# **Application Building**

#### **CREATE HTML FILES**

Date	11 Nov 2022
TeamID	PNT2022TMID12347
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:**

```
k rel="stylesheet" href="{{url_for('static', filename='css/style.css')}}" />
                 <script src="https://kit.fontawesome.com/64d58efce2.js"</pre>
crossorigin="anonymous">
</script>
</head>
<body>
<div class="wrapper">
<!--Navigation Bar-->
<div class="nav">
<div class="logo">
<a href="/">
<img src="static\images\logo.png" style="width:190px" />
</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-aous-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-aous-
duration="2000">
   <img src="static/images/banner_img.jpg" alt="bannerImg" style="width:</pre>
500px; height:360px" />
</div>
</div>
<!--Service Section-->
<div class="about">
<div class="aboutText" data-aos="fade-up" data-aous-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 src="/static/images/connsultPationt.png" alt="consultPationt"</pre>
style="width:400px; margin:100px 0px 0px 90px;"></img>
</div>
</div>
<div class="aboutList" data-aos="fade-left" data-aous-duration="1000">
<span>01</span>
99.8% accurate result.
<
<span>02</span>
No need to go hospital.
<
<span>03</span>
No need to login
<
<span>04</span>
24/7 Support.
</div>
</div>
```

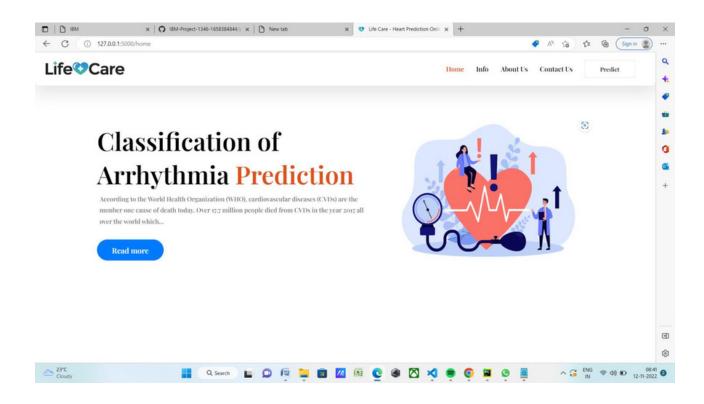
```
<!--Info Section-->
<div class="infoSection">
<div class="infoHeader" data-aos="fade-up" data-aous-duration="1000">
<h1>
   We Analyse Youe Health states <br /><span style="color: #e0501b">In
Order to Top Service.</span>
</h1>
</div>
<div class="infoCards">
<div class="card one" data-aos="fade-up" data-aous-duration="1000">
   <img src="static/images/banner_1.svg" class="cardoneImg" alt="" data-
aos="fade-up"
data-aous-duration="1100"/>
<div class="cardbgone"></div>
<div class="cardContent">
<h2>Health State</h2>
>
Easy to know Health state
<a href="/">
<div class="cardBtn">
<img src="static/images/next.png" alt="" class="cardIcon" />
</div>
</a>
</div>
</div>
<div class="card two" data-aos="fade-up" data-aous-duration="1300">
```

