**Synopsis**

**on**

**Heart Disease Prediction Website**

**Submitted by**

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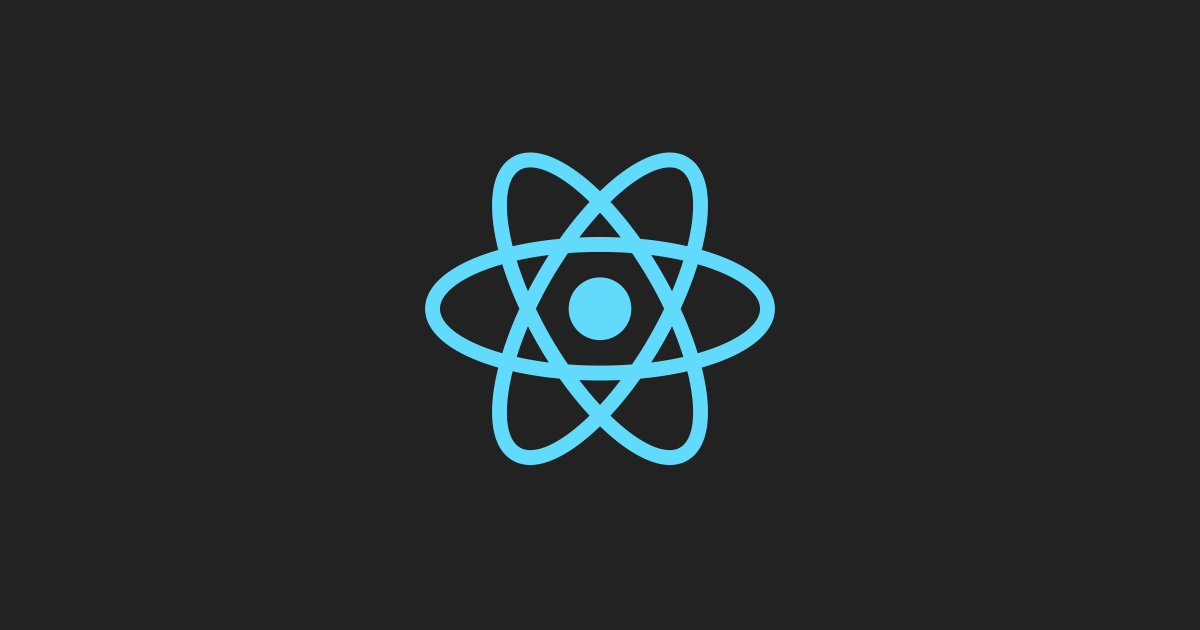
**Introduction**

* It might have happened so many times that you or someone yours need doctors help immediately, but they are not available due to some reason.
* The Heart Disease Prediction application is an end user support and online consultation project.

* Here, we propose a web application that allows users to get instant guidance on their heart disease through an intelligent system online.
* The application is fed with various details and the heart disease associated with those details.
* The application allows user to share their heart related issues.
* It then processes user specific details to check for various illness that could be associated with it.
* Here we use some special Algorithms which analyses the details of the user and predict whether he has heart disease or not.
* The system can be use in case of emergency.

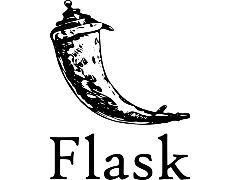
**Technologies**

**React:**



ReactJS is a declarative, efficient, and flexible JavaScript library for building reusable UI components. It is an open-source, component-based front-end library

**Flask:**

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Flask is an API of Python that allows us to build up web-applications. It was developed by Armin Ronacher.

**My SQL:**

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MySQL is a very popular open-source relational database management system (RDBMS).

**SK-learn:**

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Scikit-learn (Sklearn) is the most useful and robust library for machine learning in Python.

**Benefits**

* User can talk about their Heart Disease and get instant diagnosis.
* Users Health details are collected which can be used to analyses another disease also.
* Very useful in case of emergency.

**Hardware & Software Used**

\*Operating System: Window 10

\* Processor : Intel core™ i5-10210U CPU @ 1.60GHz 2.11 GHz

\* System Type : 64 bit

\*IDE : VScode,Pycharm.

**The system comprises of 2 major modules as follows:**

* **Admin Module**
* Add Training Data
* View User Details
* View Feedback
* View Training Data
* **User Module**

1. Register (With Details like Age, Sex, etc.)
2. Check Heart (By providing Details like

* Age in Year
* Gender
* Chest Pain Type
* Fasting Blood Sugar
* Resting Electrographic Results(Restecg)
* Exercise Induced Angina(Exang)
* The slope of the peak exercise ST segment
* CA – Number of major vessels colored by fluoroscopy
* Thal
* Trest Blood Pressure
* Serum Cholesterol
* Maximum heart rate achieved(Thalach)
* ST depression induced by exercise(Oldpeak)

1. Give Feedback

**Outcome**

Created a Website Providing instant heart disease Pridiction.

It will pridict if the user has a heart disease or not which can be helpful in Emergency cases and can be beneficial to track the heart health record of a user.

