

# **Cardio Clever**

A Mini Project Report Submitted  
In partial fulfillment of the requirement for the award of the degree of

**Bachelor of Technology**  
In  
**Computer Science and Engineering - Artificial Intelligence and Machine Learning**

by

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**DEPARTMENT OF COMPUTATIONAL INTELLIGENCE**  
**MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY**  
(Affiliated to JNTU, Hyderabad)  
**ACCREDITED by AICTE-NBA**  
**Maisammaguda, Dhulapally post, Secunderabad-500014.**  
**(2022-2026)**

## DECLARATION

We hereby declare that the project entitled **"CARDIO CLEVER"** submitted to **Malla Reddy College of Engineering and Technology**, affiliated to Jawaharlal Nehru Technological University Hyderabad (JNTUH) for the award of the degree of **Bachelor of Technology in Computer Science and Engineering- Artificial Intelligence and Machine Learning** is a result of original research work done by us.

It is further declared that the project report or any part thereof has not been previously submitted to any University or Institute for the award of degree or diploma.

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# **MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**

**(AUTONOMOUS INSTITUTION - UGC, GOVT. OF INDIA)**

**Affiliated to JNTUH; Approved by AICTE, NBA-Tier 1 & NAAC with A-GRADE | ISO 9001:2015**

## **CERTIFICATE**

This is to certify that this is the bonafide record of the project titled **“CARDIO CLEVER”** submitted by **CHILUVER SRAVANTHI** (22N31A6640), **CHINNOLLA SRIRAM GOUD** (22N31A6641), **CHINTHA NISHANT** (22N31A6642) of B.Tech in the partial fulfillment of the requirements for the degree of **Bachelor of Technology in Computer Science and Engineering - Artificial Intelligence and Machine Learning**, Dept. of CI during the year 2023-2024. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.

**Mr.CH.KANNAIAH**  
(Associate Professor)  
**INTERNAL GUIDE**

**Dr. D. Sujatha**  
Professor  
**HEAD OF THE DEPARTMENT**

**EXTERNAL EXAMINER**

## ACKNOWLEDGEMENT

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## **ABSTRACT**

Heart disease remains a significant global health concern, with millions of individuals affected annually. The Cardio Clever project aims to combat this issue through the development of a comprehensive focus on predicting heart disease risks and providing personalized prevention strategies. The approach involves the integration of multiple data sources, including medical history, lifestyle factors, and genetic information, to create a detailed user profile. Advanced AI algorithms will analyze this data to identify potential risk factors and predict the likelihood of heart disease occurrence. To enhance the preventive aspect, Cardio Clever will offer tailored lifestyle recommendations based on each user's risk profile. These suggestions will cover various aspects, such as diet, exercise, stress management, and smoking cessation. Furthermore, the platform will provide users with continuous monitoring tools. By empowering individuals with personalized insights and guidance, we strive to reduce the global burden of heart disease and promote healthier, happier lives.

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# **1. INTRODUCTION**

## **1.1 Purpose:**

The purpose of this project is to develop a comprehensive cardiovascular health platform aimed at analyzing heart disease occurrence, predicting the severity of conditions, and providing personalized prevention strategies to users.

## **1.2 Background of project:**

Heart disease is a significant health concern globally, contributing to numerous fatalities each year. Early detection and prevention are crucial in mitigating its impact. This project aims to address this by leveraging technology to provide users with accessible tools and resources for assessing their heart health and reducing the risk of cardiovascular diseases.

## **1.3 Scope of project:**

The scope of this project encompasses the development of a user-friendly website that allows users to input data regarding their lifestyle habits, family history, and health status. The platform will then analyze this data to generate personalized insights into the user's heart condition and the likelihood of heart disease occurrence. Additionally, the platform will provide tailored prevention strategies and resources to help users maintain a healthy lifestyle and reduce their risk of heart disease.

## **1.4 Project Features:**

The main features of the project include:

- Heart disease analysis through user surveys
- Prediction of heart disease occurrence and severity levels
- Personalized prevention strategies based on user data
- Educational resources including articles, videos, and infographics
- Community support for users to share experiences and provide mutual encouragement
- Access to healthy recipes and exercise plans tailored to individual needs
- Practical tips and tricks for maintaining a healthy lifestyle and reducing the risk of heart disease.

## **2.SYSTEM REQUIREMENTS**

### **2.1 Hardware Requirements:**

- Modern desktop or laptop with internet connectivity
- Minimum 8GB RAM
- Minimum 128GB storage
- Any 2.2 GHz processor

### **2.2 Software requirements:**

#### **Operating System:**

- Windows 10 or later
- macOS 10.14 (Mojave) or later
- Linux distributions such as Ubuntu 18.04 or later
- iOS 13 or later (for Apple devices)
- Android 9.0 (Pie) or later (for Android devices)

#### **Web Browser:**

- Latest versions of Chrome, Firefox, Safari, or Edge
- Mobile browsers: Latest versions of Safari (iOS) and Chrome (Android)

### **2.3 Existing System:**

- 
- Above practice leads to unwanted biases, errors and excessive medical costs which affects the quality of service provided to patients. The proposed system will integrate clinical decision support with computer-based patient records (Data Sets).
- Clinical decisions are often made based on doctor's insight and experience rather than on the knowledge rich data hidden in the dataset.
- As a result it will reduce medical errors, enhance patient safety, decrease unwanted practice variation, and improve patient outcome.
- Therefore this suggestion is promising as data modeling and analysis tools, e.g., data mining, have the potential to generate a knowledge rich environment which can help to significantly improve the quality of clinical decisions. There are voluminous records in medical data domain and because



of this, it has become necessary to use modern technologies such as machine learning to help in decision support and prediction in the field of healthcare.

## 2.4 Proposed System

- *Cardio Clever: Comprehensive Heart Health Platform*
- **Overview:** Cardio Clever aims to address the gaps in existing systems by providing a fully integrated, user-friendly platform focused on heart disease analysis, risk prediction, personalized prevention, and educational resources.
- **Key Features:**
  - **Heart Disease Analysis and Prediction:**
    - **User Surveys:** Collect detailed data on lifestyle habits, diet, smoking status, and family history of heart disease.
    - **Risk Assessment:** Analyze survey data to predict the likelihood and severity of heart disease occurrence.
    - **Personalized Reports:** Generate detailed reports with insights into the user's heart health condition.
  - **Personalized Prevention Strategies:**
    - **Tailored Recommendations:** Offer customized advice on diet, exercise, and lifestyle changes based on individual risk assessments.
    - **Prevention Steps:** Provide specific actions to prevent heart disease from becoming severe.
  - **Educational Resources:**
    - **Articles:** Extensive library of educational materials on heart health, disease prevention, and treatment.
    - **Infographics:** Visual aids to help users understand complex medical information.
  - **Community Support:**
    - **Online Community:** Platform for users to connect, share experiences, and support each other in their heart health journey.
    - **Discussion Forums:** Facilitate discussions on various heart health topics.
  - **Additional Resources:**
    - **Healthy Recipes:** Collection of heart-healthy recipes to encourage better dietary habits.
    - **Exercise Plans:** Customized exercise plans tailored to users' fitness levels and heart health goals.
    - **Tips and Tricks:** Practical advice for maintaining a healthy lifestyle and reducing heart disease risk.

### 3. TECHNOLOGIES USED

#### HTML5 (Hyper Text Markup Language):

- **Purpose:** Provides the structure and content of web pages.
- **Usage:** Used to create the foundational layout of the e-commerce platform, including product pages, checkout forms, and user interfaces.

#### CSS3 (Cascading Style Sheets):

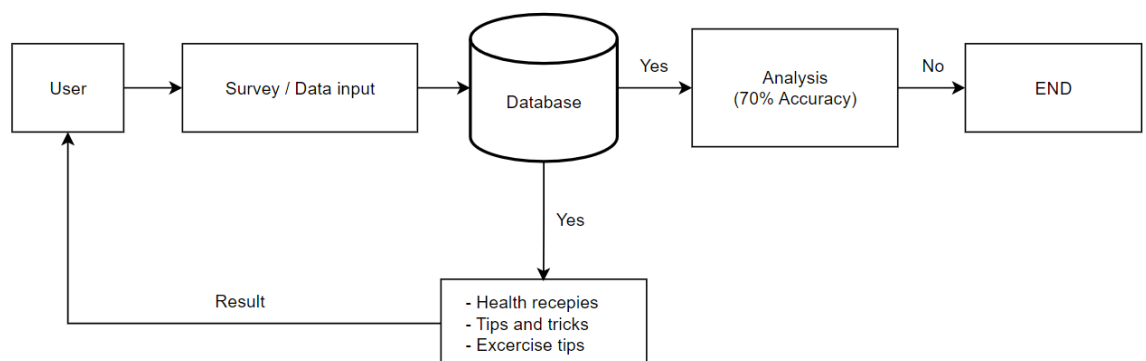
- **Purpose:** Defines the presentation and styling of web pages.
- **Usage:** Used to design visually appealing and responsive layouts, ensuring the platform looks good on all devices (desktop, tablet, mobile). Includes animations, transitions, and custom styling for brand identity.

#### JavaScript (JS):

- **Purpose:** Adds interactivity and dynamic functionality to web pages.
- **Usage:** Used for client-side scripting to enhance user experience, including features like form validation, interactive product galleries, dynamic content updates, and AJAX calls for asynchronous data fetching.

