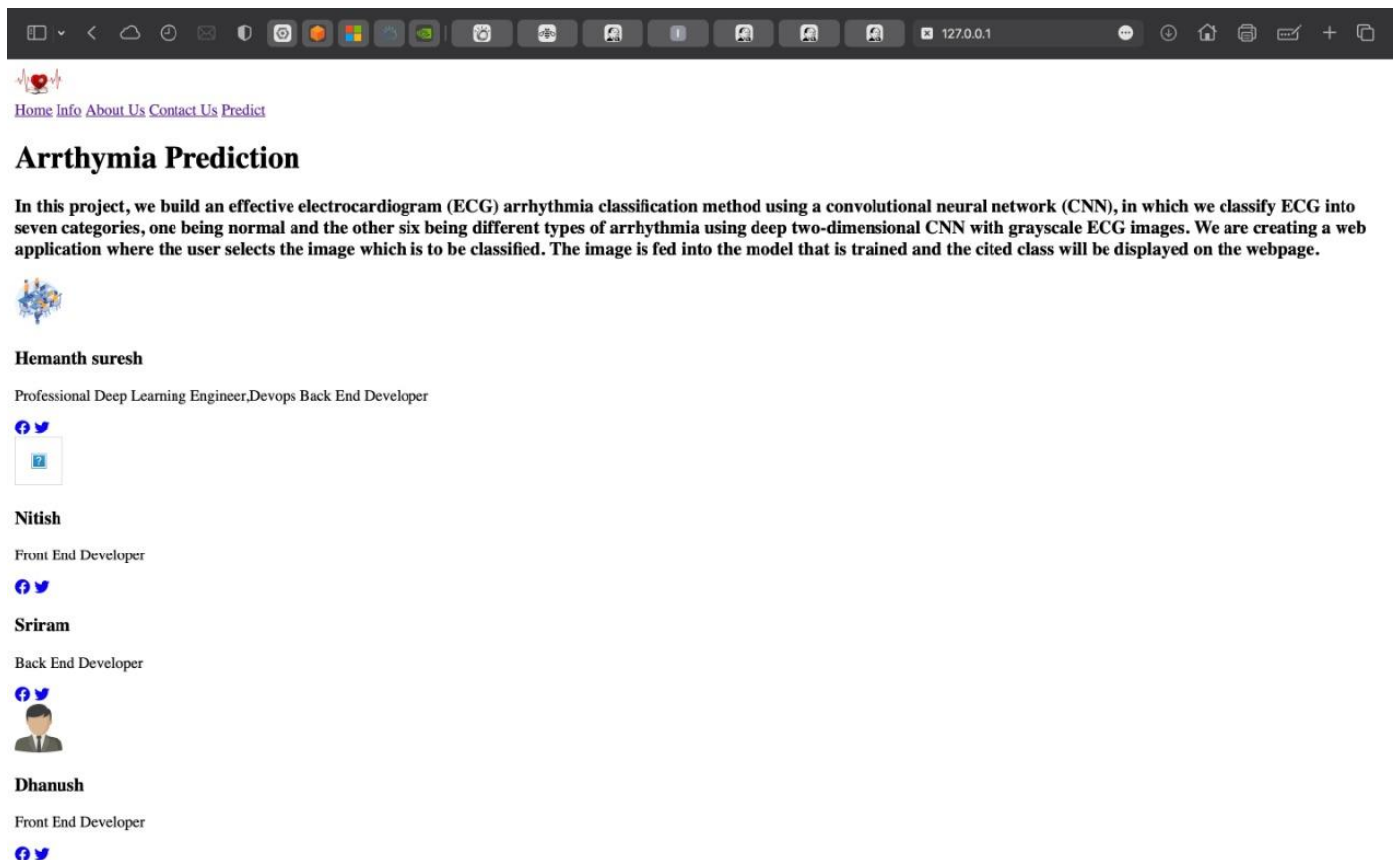
<script>

  AOS.init();