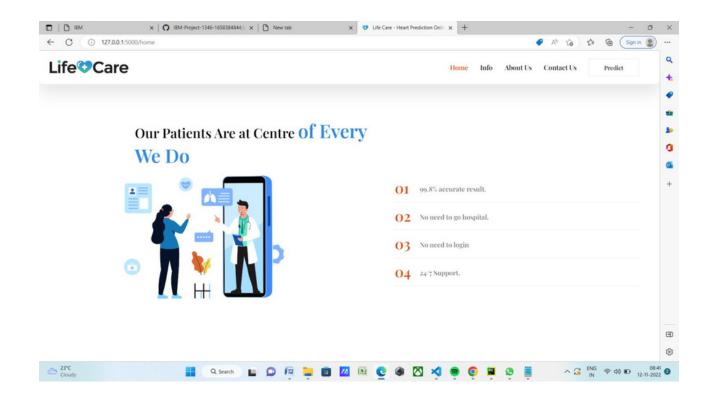
```
<img src="static/images/banner_1.svg" class="cardtwoImg" alt="" data-
aos="fade-up"
data-aous-duration="1200"/>
<div class="cardbgtwo"></div>
<div class="cardContent">
<h2>User Friendly</h2>
>
Easy for people to use, prediction
<a href="/">
<div class="cardBtn">
<img src="static/images/next.png" alt="" class="cardIcon" />
</div>
</a>
</div>
</div>
<div class="card three" data-aos="fade-up" data-aous-duration="1600">
       <img src="static/images/banner_1.svg" class="cardthreeImg" alt=""</pre>
data-aos="fade-up"
data-aous-duration="1000"/>
<div class="cardbgthree"></div>
<div class="cardContent">
<h2>Classification of Arrhythmia</h2>
>
Prediction Classification of Arrhythmia
<a href="/upload">
```

```
<div class="cardBtn">
<img src="static/images/next.png" alt="" class="cardIcon" />
</div>
</a>
</div>
</div>
</div>
</div>
<!--Banner And Footer-->
<div class="banner">
                <div class="bannerText" data-aos="fade-right" data-aous-
duration="1000">
<h1>
    font-weight: normal"
    class="bannerInnerText">Stay Updated and get all your medical needs
taken care of!</span>
</h1>
<a href="/"><img src="static/images/AndroidPNG.png" alt=""/></a>
     <a href="/"><img src="static/images/iosPNG.png" alt=""/></a>
</div>
<div class="bannerImg" data-aos="fade-up" data-aous-duration="1000">
<img src="static/images/app.png" alt=""/>
</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:

```
k
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')}</pre>
)}}"/>
          <script src="https://kit.fontawesome.com/64d58efce2.js"</pre>
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="/"><img src="static/images/logo.png" alt="Website"
Title" style="width:190px" /></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-aous-
duration="1000">
<h1>
Classification of Arrhythmia
                           <span style="color: #e0501b; font-size:</pre>
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-aousduration="2000">

<img src="static/images/banner\_img.jpg" alt="bannerImg"
style="width: 500px; height:360px" />

</div>

</div>

<div class="banner">

<h1>

Left Bundle Branch

</h1>

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.
       Most people don't have symptoms. If
symtoms occur, they inleude fainting or
a slow heart rate.
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.
</div>
          <div class="bannerImg" data-aos="fade-up"
                                                       data-aous-
duration="1000">
<img src="static/images/LBB.svg" alt=""/>
</div>
</div>
<div class="banner">
        <div class="bannerText" data-aos="fade-right"
                                                       data-aous-
duration="1000">
<h1>
Normal
</h1>
Note that the heart is beating
in a regular sinus rhythm
between 60-100 beats per
          minute (specifically 82 bpm).
All the important intervals
on this recording are within
```