### 4. SYSTEM DESIGN

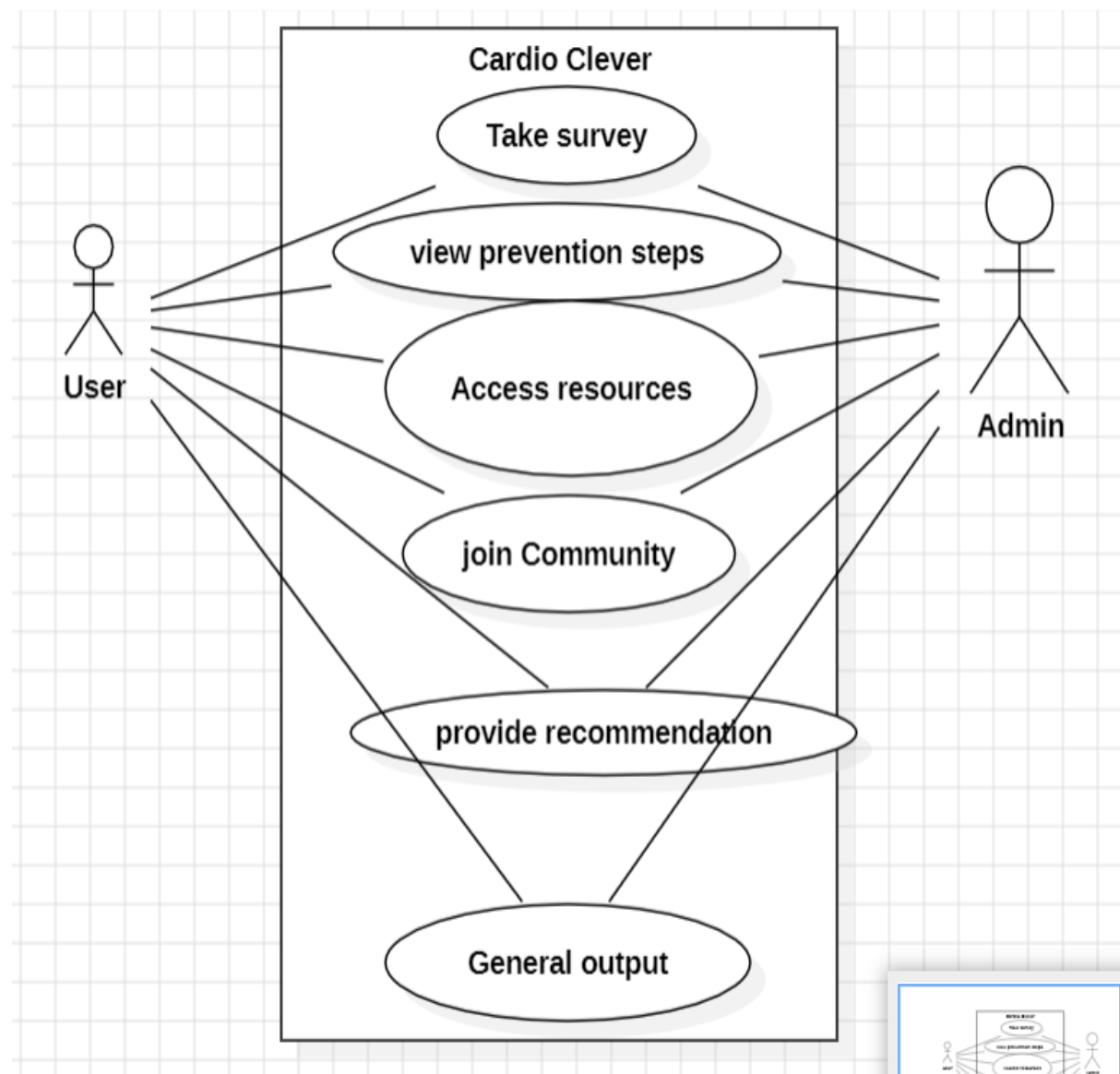
#### 4.1 System Architecture



## 4.2 UML Diagrams

### 4.2.1 Use case diagram

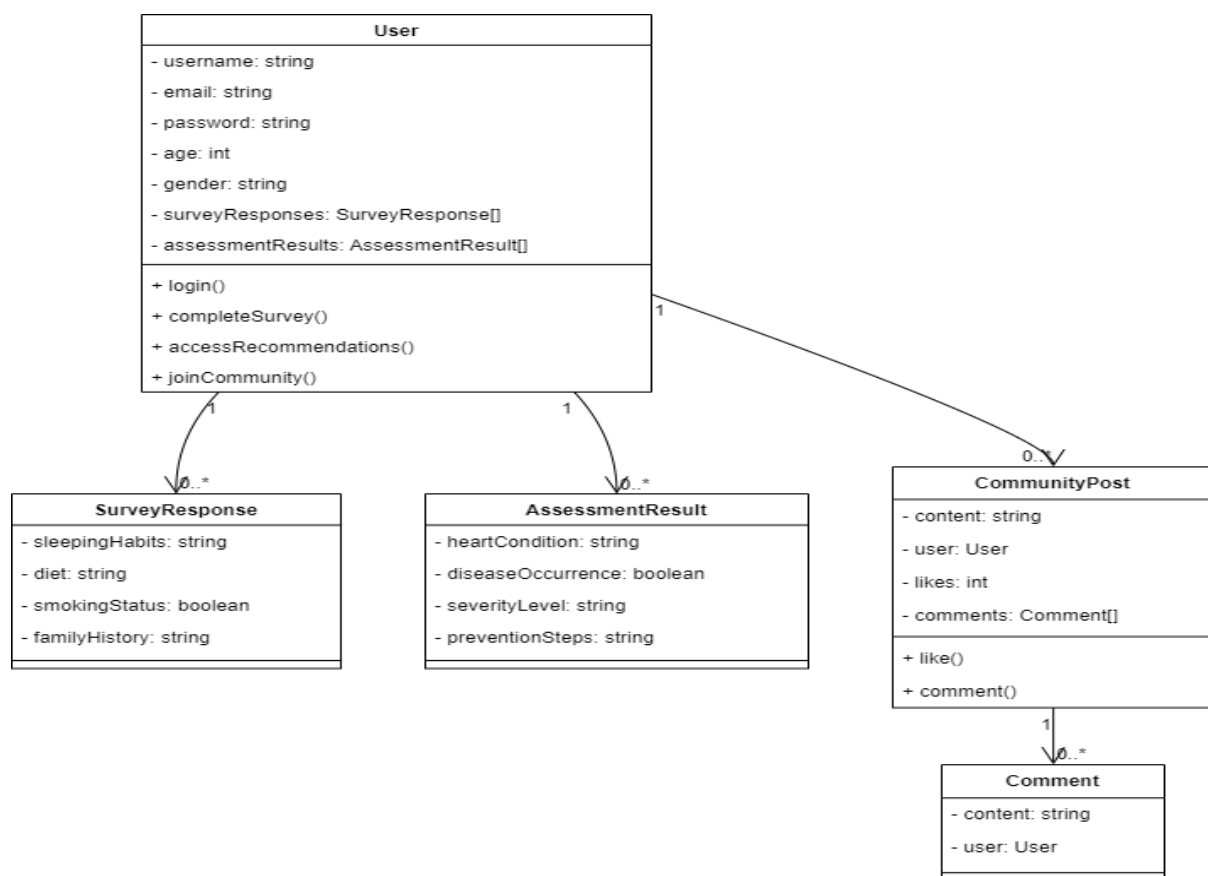
Use Case during requirement elicitation and analysis to represent the functionality of the system. Use case describes a function by the system that yields a visible result for an actor. The identification of actors and use cases result in the definitions of the boundary of the system i.e., differentiating the tasks accomplished by the system and the tasks accomplished by its environment.