</script>

```

## HOME PAGE (SCREEN SHOT):





## HTML CODE FOR INFO PAGE:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8" />
```

```
  <meta http-equiv="X-UA-Compatible" content="IE=edge" />
```

```
  <meta    name="viewport"    content="width=device-width,    initial-  
scale=1.0" />
```

```
  <title>Life Care - About Classification of Arrhythmia</title>
```

```
  <link      rel="shortcut      icon"      href="{ {url_for('static',  
filename='images/fevicon.png' )} }" type="image/x-icon">
```

```
  <link                                          rel="stylesheet"  
href="https://cdnjs.cloudflare.com/ajax/libs/aos/2.3.1/aos.css" />
```

```
<link
href="https://fonts.googleapis.com/css2?family=Playfair+Display:wght@
600&display=swap" rel="stylesheet" />

<link rel="stylesheet" href="{{url_for('static', filename='css/style.css'
)}}" />

<script          src="https://kit.fontawesome.com/64d58efce2.js"
crossorigin="anonymous">

</script>

<style>

.banner {
    margin: 60px;
    width: auto;
    height: 300px;
    /* Setup */
    background-color: #fff;
    box-shadow: rgba(0, 0, 0, 0.15) 2.4px 2.4px 3.2px;
    display: flex;
    flex-direction: row;
    padding: 50px;
}

.bannerText h1 {
    font-size: 3vw;
    color: #007bff;
    font-weight: 600;
}
```

```
.bannerText p {  
    text-indent: 50px;  
    color: #777777;  
    font-size: 1.2vw;  
    font-weight: normal  
}
```

```
.bannerText img {  
    width: 10vw;  
    margin-right: 20px;  
}
```

```
.bannerImg img {  
    margin-left: 90px;  
    width: 350px;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="wrapper">
```

```
<!--Navigation Bar-->
```

```
<div class="nav">
```

```
<div class="logo">
```

```
    <a href="/"></a>
```

```
</div>
```

```
<div class="links">
  <a href="/home">Home</a>
  <a href="/info" class="mainLink">info</a>
  <a href="/about">About Us</a>
  <a href="/contact">Contact Us</a>
  <a href="/upload" class="btn1">Predict</a>
</div>
</div>
<!--Landing Page-->
<div class="landing">
  <div class="landingText" data-aos="fade-up" data-aos-
duration="1000">
    <h1>
      Classification of Arrhythmia
    <span style="color: #e0501b; font-size:
4vw">Prediction</span>
    </h1>
    <h3>
      According to the World Health Organization (WHO),
cardiovascular diseases (CVDs) are the number one
cause of death
today. Over 17.7 million people died from CVDs in the year
2017 all over the world which is about
31% of all deaths, and
over 75% of these deaths occur in low and middle-income
countries. Arrhythmia is a representative
type of CVD that
```

refers to any irregular change from the normal heart rhythms.  
There are several types of arrhythmia  
including atrial  
fibrillation, premature contraction, ventricular fibrillation,  
and tachycardia. Although a single  
arrhythmia heartbeat  
may not have a serious impact on life, continuous arrhythmia  
beats can result in fatal  
circumstances.

</h3>

</div>

<div class="landingImage" data-aos="fade-down" data-aos-  
duration="2000">



</div>

</div>

<div class="banner">

<div class="bannerText" data-aos="fade-right" data-aos-  
duration="1000">

<h1>

Left Bundle Branch

</h1>

<p>A delay blockage of electrical impulses

to the left of the heart. Left bundle brach block sometimes  
makes it harder for the heart to pump  
blood efficiently through the circulatory

system.</p>

<p>Most people don't have symptoms. If  
symptoms occur, they include fainting or  
a slow heart rate.</p>

<p>If there's an underlying condition, such  
as heart disease, that condition needs  
treatment. In patients with heart failure,  
a pacemaker can also relieve symptoms as  
well as prevent death.</p>

</div>

<div class="bannerImg" data-aos="fade-up" data-aos-  
duration="1000">



</div>

</div>

<div class="banner">

<div class="bannerText" data-aos="fade-right" data-aos-  
duration="1000">

<h1>

Normal

</h1>

<p>Note that the heart is beating  
in a regular sinus rhythm  
between 60-100 beats per  
minute (specifically 82 bpm).</p>

<p>All the important intervals  
on this recording are within

normal ranges.</p>

<p>The normal ECG  
patterns seen in children  
differ considerably from those  
in adults.</p>

</div>

<div class="bannerImg" data-aos="fade-up" data-aos-  
duration="1000">



</div>

</div>

<div class="banner">

<div class="bannerText" data-aos="fade-right" data-aos-  
duration="1000">

<h1>

Premature Atrial Contraction

</h1>

<p>usually, premature artial contraction have  
no clear cause and no health risks. In most  
cases, premature artrial contractions aren't a  
sign of heart disease and just happen  
naturally.</p>