```
normal ranges.
The normal ECG
patterns seen in children
differ considerably from those
in adults.
</div>
          <div class="bannerImg" data-aos="fade-up"
                                                       data-aous-
duration="1000">
<img src="static/images/normal.svg" alt=""/>
</div>
</div>
<div class="banner">
        <div class="bannerText" data-aos="fade-right"
                                                       data-aous-
duration="1000">
<h1>
Premature Atrial Contraction
</h1>
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.
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)
```

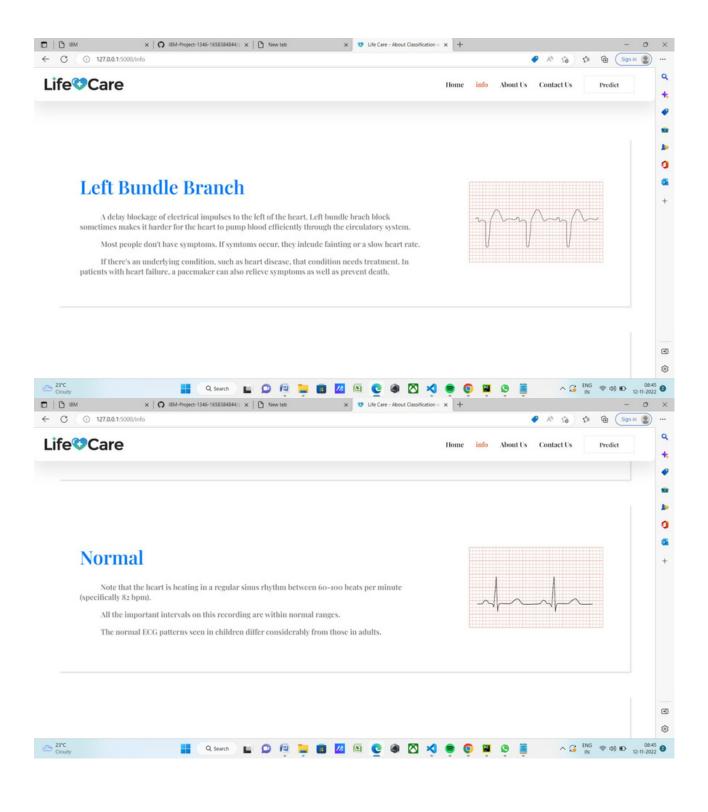
```
</div>
           <div class="bannerImg" data-aos="fade-up" data-aous-
duration="1000">
<img src="static/images/PAC.jpg" alt=""/>
</div>
</div>
<div class="banner">
         <div class="bannerText" data-aos="fade-right" data-aous-
duration="1000">
<h1>
Premature Ventricular Contractions
</h1>
Extra, abnorma heartbeats that begininone of the
Heart's two lower chambers.
       Premature ventricular contractions (PVCs) occur
in most people at some point. Causes may include certain
         medication, alcohol, some illegal drugs, caffeine,
tobacco, excercise or anxiety.
>
PVCs often cause no symtoms. When symptoms do
occur, they feel like a flip-flop or skipped-beat
sensation in the chest.
Most people with isolated PVCs and an otherwise
normal heart don't need treatment. PVCs occurring
        continuously serious cardiac than 30 seconds is a
potentially serious cardiac condition known as
```

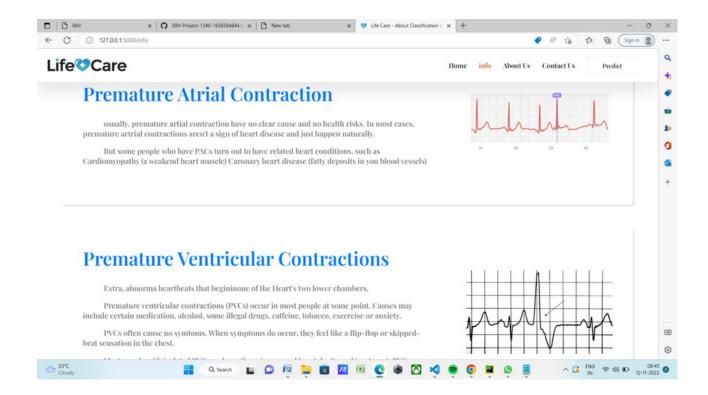
```
ventriclular tachycardia.
</div>
            <div class="bannerImg" data-aos="fade-up" data-aous-
duration="1000">
<img src="static/images/PVC.jpg" alt=""/>
</div>
</div>
<div class="banner">
         <div class="bannerText" data-aos="fade-right" data-aous-
duration="1000">
<h1>
Right Bundle Branch
</h1>
Right bundle branch block is associated with
structural changes from strech or ischemia to
the myocardium. It can also occur
iatorgenically from certain common cardiac
precedures, such as right heart catheterization.
Although there is no significant association
with cardiovascular risk factors, the presence
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.
In asymptomatic patients, isolated right bundle
brach block typically does not need further
evaluation.
```

```
</div>
            <div class="bannerImg" data-aos="fade-up" data-aous-
duration="1000">
<img src="static/images/RBB.svg" alt=""/>
</div>
</div>
<div class="banner">
          <div class="bannerText" data-aos="fade-right" data-aous-
duration="1000">
<h1>
Ventricular Fibrillation
</h1>
A life-threatening heart rhythm that results in a
rapid, inadeuate heartbeat.
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.
      >Because the heart doesn't pump adequately during
ventricular fibrillation, sustained VF can cause
low blood pressure, losso f consciousness of death.
Emergency treatment includes immediate
defibrillation with a n automated external
defibrillator (AED) and cardiopulmonary
resuscitation(CPR). Long-term therapy includes
implantable defibrillators and medcations to
prevent recurrence.
```

```
</div>
                    <div class="bannerImg" data-aos="fade-up" data-aous-
duration="1000">
<img src="static/images/VF.png" alt=""/>
</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>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/aos/2.3.1/aos.js"></script>
<script>
AOS.init();
</script>
```

## **INFO PAGE (SCREEN SHOT):**





### **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')}</pre>

)}}" type="image/x-icon">

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

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

k rel="stylesheet" href="{{url\_for('static', filename='css/style.css')}}">

k rel="stylesheet"

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