## 4.2.2 Class Diagram

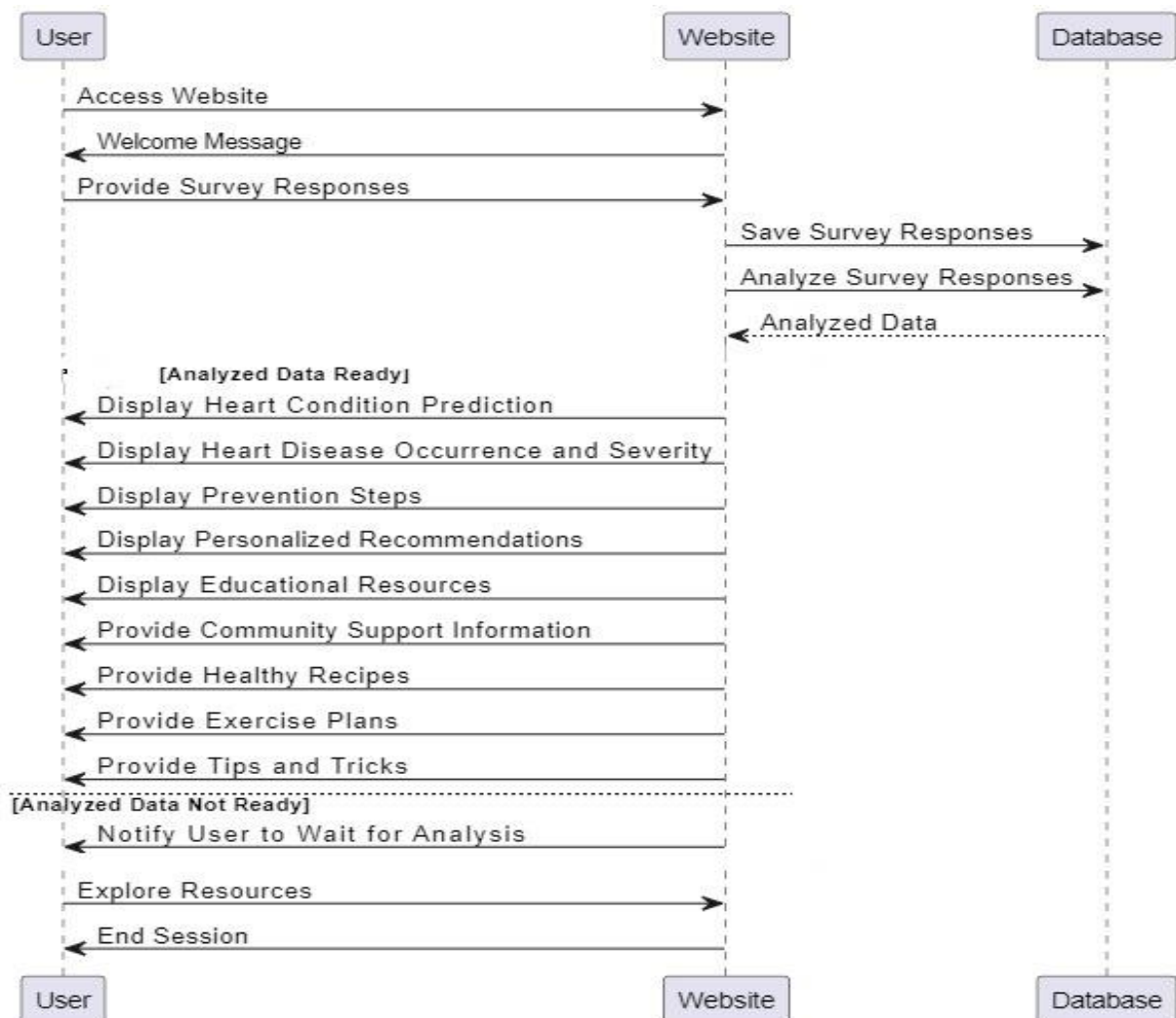
### 4.2.2 Class Diagram

Class diagrams model class structure and contents using design elements such as classes, packages and objects. Class diagram describe the different perspective when designing a system-conceptual, specification and implementation. Classes are composed of three things: name, attributes, and operations. Class diagram also display relationships such as containment, inheritance, association etc. The association relationship is most common relationship in a class diagram. The association shows the relationship between instances of classes.



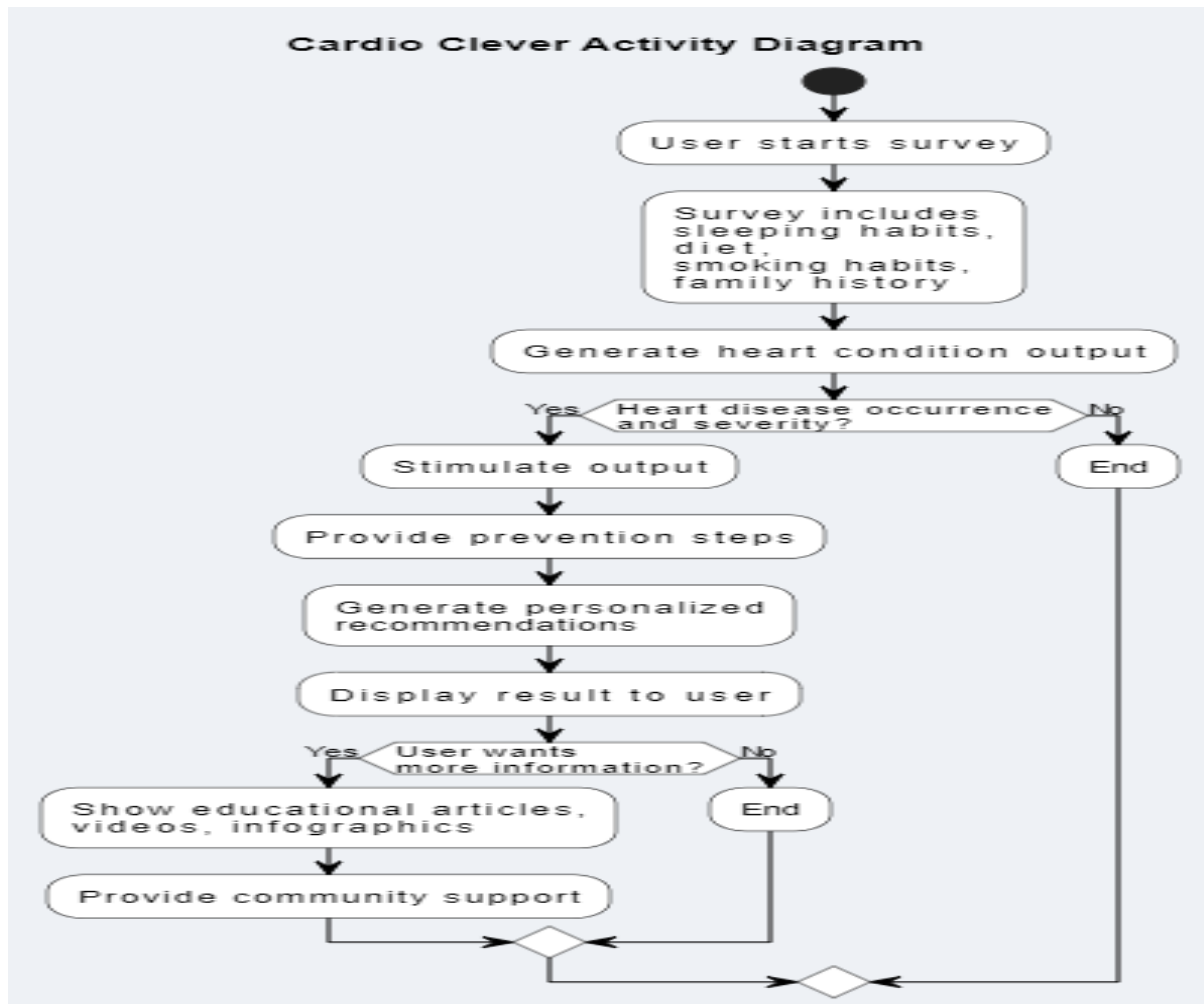
### 4.2.3 Sequence Diagram

Sequence diagram displays the time sequence of the objects participating in the interaction. This consists of the vertical dimension (time) and horizontal dimension (different objects). Objects: An object can be thought of as an entity that exists at a specified time and has a definite value, as well as a holder of identity. A sequence diagram depicts item interactions in chronological order. It illustrates the scenario's objects and classes, as well as the sequence of messages sent between them in order to carry out the scenario's functionality. In the Logical View of the system under development, sequence diagrams are often related with use case realizations. Event diagrams and event scenarios are other names for sequence diagrams. A sequence diagram depicts multiple processes or things that exist simultaneously as parallel vertical lines (lifelines), and the messages passed between them as horizontal arrows, in the order in which they occur



#### 4.3.4 Activity Diagram

The process flows in the system are captured in the activity diagram. Similar to a state diagram, an activity diagram also consists of activities, actions, transitions, initial and final states, and guard conditions.



## 5.IMPLEMENTATION

### 5.1: Code

HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta content="width=device-width, initial-scale=1" name="viewport">
  <title>CARDIO CLEVER</title>

  <link href="css/styles-merged.css" rel="stylesheet">
  <link href="css/style.min.css" rel="stylesheet">
  <link href="fonts/icomoon/style.css" rel="stylesheet">
  <link href="css/predictor.css" rel="stylesheet">
  <link href="css/back-to-top.css" rel="stylesheet">

  <!--[if lt IE 9]>
  <script src="js/vendor/html5shiv.min.js"></script>
  <script src="js/vendor/respond.min.js"></script>
  <![endif]-->
</head>
<body>
<script src="//d3js.org/d3.v3.min.js"></script>
<script src="js/back-to-top.js"></script>

<!-- Fixed navbar -->
<nav class="navbar navbar-default probootstrap-navbar">
  <div class="container">
    <div class="navbar-header">
      <button aria-controls="navbar" aria-expanded="false"
class="navbar-toggle collapsed"
      data-target="#navbar-collapse"
      data-toggle="collapse" type="button">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a class="navbar-brand" href="index.html">CARDIO CLEVER</a>
    </div>

    <div class="navbar-collapse collapse" id="navbar-collapse">
      <ul class="nav navbar-nav navbar-right">
```

```
<li class="active"><a data-nav-section="home"
href="#">Home</a></li>
  <li><a data-nav-section="features" href="#">Features</a></li>
  <li><a data-nav-section="predict" href="#">Predict</a></li>
  <li><a data-nav-section="analysis" href="#">Analysis</a></li>
  <li><a data-nav-section="contact" href="#">Contact</a></li>
</ul>
</div>
</div>
</nav>