<p>But some people who have PACs turn out to  
have related heart conditions, such as  
Cardiomyopathy (a weakend heart muscle)

Caronary heart disease (fatty deposits in you blood  
vessels)</p>

</div>

<div class="bannerImg" data-aos="fade-up" data-aos-duration="1000">



</div>

</div>

<div class="banner">

<div class="bannerText" data-aos="fade-right" data-aos-duration="1000">

<h1>

Premature Ventricular Contractions

</h1>

<p>Extra, abnormal heartbeats that begin in one of the Heart's two lower chambers.</p>

<p>Premature ventricular contractions (PVCs) occur in most people at some point. Causes may include certain medication, alcohol, some illegal drugs, caffeine, tobacco, exercise or anxiety.</p>

<p>

PVCs often cause no symptoms. When symptoms do occur, they feel like a flip-flop or skipped-beat sensation in the chest.

</p>

<p>Most people with isolated PVCs and an otherwise normal heart don't need treatment. PVCs occurring continuously for more than 30 seconds is a potentially serious cardiac condition known as



ventricular tachycardia.</p>

</div>

<div class="bannerImg" data-aos="fade-up" data-aos-duration="1000">



</div>

</div>

<div class="banner">

<div class="bannerText" data-aos="fade-right" data-aos-duration="1000">

<h1>

Right Bundle Branch

</h1>

<p>Right bundle branch block is associated with structural changes from stretch or ischemia to the myocardium. It can also occur idiopathically from certain common cardiac procedures, such as right heart catheterization.</p>

<p>Although there is no significant association with cardiovascular risk factors, the presence of a right bundle branch block is a predictor of mortality in myocardial infarction, heart failure, and certain heart blocks.</p>

<p>In asymptomatic patients, isolated right bundle branch block typically does not need further evaluation.</p>

</div>

<div class="bannerImg" data-aos="fade-up" data-aos-duration="1000">



</div>

</div>

<div class="banner">

<div class="bannerText" data-aos="fade-right" data-aos-duration="1000">

<h1>

Ventricular Fibrillation

</h1>

<p>A life-threatening heart rhythm that results in a rapid, inadequate heartbeat.</p>

<p>Ventricular fibrillation (VF) is a rapid, Life-threatening heart rhythm starting in the bottom chambers of the heart. It can be triggered by a heart attack.</p>

<p>Because the heart doesn't pump adequately during ventricular fibrillation, sustained VF can cause low blood pressure, loss of consciousness or death.</p>

<p>Emergency treatment includes immediate defibrillation with an automated external defibrillator (AED) and cardiopulmonary resuscitation (CPR). Long-term therapy includes implantable defibrillators and medications to prevent recurrence.</p>

```
</div>

<div class="bannerImg" data-aos="fade-up" data-aos-
duration="1000">

</div>

</div>

<div class="footer">

    <h1>LifeCare</h1>

    <div class="footerlinks">

        <a href="/home">Home</a>

        <a href="/info" class="mainLink">Info</a>

        <a href="/about">About Us</a>

        <a href="/conduct">Contact Us</a>

    </div>

</div>

</div>

</div>

<script
src="https://cdnjs.cloudflare.com/ajax/libs/aos/2.3.1/aos.js"></script>

<script>

    AOS.init();

</script>
```

## HTML CODE FOR ABOUT PAGE:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<link rel="shortcut icon" href="{{url_for('static', filename='images/fevicon.png'
)}} " type="image/x-icon">
```

```
<title>Life Care - About Us</title>
```

```
<link rel="stylesheet" href="{{url_for('static', filename='css/about.css')}}">
```

```
<link rel="stylesheet" href="{{url_for('static', filename='css/style.css')}}">
```

```
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/aos/2.3.1/aos.css" />
```

```
<link
href="https://fonts.googleapis.com/css2?family=Playfair+Display:wght@600&display=swap" rel="stylesheet" />

<link                href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.10.0/css/all.min.css" rel="stylesheet">

</head>

<style>

.footer {

    margin-bottom: 20px;

}

h1 {

    margin: 21.44px 0px;

}

</style>

<body>

<div class="wrapper">

    <!--Navigation Bar-->

    <div class="nav">

        <div class="logo">

            <a href="/"></a>

        </div>

        <div class="links">

            <a href="/">Home</a>

            <a href="/info">Info</a>
```

[About Us](/about)

[Contact Us](/contact)

[Predict](/upload)

We are a team of

Arrhythmia  
Prediction

In this project, we build an effective electrocardiogram (ECG) arrhythmia classification method

using a convolutional

neural network (CNN), in which we classify ECG into seven categories, one being normal and the other

six being different

types of arrhythmia using deep two-dimensional CNN with grayscale ECG images. We are creating a web

application where

the user selects the image which is to be classified. The image is fed into the model that is

trained and the cited

class will be displayed on the webpage.