```
k
href="https://fonts.googleapis.com/css2?family=Playfair+Display:wght@600&dis
play=swap" rel="stylesheet" />
                     <link href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
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="/"><img src="static/images/logo.png" alt="Website Title"
style="width:190px"/></a>
</div>
<div class="links">
<a href="/">Home</a>
<a href="/info">Info</a>
```

```
<a href="/about" class="mainLink">About Us</a>
<a href="/contact">Contact Us</a>
<a href="/upload" class="btn1">Predict</a>
</div>
</div>
<div class="landing">
 <div class="landingText" data-aos="fade-up" data-aous-duration="1000">
<h1>
We are a team of
                   <span style="color: #e0501b; font-size: 4vw">Arrthymia
Prediction</span>
</h1>
<h3>
               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.
```

</h3>

```
</div>
              <div class="landingImage" data-aos="fade-down" data-aous-
duration="2000">
      <img src="static/images/about_us.png" alt="aboutImg" style="width:</pre>
450px; height:450px" />
</div>
</div>
<div class="main">
<div class="profile-card">
<div class="img">
<img src="static/images/profile_avatar.png">
</div>
<div class="caption">
<h3>Muthamizhan Rio</h3>
Professional Deep Learning Engineer, Back End Developer
<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">
<img src="static/images/profile_avatar.png">
</div>
<div class="caption">
```

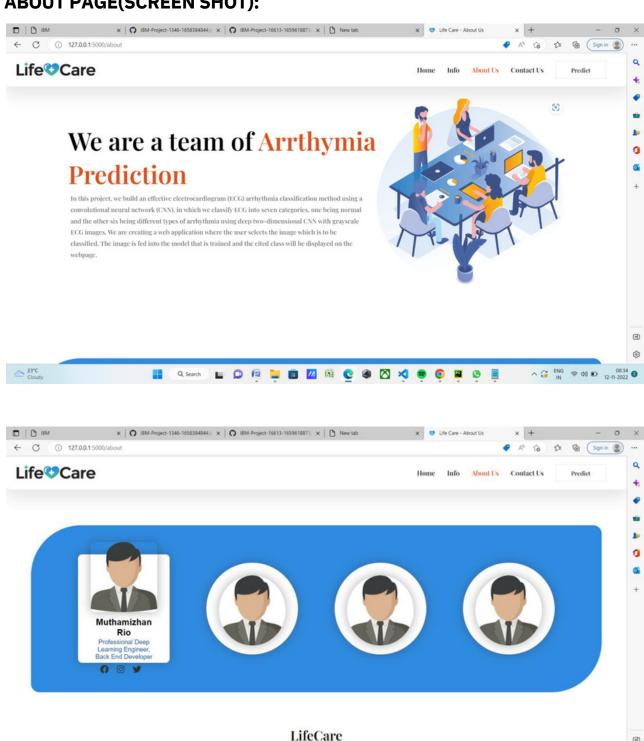
```
<h3>Vignesh </h3>
                    Full Stack Developer, Web Designer, Deep Learning
Engineer
<div class="social-links">
<a href="#"><i class="fab fa-facebook"></i></a>
                 <a href="https://www.instagram.com/the_._.champ/"><i
class="fab fa-instagram"></i></a>
<a href="#"><i class="fab fa-twitter"></i></a>
</div>
</div>
</div>
<div class="profile-card">
<div class="img">
<img src="static/images/profile_avatar.png">
</div>
<div class="caption">
<h3>Vetriselvan</h3>
Back End Developer
<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">
```

```
<img src="static/images/profile_avatar.png">
</div>
<div class="caption">
<h3>Bharathidasan</h3>
Front End Developer
<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>