<section class="probootstrap-hero"
prohttp://localhost/probootstrap/frame/#featuresbootstrap-slant"
  data-section="home" data-stellar-background-ratio="0.5" id="home"
  style="background-image: url(img/main_back.jpg);">
  <div class="container">
    <div class="row intro-text">
      <div class="col-md-8 col-md-offset-2 text-center">
        <h1 class="probootstrap-heading probootstrap-animate"
style="color:#E0F7FA">Predict your chance of
          having a heart disease because prevention is better than
cure!</h1>
        <div class="probootstrap-subheading center">
          <p class="probootstrap-animate"><a class="btn btn-primary"
href="#predict" role="button">Check
            Now</a><a class="btn btn-default smoothscroll"
href="#analysis" role="button">See Analysis</a>
          </p>
        </div>
      </div>
    </div>
  </div>
</section>

<button class="btn btn-primary" id="backToTopBtn" onclick="topFunction()"
title="Go to top">
  <span class="icon icon-align-top"></span>
</button>

<section class="probootstrap-section">
  <div class="container">
    <div class="row">
      <div class="col-md-4">
        <div class="probootstrap-service-item probootstrap-animate"
data-animate-effect="fadeIn">
          <span class="icon icon-phone3"></span>
          <h2>Mobile Optimize</h2>
        </div>
      </div>
    </div>
  </div>
</section>
```



```

        <p>Optimized for viewing on different platforms and
devices. Looks the same on every mobile,
        laptops, PCs and tablets. A smooth, continous
flow.</p>
        <p><a class="probootstrap-link" href="#features">Learn
More <i class="icon-chevron-right"></i></a>
        </p>
    </div>
</div>
<div class="col-md-4">
    <div class="probootstrap-service-item probootstrap-animate"
data-animate-effect="fadeIn">
        <span class="icon icon-wallet2"></span>
        <h2>Decrease Costs</h2>
        <p>Examine your heart related reports by yourself. Predict
the chance of having a heart disease free
        of cost.</p>
        <p><a class="probootstrap-link" href="#predict">Learn More
<i class="icon-chevron-right"></i></a>
        </p>
    </div>
</div>
<div class="col-md-4">
    <div class="probootstrap-service-item probootstrap-animate"
data-animate-effect="fadeIn">
        <span class="icon icon-lightbulb"></span>
        <h2>Smart Idea</h2>
        <p>Great accuracy. Accurate prediction rates. Analysis and
prediction based on large samples of
        data.</p>
        <p><a class="probootstrap-link" href="#analysis">Learn
More <i class="icon-chevron-right"></i></a>
        </p>
    </div>
</div>
</div>
</section>

<section class="probootstrap-section probootstrap-bg-light" data-
section="features" id="features">
    <div class="container">
        <div class="row text-center mb100">
            <div class="col-md-8 col-md-offset-2 probootstrap-section-
heading">
                <h2 class="mb30 text-black probootstrap-heading">Features</h2>
                <p>Loads of features. Making it easier for anyone to predict
the chance of getting heart disease. Shows

```

```

        analysis done on large data sets.</p>
    </div>
</div>
<!-- END row -->
<div class="row mb100">
</div>
<!-- END row -->
<div class="row mb100">
</div>
<!-- END row -->
<div class="row mb100">
    <div class="col-md-8 probootstrap-animate">
        <p></p>
    </div>
    <div class="col-md-4 probootstrap-section-heading">
        <h3 class="text-primary probootstrap-heading-2">Vast and
Reliable Dataset <span
            class="icon icon-database2"></span></h3>
        <p>This database contains 76 attributes, but all published
experiments refer to using a subset of 14 of
            them. In particular, the Cleveland database is the only
one that has been used by ML researchers to
            this date.</p>
        <ul class="probootstrap-list">
            <li class="probootstrap-check">Dataset available at <a
                class="probootstrap-link"
href="http://archive.ics.uci.edu/ml/datasets/Heart+Disease"
                target="_blank">UCI <span class="icon icon-
database"></span></a></li>
            <li class="probootstrap-check">Contains 76 attributes</li>
            <li class="probootstrap-check">Report on subset of 14 such
attributes</li>
        </ul>
    </div>
</div>
<!-- END row -->
<div class="row mb100">
</div>
<!-- END row -->
</div>

```

```

/*!=====

```

```
* Theme Name: Frame
* Theme URL: https://probootstrap.com/frame-free-onepage-html5-template-
using-bootstrap
* Author: ProBootstrap.com
* Author URL: https://probootstrap.com
* License: Released for free under the Creative Commons Attribution 3.0
License (probootstrap.com/license)
*/
@font-face {
  font-family: 'icomoon';
  src: url("../fonts/icomoon/fonts/icomoon.eot?1z9v6x");
  src: url("../fonts/icomoon/fonts/icomoon.eot?1z9v6x#iefix")
format("embedded-opentype"), url("../fonts/icomoon/fonts/icomoon.ttf?1z9v6x")
format("truetype"), url("../fonts/icomoon/fonts/icomoon.woff?1z9v6x")
format("woff"), url("../fonts/icomoon/fonts/icomoon.svg?1z9v6x#icomoon")
format("svg");
  font-weight: normal;
  font-style: normal;
}

html {
  overflow-x: hidden;
  font-size: 1.25em;
}

body {
  background: #ffffff;
  color: #73767c;
  line-height: 1.7;
  font-size: 16px;
  font-family: "Open Sans", Arial, sans-serif;
}

::-moz-selection {
  background: #000000;
  color: #ffffff;
}

::selection {
  background: #000000;
  color: #ffffff;
}

::-moz-selection {
  background: #000000;
  color: #ffffff;
}
```

```

h1, h2, h3, h4, h5, h6, p, ol {
  margin-bottom: 30px;
}

a {
  -webkit-transition: .3s all;
  transition: .3s all;
  color: #1a57a5;
}

a:hover, a:focus, a:active {
  color: #174b8f;
  text-decoration: none;
}

.probootstrap-navbar {
  border: none;
  -webkit-box-shadow: none;
  box-shadow: none;
  border-radius: 0px;
  margin-bottom: 0px;
  background: none;
  position: absolute;
  top: 40px;
  width: 100%;
  z-index: 200;
}

@media screen and (max-width: 768px) {
  .probootstrap-navbar {
    top: 0;
    background: white;
    -webkit-box-shadow: 0px 2px 10px 0px rgba(0, 0, 0, 0.1);
    box-shadow: 0px 2px 10px 0px rgba(0, 0, 0, 0.1);
  }
}

.probootstrap-navbar .navbar-toggle:focus,
.probootstrap-navbar .navbar-toggle:hover {
  background-color: transparent;
}

.probootstrap-navbar .navbar-toggle {
  border: none;
}

.probootstrap-navbar .navbar-toggle span.icon-bar {
  -webkit-transition: all 0.15s;
}

```

```

    transition: all 0.15s;
}

.probootstrap-navbar .navbar-toggle span:nth-child(2) {
  -webkit-transform: rotate(45deg);
  transform: rotate(45deg);
  -webkit-transform-origin: 10% 10%;
  transform-origin: 10% 10%;
}

.probootstrap-navbar .navbar-toggle span:nth-child(3) {
  opacity: 0;
}

.probootstrap-navbar .navbar-toggle span:nth-child(4) {
  -webkit-transform: rotate(-45deg);
  transform: rotate(-45deg);
  -webkit-transform-origin: 10% 90%;
  transform-origin: 10% 90%;
}

.probootstrap-navbar .navbar-toggle.collapsed span:nth-child(2),
.probootstrap-navbar .navbar-toggle.collapsed span:nth-child(4) {
  -webkit-transform: rotate(0);
  transform: rotate(0);
}

.probootstrap-navbar .navbar-toggle.collapsed span:nth-child(3) {
  opacity: 1;
}

.probootstrap-navbar .parent-nav-link-padding, .probootstrap-navbar .navbar-
brand, .probootstrap-navbar .navbar-nav > li > a {
  padding-top: 25px;
  padding-bottom: 25px;
  padding-left: 0;
  padding-right: 0;
  margin-left: 15px;
  margin-right: 15px;
}

@media screen and (max-width: 768px) {
  .probootstrap-navbar .parent-nav-link-padding, .probootstrap-navbar .navbar-
brand, .probootstrap-navbar .navbar-nav > li > a {
    padding-top: 25px !important;
    padding-bottom: 25px !important;
  }
}

```

```

.probootstrap-navbar .dropdown-header {
  color: rgba(255, 255, 255, 0.2);
  padding-left: 10px;
  text-transform: uppercase;
}

.probootstrap-navbar .dropdown > a {
  padding-right: 10px !important;
  position: relative;
  display: block;
}

@media screen and (max-width: 480px) {
  .probootstrap-navbar .dropdown > a {
    display: block;
    padding-right: 0px;
  }
}

.probootstrap-navbar .dropdown > a:before {
  font-family: 'icomoon';
  speak: none;
  font-style: normal;
  font-weight: normal;
  font-variant: normal;
  text-transform: none;
  line-height: 1;
  /* Better Font Rendering ===== */
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  position: absolute;
  top: 50%;
  right: 0;
  margin-right: -10px;
  margin-top: -11px;
  content: "\e924";
  font-size: 20px;
  color: rgba(255, 255, 255, 0.5);
  -webkit-transition: .3s all;
  transition: .3s all;
}