```
</div>

<div class="landingImage" data-aos="fade-down" data-aos-
duration="2000">

</div>

</div>

<div class="main">

    <div class="profile-card">

        <div class="img">

        </div>

        <div class="caption">

            <h3>Muthamizhan Rio</h3>

            <p>Professional Deep Learning Engineer, Back End Developer</p>

            <div class="social-links">

                <a href="#"><i class="fab fa-facebook"></i></a>

                <a href="#"><i class="fab fa-instagram"></i></a>

                <a href="#"><i class="fab fa-twitter"></i></a>

            </div>

        </div>

    </div>

</div>

<div class="profile-card">

    <div class="img">

    </div>

    <div class="caption">
```

<h3>Vignesh </h3>

<p>Full Stack Developer, Web Designer, Deep Learning Engineer</p>

<div class="social-links">

<a href="#"><i class="fab fa-facebook"></i></a>

<a href="https://www.instagram.com/the\_.\_.champ/"><i class="fab fa-instagram"></i></a>

<a href="#"><i class="fab fa-twitter"></i></a>

</div>

</div>

</div>

<div class="profile-card">

<div class="img">



</div>

<div class="caption">

<h3>Vetriselvan</h3>

<p>Back End Developer</p>

<div class="social-links">

<a href="#"><i class="fab fa-facebook"></i></a>

<a href="#"><i class="fab fa-instagram"></i></a>

<a href="#"><i class="fab fa-twitter"></i></a>

</div>

</div>

</div>

<div class="profile-card">

<div class="img">





</div>

<div class="caption">

<h3>Bharathidasan</h3>

<p>Front End Developer</p>

<div class="social-links">

<a href="#"><i class="fab fa-facebook"></i></a>

<a href="#"><i class="fab fa-instagram"></i></a>

<a href="#"><i class="fab fa-twitter"></i></a>

</div>

</div>

</div>

</div>

<div class="footer">

<h1>LifeCare</h1>

<div class="footerlinks">

<a href="/home">Home</a>

<a href="/info">Info</a>

<a href="/about">About Us</a>

<a href="/contact">Contact Us</a>

</div>

</div>

</div>

</div>

<script src="https://cdnjs.cloudflare.com/ajax/libs/aos/2.3.1/aos.js"></script>

<script>

```
AOS.init();  
</script>
```

## HTML CODE FOR CONTACT PAGEE

```
<!DOCTYPE html>  
  
<html lang="en">  
  
<head>  
  
  <meta charset="UTF-8">  
  
  <meta http-equiv="X-UA-Compatible" content="IE=edge">  
  
  <meta name="viewport" content="width=device-width, initial-  
scale=1.0">  
  
  <link rel="shortcut icon" href="{ {url_for('static',  
filename='images/fevicon.png' )} }" type="image/x-icon">  
  
  <link rel="stylesheet"  
href="https://cdnjs.cloudflare.com/ajax/libs/aos/2.3.1/aos.css" />  
  
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-  
awesome/5.15.3/css/all.min.css" />  
  
  <link  
href="https://fonts.googleapis.com/css2?family=Playfair+Display:wght@  
600&display=swap" rel="stylesheet" />  
  
  <link rel="stylesheet" href="{ {url_for('static',  
filename='css/contact.css' )} }" />  
  
  <link rel="stylesheet" href="{ {url_for('static', filename='css/style.css'  
)} }" />  
  
  <title>Life Care - Contact US</title>  
  
</head>  
<body>  
  
  <div class="wrapper">
```

<div class="nav">

```

<div class="logo">
    <a href="/">
        
    </a>
</div>

<div class="links">
    <a href="/home" class="mainLink">Home</a>
    <a href="/info">Info</a>
    <a href="/about">About Us</a>
    <a href="/contact">Contact Us</a>
    <a href="/upload" class="btn1">Predict</a>
</div>