## **ABOUT PAGE(SCREEN SHOT):**



## HTML CODE FOR CONTACT 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-</pre>
scale=1.0">
                      <link rel="shortcut icon" href="{{url_for('static',</pre>
filename='images/fevicon.png' )}}" type="image/x-icon">
                                                <link rel="stylesheet"</pre>
href="https://cdnjs.cloudflare.com/ajax/libs/aos/2.3.1/aos.css" />
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
awesome/5.15.3/css/all.min.css"/>
k
href="https://fonts.googleapis.com/css2?family=Playfair+Display:wght@
600&display=swap" rel="stylesheet" />
                        <link rel="stylesheet" href="{{url_for('static',</pre>
filename='css/contact.css')}}"/>
<link rel="stylesheet" href="{{url_for('static', filename='css/style.css')}</pre>
)}}"/>
<title>Life Care - Contact US</title>
</head>
<body>
<div class="wrapper">
<div class="nav">
```

```
<div class="logo">
<a href="/">
<img src="static\images\logo.png" style="width:190px" />
</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-aous-
duration="1000">
               <div class="image" data-aos="fade-right" data-aous-
duration="6000">
<img src="static/images/contact.png" alt="">
</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

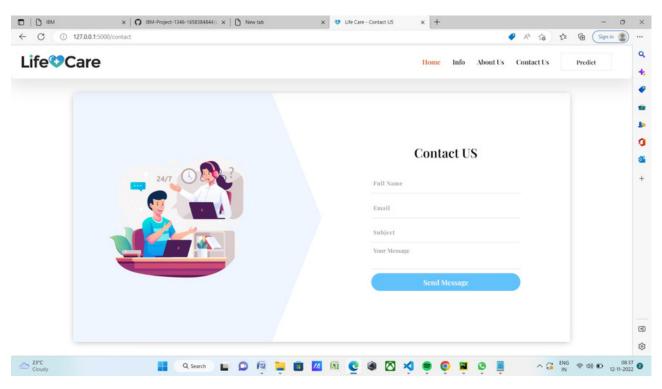
src="https://cdnjs.cloudflare.com/ajax/libs/aos/2.3.1/aos.js"></script>

<script>

AOS.init();

</script>

## **CONTACT PAGE (SCREEN SHOT):**



## **HTML CODE FOR PREDICT PAGE:**

{% extends "predict\_base.html" %} {% block content %}

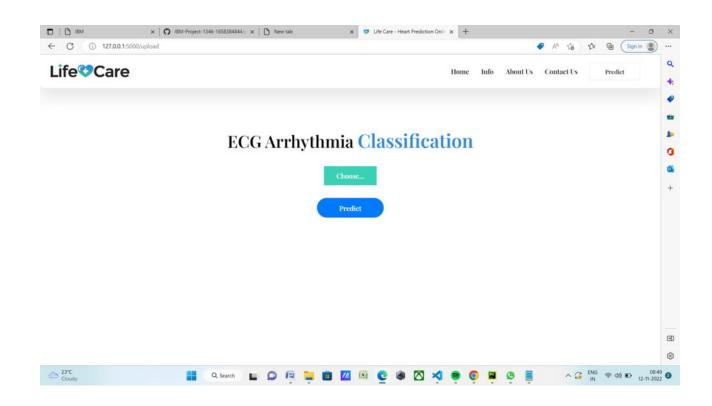
<center>

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

```
ECG Arrhythmia
<span style="color: #2f8be0; font-size: 3vw">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>
```

## PREDICT PAGE (SCREEN SHOT):



## 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',</pre>
filename='images/fevicon.png' )}}" type="image/x-icon">
                                                       k rel="stylesheet"
     href="https://cdnjs.cloudflare.com/ajax/libs/aos/2.3.1/aos.css"/>
k
    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') }}"</pre>
rel="stylesheet">
```

```
href="{{url_for('static',
        k
                     rel="stylesheet"
filename='css/style.css')}}"/>
          <script src="https://kit.fontawesome.com/64d58efce2.js"</pre>
crossorigin="anonymous">
</script>
</head>
<body>
<div class="wrapper">
<!--Navigation Bar-->
<div class="nav">
<div class="logo">
<a href="/">
<img src="static\images\logo.png" style="width:190px" />
</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-aous-
```

```
duration="10000">
<h1>
Classification of Arrhythmia
                           <span style="color: #e0501b; font-size:</pre>
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-aous-
duration="2000">
         <img src="static/images/banner_img.jpg" alt="bannerImg"
style="width: 500px; height:360px" />
</div>
</div>
<div class="about">
             <div class="aboutText" data-aos="fade-up" data-aous-
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') }}"</pre>
type="text/javascript"></script>
```

# PREDICT\_BASE PAGE (SCREEN SHOT):