@media screen and (max-width: 768px) {
  .probootstrap-navbar .dropdown > a:before {
    color: rgba(0, 0, 0, 0.2);
  }
}

```

```

.probootstrap-navbar .dropdown > a:hover:before {
  -webkit-transform: rotate(180deg);
  transform: rotate(180deg);
}

.probootstrap-navbar .dropdown.open > a, .probootstrap-navbar .dropdown:hover
> a, .probootstrap-navbar .dropdown:focus > a, .probootstrap-navbar
.dropdown:active > a {
  -webkit-transition: .3s all;
  transition: .3s all;
}

.probootstrap-navbar .dropdown.open > a:before, .probootstrap-navbar
.dropdown:hover > a:before, .probootstrap-navbar .dropdown:focus > a:before,
.probootstrap-navbar .dropdown:active > a:before {
  -webkit-transform: rotate(180deg);
  transform: rotate(180deg);
}

.probootstrap-navbar .dropdown > .dropdown-menu > li a {
  padding: 10px;
  color: rgba(255, 255, 255, 0.8);
}

.probootstrap-navbar .dropdown > .dropdown-menu > li a:hover {
  border-top: none;
  background: #ffffff;
  color: #85C8DD;
}

.probootstrap-navbar .dropdown > .dropdown-menu > li.open > a, .probootstrap-
navbar .dropdown > .dropdown-menu > li:hover > a, .probootstrap-navbar
.dropdown > .dropdown-menu > li:focus > a, .probootstrap-navbar .dropdown >
.dropdown-menu > li:active > a {
  border-top: none;
  color: #85C8DD;
  background: #ffffff;
}

.probootstrap-navbar .dropdown > .dropdown-menu > li.dropdown-submenu.open >
a, .probootstrap-navbar .dropdown > .dropdown-menu > li.dropdown-submenu:hover
> a, .probootstrap-navbar .dropdown > .dropdown-menu > li.dropdown-
submenu:focus > a, .probootstrap-navbar .dropdown > .dropdown-menu >
li.dropdown-submenu:active > a {
  border-top: none;
}

```

```

.probootstrap-navbar .dropdown > .dropdown-menu > li.dropdown-submenu.open >
a:before, .probootstrap-navbar .dropdown > .dropdown-menu > li.dropdown-
submenu:hover > a:before, .probootstrap-navbar .dropdown > .dropdown-menu >
li.dropdown-submenu:focus > a:before, .probootstrap-navbar .dropdown >
.dropdown-menu > li.dropdown-submenu:active > a:before {
  color: #000000;
}

.probootstrap-navbar .dropdown > .dropdown-menu > li.active > a {
  color: #ffffff;
}

.probootstrap-navbar .navbar-right .dropdown-menu {
  right: auto;
}

.probootstrap-navbar .dropdown-menu {
  border: none;
  -webkit-box-shadow: none;
  box-shadow: none;
  background: #85C8DD;
  border-radius: 0;
  -webkit-box-shadow: 0px 0px 7px 0px rgba(0, 0, 0, 0.15);
  box-shadow: 0px 0px 7px 0px rgba(0, 0, 0, 0.15);
  min-width: 200px;
  white-space: normal;
  word-wrap: break-word;
}

.probootstrap-navbar .dropdown-menu a {
  white-space: normal;
}

@media screen and (max-width: 768px) {
  .probootstrap-navbar .dropdown-menu {
    width: 100%;
    padding: 10px 15px;
  }
  .probootstrap-navbar .dropdown-menu a {
    color: #ffffff;
  }
}

.probootstrap-navbar .navbar-brand {
  text-transform: uppercase;
  font-family: "Open Sans", Arial, sans-serif;
  color: #ffffff;
  font-size: 26px;
}

```



```

    font-weight: 700;
    padding-left: 15px;
}

.probootstrap-navbar .navbar-brand:hover {
    color: #ffffff;
}

@media screen and (max-width: 768px) {
    .probootstrap-navbar .navbar-brand {
        color: #1a57a5;
        line-height: 0;
        padding-left: 0px;
    }
}

.probootstrap-navbar .navbar-brand em {
    font-family: "Open Sans", Arial, sans-serif;
}

.probootstrap-navbar .navbar-nav > li > a {
    color: white;
    font-size: 15px;
    position: relative;
    text-transform: uppercase;
}

@media screen and (max-width: 768px) {
    .probootstrap-navbar .navbar-nav > li > a {
        padding-top: 8px !important;
        padding-bottom: 8px !important;
        color: rgba(0, 0, 0, 0.7);
    }
}

.probootstrap-navbar .navbar-nav > li > a:hover {
    color: rgba(255, 255, 255, 0.7);
}

.probootstrap-navbar .navbar-nav > li > a:hover, .probootstrap-navbar .navbar-
nav > li > a:focus, .probootstrap-navbar .navbar-nav > li > a:active {
    color: rgba(255, 255, 255, 0.7);
}

@media screen and (max-width: 768px) {
    .probootstrap-navbar .navbar-nav > li > a:hover, .probootstrap-navbar
.navbar-nav > li > a:focus, .probootstrap-navbar .navbar-nav > li > a:active {
        color: rgba(0, 0, 0, 0.7);
    }
}

```

```

    }
}

.probootstrap-navbar .navbar-nav > li.open > a:hover, .probootstrap-navbar
.navbar-nav > li.open > a:focus, .probootstrap-navbar .navbar-nav > li.open >
a {
    background: none;
}

.probootstrap-navbar .navbar-nav > li.active > a {
    background: none;
    color: #ffffff;
}

@media screen and (max-width: 768px) {
    .probootstrap-navbar .navbar-nav > li.active > a {
        color: rgba(0, 0, 0, 0.7);
    }
}

.probootstrap-navbar .navbar-nav > li.active > a:active, .probootstrap-navbar
.navbar-nav > li.active > a:focus, .probootstrap-navbar .navbar-nav >
li.active > a:hover {
    background: none;
    color: #ffffff;
}

@media screen and (max-width: 768px) {
    .probootstrap-navbar .navbar-nav > li.active > a:active, .probootstrap-
    navbar .navbar-nav > li.active > a:focus, .probootstrap-navbar .navbar-nav >
    li.active > a:hover {
        color: rgba(0, 0, 0, 0.7);
    }
}

.probootstrap-navbar .navbar-nav > li > .dropdown-menu:before {
    border: 1px solid #85C8DD;
    content: "";
    position: absolute;
    top: -20px;
    left: 40px;
    border-color: rgba(133, 200, 221, 0);
    border-bottom-color: #85C8DD;
    border-width: 10px;
    margin-left: -10px;
}

@media screen and (max-width: 768px) {

```

```

.probootstrap-navbar .navbar-nav > li > .dropdown-menu:before {
  display: none;
}
}

.probootstrap-navbar .navbar-nav .dropdown li.active > a {
  background: none;
}

.probootstrap-navbar .navbar-nav.active > a {
  color: #1a57a5 !important;
}

.probootstrap-navbar .dropdown-submenu {
  position: relative;
}

.probootstrap-navbar .dropdown-submenu .dropdown-menu {
  top: 0;
  left: 100%;
  margin-top: -1px;
}

.probootstrap-navbar .dropdown-submenu > a {
  display: block;
}

.probootstrap-navbar .dropdown-submenu > a:before {
  font-family: 'icomoon';
  speak: none;
  font-style: normal;
  font-weight: normal;
  font-variant: normal;
  text-transform: none;
  line-height: 1;
  /* Better Font Rendering ===== */
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  position: absolute;
  top: 50%;
  right: 0;
  margin-right: 10px;
  margin-top: -11px;
  content: "\e926";
  font-size: 20px;
  color: rgba(255, 255, 255, 0.5);
  -webkit-transition: .3s all;
  transition: .3s all;
}

```

```

}

@media screen and (max-width: 768px) {
  .probootstrap-navbar .dropdown-submenu > a:before {
    color: rgba(0, 0, 0, 0.2);
  }
}

.probootstrap-navbar .dropdown-submenu > a: hover:before {
  color: rgba(0, 0, 0, 0.3);
  -webkit-transform: rotate(180deg);
  transform: rotate(180deg);
}

@media screen and (max-width: 480px) {
  .probootstrap-navbar .dropdown-submenu: hover > .dropdown-menu {
    display: block;
  }
}

.probootstrap-navbar.scrolled {
  background: #ffffff;
  -webkit-box-shadow: 0px 1px 3px 0px rgba(0, 0, 0, 0.09);
  box-shadow: 0px 1px 3px 0px rgba(0, 0, 0, 0.09);
  position: fixed;
  top: 0;
  left: 0;
  right: 0;
  width: 100%;
  -webkit-transform: translateY(-100%);
  transform: translateY(-100%);
}

.probootstrap-navbar.scrolled.awake, .probootstrap-navbar.scrolled.sleep {
  -webkit-transition: .3s all ease;
  transition: .3s all ease;
}

.probootstrap-navbar.scrolled.awake {
  -webkit-transform: translateY(0%);
  transform: translateY(0%);
}

.probootstrap-navbar.scrolled.sleep {
  -webkit-transform: translateY(-100%);
  transform: translateY(-100%);
}

```