</div>

<div class="container" data-aos="fade-down" data-aos-
duration="1000">
    <div class="image" data-aos="fade-right" data-aos-
duration="6000">
        
    </div>
    <div class="form-area">
        <h2>Contact US</h2>
        <form action="">
            <input type="text" placeholder="Full Name">
            <input type="email" placeholder="Email">
            <input type="text" placeholder="Subject">
            <textarea cols="30" rows="3" placeholder="Your
Message"></textarea>

```

```

        <button type="submit">Send Message</button>

    </form>

</div>

</div>

</div>

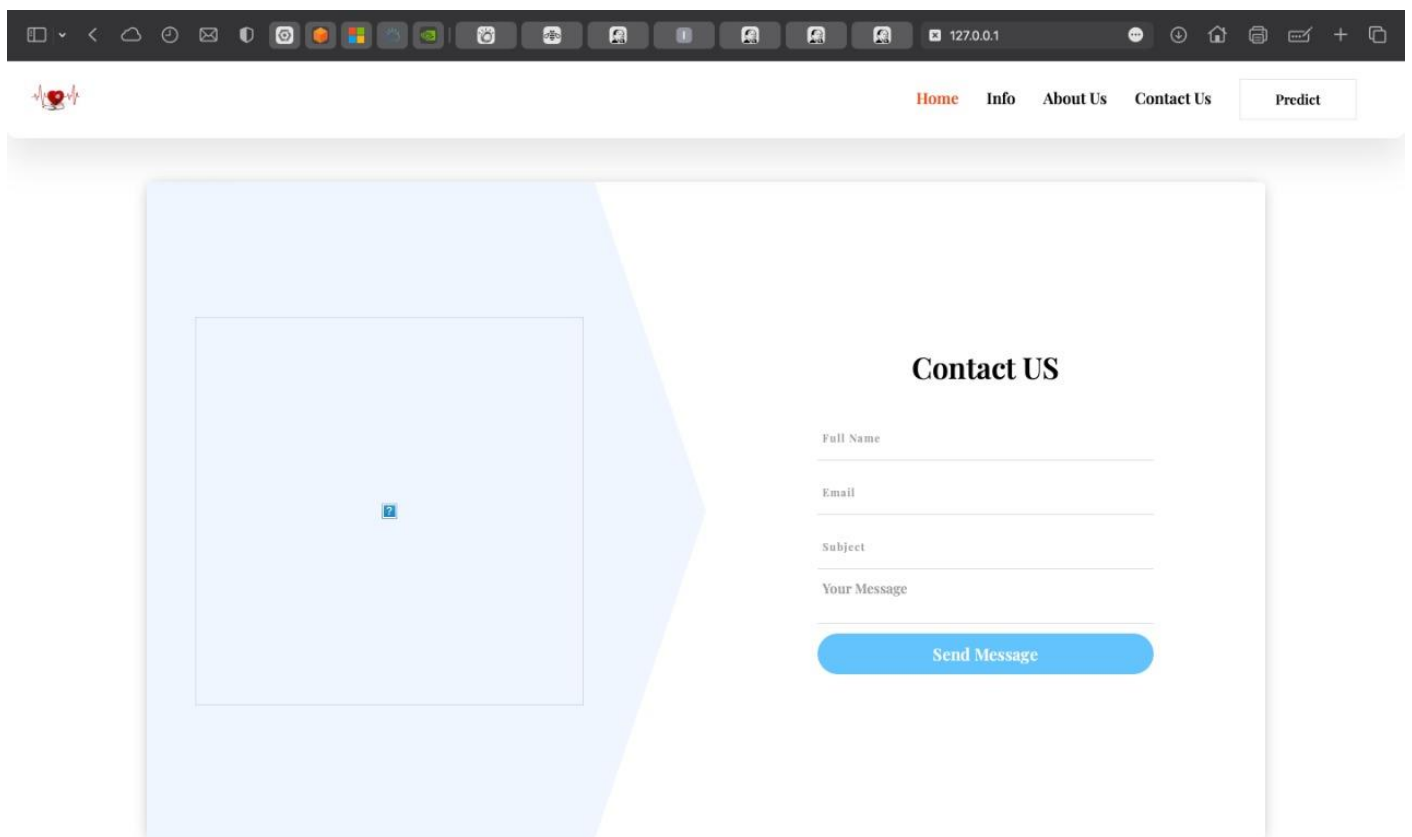
<script
src="https://cdnjs.cloudflare.com/ajax/libs/aos/2.3.1/aos.js"></script>