```

.probootstrap-navbar.scrolled .navbar-brand {
  top: 30px;
  color: #1a57a5;
}

.probootstrap-navbar.scrolled .dropdown > a:before {
  color: rgba(0, 0, 0, 0.4);
}

.probootstrap-navbar.scrolled .navbar-nav > li > a {
  color: rgba(0, 0, 0, 0.7);
}

.probootstrap-navbar.scrolled .navbar-nav > li > a:hover {
  color: rgba(0, 0, 0, 0.7) !important;
}

.probootstrap-navbar.scrolled .navbar-nav > li.active > a {
  color: #1a57a5 !important;
}

@media screen and (max-width: 768px) {
  .probootstrap-navbar.scrolled .navbar-nav > li.active > a {
    color: #1a57a5 !important;
  }
}

.probootstrap-hero {
  background-color: #ccc;
  background-size: cover;
  background-position: left top;
  padding: 9em 0 15em 0;
  position: relative;
  overflow: hidden;
}

@media screen and (max-width: 768px) {
  .probootstrap-hero {
    height: inherit;
    padding: 7em 0 15em 0;
  }
}

.probootstrap-hero:before {
  content: "";
  position: absolute;
  width: 100%;
  top: 0;
}

```

```
    left: 0;
    right: 0;
    bottom: 0;
    background: rgba(0, 0, 0, 0.5);
}

.probootstrap-hero .intro-text {
    position: relative;
    padding-top: 100px;
}

@media screen and (max-width: 768px) {
    .probootstrap-hero .intro-text {
        padding-top: 50px;
    }
}

.probootstrap-hero .intro-text .probootstrap-heading {
    font-size: 54px;
    font-weight: 300;
    color: #ffffff;
    margin-bottom: 40px;
    line-height: 1.3;
}

@media screen and (max-width: 768px) {
    .probootstrap-hero .intro-text .probootstrap-heading {
        font-size: 36px;
        text-align: center;
    }
}

.probootstrap-hero .intro-text .probootstrap-subheading {
    max-width: 500px;
    color: rgba(255, 255, 255, 0.9);
    font-size: 20px;
}

.probootstrap-hero .intro-text .probootstrap-subheading.center {
    margin: 0 auto;
}

@media screen and (max-width: 768px) {
    .probootstrap-hero .intro-text .probootstrap-subheading {
        max-width: 100%;
        text-align: center;
    }
}
```

```

.probootstrap-hero .intro-text .probootstrap-subheading .btn {
  padding: 20px 40px;
  border-radius: 0;
  margin-right: 10px;
  border: 2px solid #1a57a5;
}

.probootstrap-hero .intro-text .probootstrap-subheading .btn:hover {
  background: #103463;
  border-color: #103463;
}

@media screen and (max-width: 480px) {
  .probootstrap-hero .intro-text .probootstrap-subheading .btn {
    width: 100%;
    margin-right: 0;
    margin-bottom: 10px;
  }
}

.probootstrap-hero .intro-text .probootstrap-subheading .btn.btn-default {
  background: none;
  border: 2px solid rgba(255, 255, 255, 0.7);
  color: #ffffff;
}

.probootstrap-hero .intro-text .probootstrap-subheading .btn.btn-
default:hover, .probootstrap-hero .intro-text .probootstrap-subheading
.btn.btn-default:focus, .probootstrap-hero .intro-text .probootstrap-
subheading .btn.btn-default:active {
  background: rgba(255, 255, 255, 0.3);
}

.probootstrap-section {
  padding: 7em 0;
  position: relative;
}

@media screen and (max-width: 768px) {
  .probootstrap-section {
    padding: 4em 0;
  }
}

.probootstrap-section.probootstrap-bg-light {
  background: #D6E6F2;
}

```

```
.probootstrap-section.probootstrap-cta {
  background: #1a57a5;
  color: #ffffff;
  padding: 3em 0;
}

.probootstrap-section.probootstrap-cta *:last-child {
  margin-bottom: 0;
}

.probootstrap-section.probootstrap-cta .probootstrap-heading {
  color: #ffffff;
  margin-bottom: 20px;
}

.probootstrap-section.probootstrap-cta .probootstrap-sub-heading {
  color: rgba(255, 255, 255, 0.7);
}

.probootstrap-footer {
  padding: 3em 0;
  position: relative;
  background: #1a57a5;
  color: #ffffff;
}

.probootstrap-footer a {
  color: rgba(255, 255, 255, 0.4);
}

.probootstrap-footer a:hover {
  color: white;
}

.probootstrap-section-heading .probootstrap-heading {
  font-size: 50px;
  line-height: 1.45;
  position: relative;
  padding-bottom: 30px;
}

.probootstrap-section-heading .probootstrap-heading:after {
  content: "";
  position: absolute;
  bottom: 0;
  width: 70px;
  height: 2px;
}
```



```

background: #1a57a5;
left: 50%;
-webkit-transform: translateX(-50%);
transform: translateX(-50%);
}

@media screen and (max-width: 768px) {
  .probootstrap-section-heading .probootstrap-heading {
    font-size: 40px;
  }
}

.probootstrap-section-heading .probootstrap-heading-2 {
  line-height: 1.45;
  font-size: 36px;
}

@media screen and (max-width: 768px) {
  .probootstrap-section-heading .probootstrap-heading-2 {
    font-size: 24px;
  }
}

.probootstrap-shadow, .probootstrap-testimonial:hover, .probootstrap-
testimonial:focus, .probootstrap-form {
  -webkit-box-shadow: 0 20px 45px -10px rgba(0, 0, 0, 0.15);
  box-shadow: 0 20px 45px -10px rgba(0, 0, 0, 0.15);
}

.probootstrap-social > a {
  padding: 10px;
  font-size: 30px;
}

.probootstrap-pricing {
  text-align: center;
  padding: 30px;
  margin-bottom: 30px;
  border: 1px solid #ebebeb;
}

.probootstrap-pricing h2 {
  font-size: 14px;
  text-transform: uppercase;
  letter-spacing: .2em;
  color: #000000;
  margin-bottom: 0;
}

```

```
.probootstrap-pricing .probootstrap-note {
  color: #bdbdbd;
  font-style: italic;
  font-size: 14px;
}

.probootstrap-pricing .probootstrap-price strong {
  font-size: 62px;
  font-weight: 300;
  color: #1a57a5;
}

@media screen and (max-width: 768px) {
  .probootstrap-pricing .probootstrap-price strong {
    font-size: 42px;
  }
}

.probootstrap-link {
  position: relative;
}

.probootstrap-link i {
  position: relative;
  right: 0;
  top: .15em;
  -webkit-transition: .3s all ease;
  transition: .3s all ease;
}

.probootstrap-link:hover i {
  right: -10px;
}

.probootstrap-list {
  padding: 0;
  margin: 0;
}

.probootstrap-list li {
  margin: 0 0 10px 0;
  padding: 0;
  position: relative;
  list-style: none;
}

.probootstrap-list li:before {
```

```

font-family: 'icomoon';
speak: none;
font-style: normal;
font-weight: normal;
font-variant: normal;
text-transform: none;
line-height: 1;
/* Better Font Rendering ===== */
-webkit-font-smoothing: antialiased;
-moz-osx-font-smoothing: grayscale;
position: absolute;
top: .3em;
left: 0;
}

.probootstrap-list li.probootstrap-check {
padding-left: 30px;
}

.probootstrap-list li.probootstrap-check:before {
color: #1a57a5;
font-size: 16px;
content: "\eb91";
}

.probootstrap-check-2 {
padding-left: 40px;
position: relative;
}

.probootstrap-check-2:before {
font-family: 'icomoon';
speak: none;
font-style: normal;
font-weight: normal;
font-variant: normal;
text-transform: none;
line-height: 1;
/* Better Font Rendering ===== */
-webkit-font-smoothing: antialiased;
-moz-osx-font-smoothing: grayscale;
position: absolute;
top: .2em;
left: 0;
color: #1a57a5;
font-size: 20px;
content: "\eb91";
}

```

```
.btn {
  border-radius: 0;
  font-size: 16px;
  padding: 10px 40px;
}

.btn.btn-primary {
  background: #1a57a5;
}

.btn.btn-primary:hover, .btn.btn-primary:active, .btn.btn-primary:focus {
  background: #103463;
}

.btn.btn-black {
  color: #ffffff;
  background: #000000;
}

.btn.btn-black:hover, .btn.btn-black:active, .btn.btn-black:focus {
  background: #262626;
}

.probootstrap-service-item {
  position: relative;
  padding: 30px;
  margin-bottom: 30px;
  float: left;
  width: 100%;
}

@media screen and (max-width: 768px) {
  .probootstrap-service-item {
    padding: 0;
  }
}

.probootstrap-service-item .icon {
  display: block;
  font-size: 70px;
  margin-bottom: 50px;
  color: #1a57a5;
}

.probootstrap-service-item h2 {
  font-size: 24px;
  color: #1a57a5;
}
```

```

}

.probootstrap-testimonial {
  background: #ffffff;
  padding: 30px;
  -webkit-transition: .3s all ease;
  transition: .3s all ease;
  border-radius: 4px;
  margin-bottom: 30px;
}

@media screen and (max-width: 768px) {
  .probootstrap-testimonial {
    padding: 20px;
  }
}

.probootstrap-testimonial .probootstrap-author-photo {
  height: 70px;
}

.probootstrap-testimonial .probootstrap-rate i {
  color: #d9d9d9;
}

.probootstrap-testimonial .probootstrap-rate i.icon-star {
  color: #F79F24;
}

.probootstrap-testimonial blockquote {
  padding: 0;
  border: none;
}

.probootstrap-testimonial blockquote p {
  font-style: italic;
  color: #000000;
}

.probootstrap-form {
  margin-bottom: 0px;
  padding: 40px;
  background: #ffffff;
  margin-bottom: 50px;
}

@media screen and (max-width: 768px) {
  .probootstrap-form {

```

```
padding: 15px;
}
}

.probootstrap-form label {
  font-weight: normal;
}

.probootstrap-form .form-control {
  height: 46px;
  -webkit-box-shadow: none;
  box-shadow: none;
  font-size: 14px;
  -webkit-appearance: none;
  -moz-appearance: none;
  appearance: none;
  border-radius: 0;
  border: 1px solid #d9d9d9;
}

.probootstrap-form .form-control:active, .probootstrap-form .form-
control:focus {
  -webkit-box-shadow: none;
  box-shadow: none;
  border: 1px solid #1a57a5;
}

.probootstrap-form .form-group:last-child {
  margin-bottom: 0;
  padding-bottom: 0;
}

.probootstrap-form .form-group label {
  text-transform: uppercase;
  font-size: 13px;
}

.probootstrap-form .form-group .form-field {
  position: relative;
}

.probootstrap-form .form-group .form-field .icon {
  position: absolute;
  top: 50%;
  -webkit-transform: translateY(-50%);
  transform: translateY(-50%);
  right: 20px;
}
```

```
.probootstrap-form .form-group .form-field .form-control {
  padding-right: 50px;
}

.probootstrap-form textarea.form-control {
  height: inherit;
  resize: vertical;
}

.probootstrap-contact-details {
  padding: 0;
  margin: 0;
}

.probootstrap-contact-details li {
  padding: 0;
  margin: 0 0 30px 0;
  list-style: none;
}

.probootstrap-contact-details li > span {
  display: block;
  color: rgba(0, 0, 0, 0.3);
}

.probootstrap-animate {
  opacity: 0;
  visibility: hidden;
}

.mfp-fade.mfp-bg {
  opacity: 0;
  -webkit-transition: all 0.15s ease-out;
  transition: all 0.15s ease-out;
}

.mfp-fade.mfp-bg.mfp-ready {
  opacity: 0.8;
}

.mfp-fade.mfp-bg.mfp-removing {
  opacity: 0;
}

.mfp-fade.mfp-wrap .mfp-content {
  opacity: 0;
  -webkit-transition: all 0.15s ease-out;
```

```

    transition: all 0.15s ease-out;
}

.mfp-fade.mfp-wrap.mfp-ready .mfp-content {
    opacity: 1;
}

.mfp-fade.mfp-wrap.mfp-removing .mfp-content {
    opacity: 0;
}

.image-link {
    cursor: -webkit-zoom-in;
    cursor: zoom-in;
}

/* This block of CSS adds opacity transition to background */
.mfp-with-zoom.mfp-container,
.mfp-with-zoom.mfp-bg {
    opacity: 0;
    -webkit-backface-visibility: hidden;
    -webkit-transition: all 0.3s ease-out;
    transition: all 0.3s ease-out;
}

.mfp-with-zoom.mfp-ready .mfp-container {
    opacity: 1;
}

.mfp-with-zoom.mfp-ready.mfp-bg {
    opacity: 0.8;
}

.mfp-with-zoom.mfp-removing .mfp-container,
.mfp-with-zoom.mfp-removing.mfp-bg {
    opacity: 0;
}

/* padding-bottom and top for image */
.mfp-no-margins img.mfp-img {
    padding: 0;
}

/* position of shadow behind the image */
.mfp-no-margins .mfp-figure:after {
    top: 0;
    bottom: 0;
}

```



```
/* padding for main container */
.mfp-no-margins .mfp-container {
  padding: 0;
}

/* aligns caption to center */
.mfp-title {
  text-align: center;
  padding: 6px 0;
}

.image-source-link {
  color: #DDD;
}

.probootstrap-gutter0 > div[class*='col-'] {
  padding-right: 0px;
  padding-left: 0px;
}

@media screen and (max-width: 480px) {
  .probootstrap-gutter0 > div[class*='col-'] {
    padding-right: 15px;
    padding-left: 15px;
  }
}

.probootstrap-gutter10 > div[class*='col-'] {
  padding-right: 5px !important;
  padding-left: 5px !important;
}

@media screen and (max-width: 480px) {
  .probootstrap-gutter10 > div[class*='col-'] {
    padding-right: 15px;
    padding-left: 15px;
  }
}

.probootstrap-gutter30 > div[class*='col-'] {
  padding-right: 15px;
  padding-left: 15px;
}

@media screen and (max-width: 480px) {
  .probootstrap-gutter30 > div[class*='col-'] {
    padding-right: 15px;
  }
}
```

```
padding-left: 15px;
}
}

.probootstrap-gutter40 > div[class*='col-'] {
padding-right: 20px;
padding-left: 20px;
}

@media screen and (max-width: 480px) {
.probootstrap-gutter40 > div[class*='col-'] {
padding-right: 15px;
padding-left: 15px;
}
}

.probootstrap-gutter60 > div[class*='col-'] {
padding-right: 30px;
padding-left: 30px;
}

@media screen and (max-width: 480px) {
.probootstrap-gutter60 > div[class*='col-'] {
padding-right: 15px;
padding-left: 15px;
}
}