<script>
    AOS.init();

</script>

```

## CONTACT PAGE (SCREEN SHOT):



## HTML CODE FOR PREDICT PAGE:

```
{% extends "predict_base.html" %} {% block content %}
```

```
<center>
```

<h2 style="font-size: 40px;">

## ECG Arrhythmia

Classification

</h2>

</center>

<div>

<form id="upload-file" method="post" enctype="multipart/form-data">

<center> <label for="imageUpload" class="upload-label">

Choose...

</label>

<input type="file" name="file" id="imageUpload" accept=".png, .jpg, .jpeg">

</center>

</form>

<center>

<div class="image-section" style="display:none;">

<div class="img-preview">

<div id="imagePreview">

</div>

</div>

</div>

</center>

</div>

<center>

<div class="btn3" id="btn-predict"

style="padding: 8px 34px; width: 120px; margin-top: 30px; padding: 14px

20px 12px 20px; background-color: #007bff; border-radius: 45px; text-align: center; color: #fff; cursor: pointer;">

Predict</div>

<div class="loader" style="display:none;"></div>

</center>

<h3 style="color:Black" id="result">

<span> </span>

</h3>

</div>

</div>



## HTML CODE FOR PREDICT\_BASE PAGE:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8" />

  <meta http-equiv="X-UA-Compatible" content="IE=edge" />

  <meta name="viewport" content="width=device-width, initial-
scale=1.0" />

  <title>Life Care - Heart Prediction Online</title>

  <link rel="shortcut icon" href="{ {url_for('static',
filename='images/fevicon.png' )} }" type="image/x-icon">

  <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/aos/2.3.1/aos.css" />

  <link
href="https://fonts.googleapis.com/css2?family=Playfair+Display:wght@
600&display=swap" rel="stylesheet" />

  <script
src="https://cdn.bootcss.com/popper.js/1.12.9/umd/popper.min.js"></scri
pt>

  <script
src="https://cdn.bootcss.com/jquery/3.3.1/jquery.min.js"></script>

  <script
src="https://cdn.bootcss.com/bootstrap/4.0.0/js/bootstrap.min.js"></script
>

  <link href="{ { url_for('static', filename='css/main.css') } }"
rel="stylesheet">
```

```
<link rel="stylesheet" href="{{url_for('static', filename='css/style.css'
)}}"/>

<script src="https://kit.fontawesome.com/64d58efce2.js"
crossorigin="anonymous">

</script>

</head>
```

```
<body>

<div class="wrapper">

    <!--Navigation Bar-->

    <div class="nav">

        <div class="logo">

            <a href="/">

            </a>

        </div>

        <div class="links">

            <a href="/">Home</a>

            <a href="/info">Info</a>

            <a href="/about">About Us</a>

            <a href="/contact">Contact Us</a>

            <a href="/upload" class="btn1">Predict</a>

        </div>

    </div>

    <!--Landing Page-->

    <div class="landing">

        <div class="landingText" data-aos="fade-up" data-aos-
```

duration="10000">

<h1>

## Classification of Arrhythmia

<span style="color: #e0501b; font-size: 4vw">Prediction</span>

</h1>

<h3>

According to the World Health Organization (WHO), cardiovascular diseases (CVDs) are the number one cause of death today. Over 17.7 million people died from CVDs in the year 2017 all over the world which...

</h3>

<div class="btn2"><a href="/info">Read more</a>

</div>

</div>

<div class="landingImage" data-aos="fade-down" data-aos-duration="2000">



</div>

</div>

<div class="about">

<div class="aboutText" data-aos="fade-up" data-aos-duration="1000">

```
{% block content %}{% endblock %}
```

```
</div>
```

```
</div>
```

```
<div class="footer">
```

```
<h1>LifeCare</h1>
```

```
<div class="footerlinks">
```

```
<a href="/home">Home</a>
```

```
<a href="/info">Info</a>
```

```
<a href="/about">About Us</a>
```

```
<a href="/contact">Contact Us</a>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<script
```

```
src="https://cdnjs.cloudflare.com/ajax/libs/aos/2.3.1/aos.js"></script>
```

```
<script>
```

```
AOS.init();
```

```
</script>
```

```
</body>
```

```
<footer>
```

```
<script src="{{ url_for('static', filename='js/main.js') }}"
type="text/javascript"></script>
```