.mb0 {
margin-bottom: 0px !important;
}

.mb10 {
margin-bottom: 10px !important;
}

.mb20 {
margin-bottom: 20px !important;
}

.mb30 {
margin-bottom: 30px !important;
}

.mb40 {
margin-bottom: 40px !important;
}
```

```
.mb50 {
  margin-bottom: 50px !important;
}

.mb60 {
  margin-bottom: 60px !important;
}

.mb70 {
  margin-bottom: 70px !important;
}

.mb80 {
  margin-bottom: 80px !important;
}

.mb90 {
  margin-bottom: 90px !important;
}

.mb100 {
  margin-bottom: 100px !important;
}

.mt0 {
  margin-top: 0px !important;
}

.mt10 {
  margin-top: 10px !important;
}

.mt20 {
  margin-top: 20px !important;
}

.mt30 {
  margin-top: 30px !important;
}

.mt40 {
  margin-top: 40px !important;
}

.mt50 {
  margin-top: 50px !important;
}
```

```
.mt60 {
  margin-top: 60px !important;
}

.mt70 {
  margin-top: 70px !important;
}

.mt80 {
  margin-top: 80px !important;
}

.mt90 {
  margin-top: 90px !important;
}

.mt100 {
  margin-top: 100px !important;
}

.pb0 {
  padding-bottom: 0 !important;
}

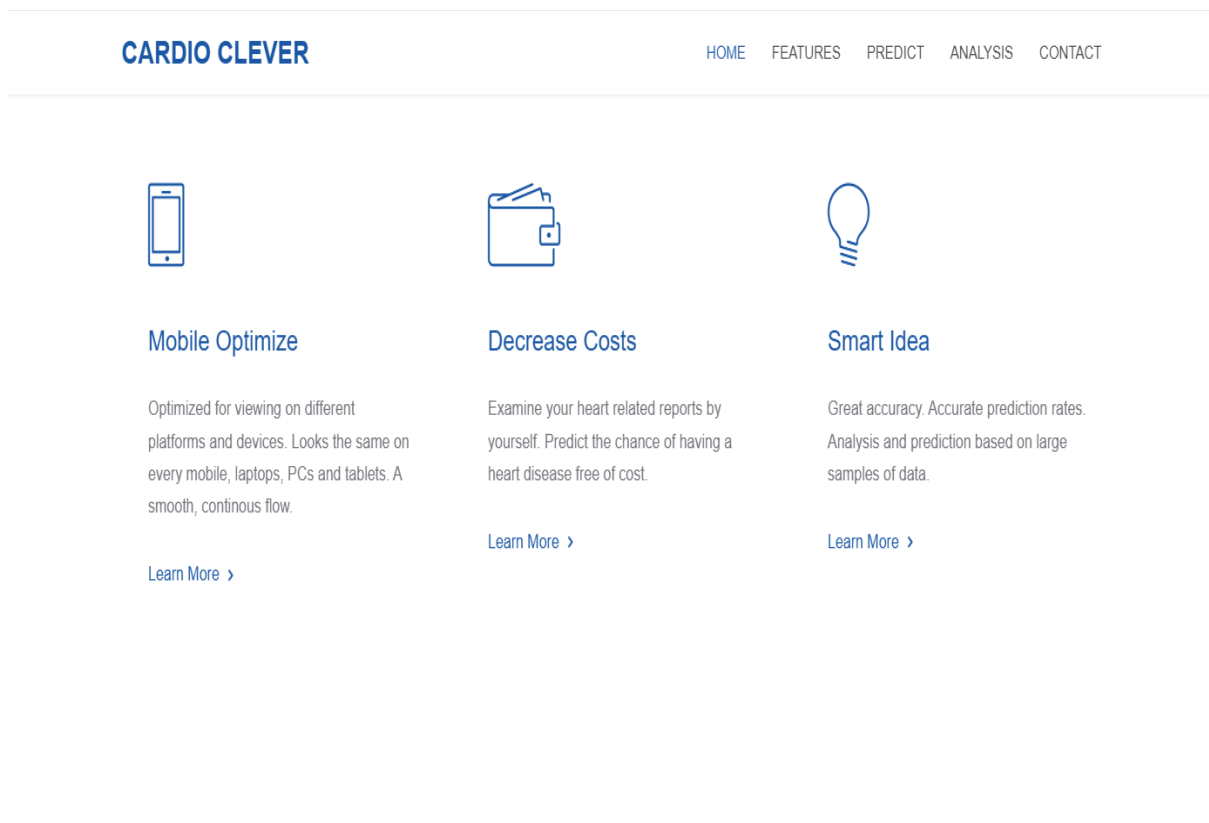
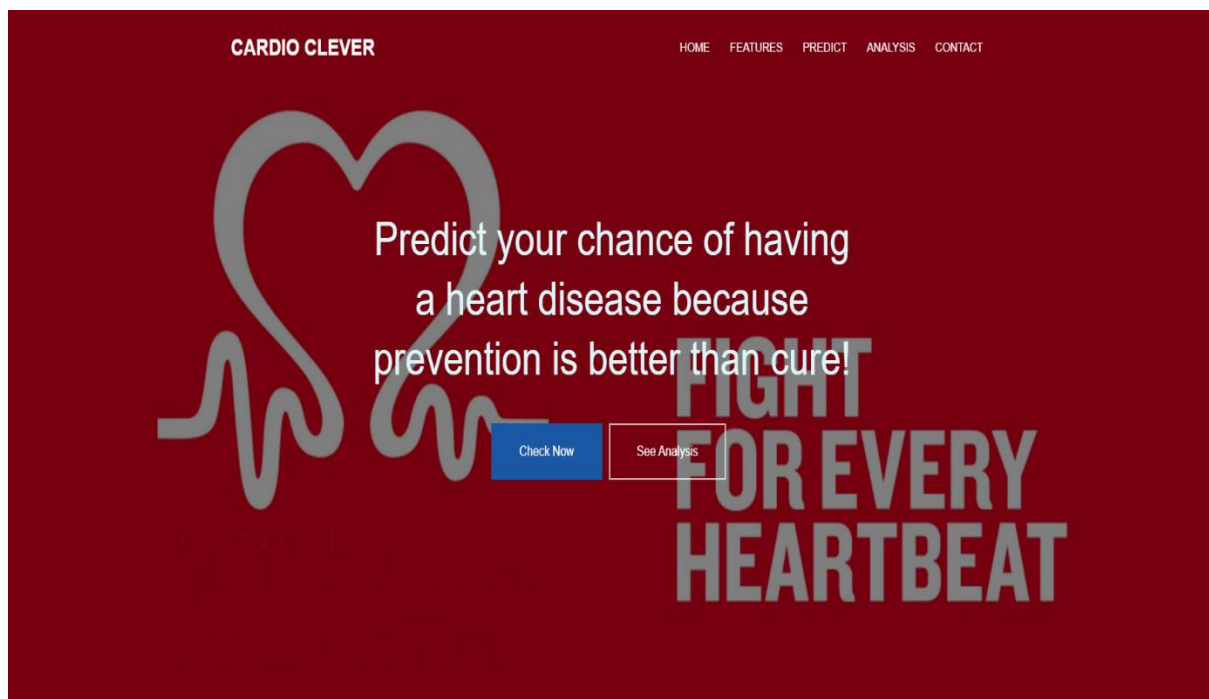
.text-black {
  color: #000000 !important;
}

.text-primary {
  color: #1a57a5 !important;
}

@media screen and (max-width: 768px) {
  .img-sm-responsive {
    max-width: 100%;
  }
}

@media screen and (max-width: 768px) {
  .img-xs-responsive {
    max-width: 100%;
  }
}
```

## 5.2: Output Screens:



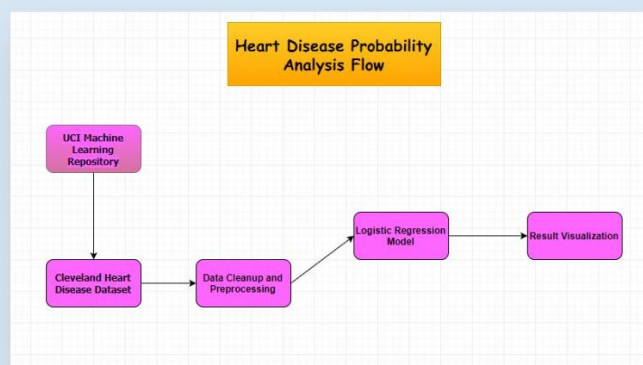
## Heart Disease Predictor

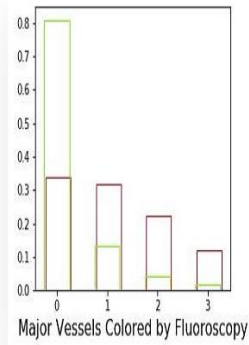
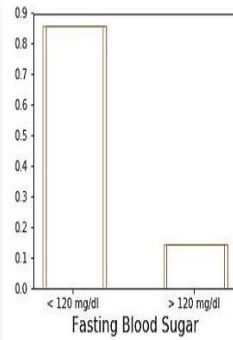
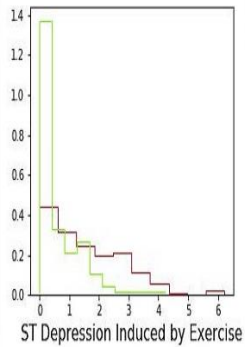
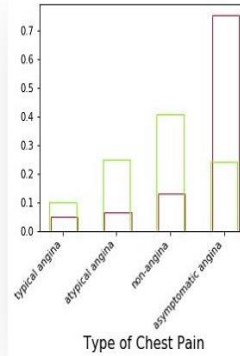
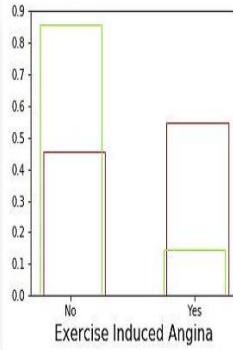
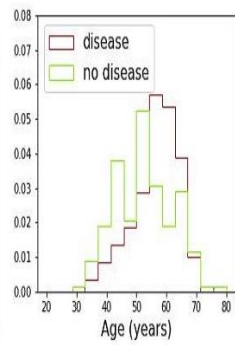
Sex (0=female,1=male)	<input type="range"/>	<input type="text" value="0"/>
Resting Blood Pressure (94 - 200 mmHg)	<input type="range"/>	<input type="text" value="94"/>
Thalium Stress Test Maximum Heart Rate (71 - 202)	<input type="range"/>	<input type="text" value="71"/>
Number of Major Vessels Colored by Fluoroscopy (0 - 3)	<input type="range"/>	<input type="text" value="0"/>
Chest Pain Type (1=typical angina, 2=atypical angina, 3=non-angina, 4=asymptomatic angina)	<input type="range"/>	<input type="text" value="1"/>
Peak Exercise ST Segment (0=flat or downsloping, 1=upsloping)	<input type="range"/>	<input type="text" value="0"/>
Thalium Test: (0=normal or fixed defect, 1=reversible defect)	<input type="range"/>	<input type="text" value="0"/>

[Reset All Sliders](#)Analysis Results Based on  
Dataset Available

Model's accuracy is 87.3 +/- 1.4%. The following are the results of analysis done on the available heart disease dataset. Each graph shows the result based on different attributes.

Green box indicates No Disease. Red box indicates Disease.





## Get In Touch

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Write a Message

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GITHUB   
Chinnolla Sri Ram Goud

### Get In Touch

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## 5.3: Testing

Software testing is a critical element of software quality assurance and represents the ultimate review of specification, design and code generation.



Testing for the urbanStep-Sneakers e-commerce platform involves ensuring functionality, usability, security, and performance.

1. **Functional Testing:**
  - Validate product management, order processing, storefront customization, and inventory tracking functionalities.
2. **Usability Testing:**
  - Evaluate user interface intuitiveness and responsiveness across devices.
  - Gather user feedback for improvements.
3. **Security Testing:**
  - Conduct penetration testing for vulnerabilities.
  - Ensure robust user authentication and secure payment processing.
4. **Performance Testing:**
  - Assess platform performance under normal and peak loads.
  - Test response times for critical actions.
5. **Compatibility Testing:**
  - Ensure compatibility with various browsers, operating systems, and devices.
6. **Regression Testing:**
  - Test existing functionality after updates to prevent regression issues.

## 6. CONCLUSION

- Take charge of Heart Disease Prediction and Prevention
- Heart disease is a leading cause of death worldwide and can be prevented through early prediction and proactive measures and regular health screenings, lifestyle modifications, and awareness are key to reducing the risk of heart disease.
- Visit Cardio Clever: Your Heart's Best Defense
- For more information on heart disease prediction and prevention, visit the Cardio Clever website.
- Cardio Clever provides valuable resources, tips, and tools to help individuals their heart health.