**design and implementation in web application of effecting heart disease and diabetes for predicting covid-19**

**steps for executing the project :**

our project is predicting covid 19 using machine learning algorithm. here we can see the steps to execute our project.

**step 1:** in the starting page, we have to register first and then login to the home page.

**step 2:** after login, you can able to see the home page with three buttons, **make prediction** , **diabetes prediction** and **covid prediction.**

**step 3:** in make prediction, you can check whether you have heart disease or not. in diabetes prediction you can check your diabetes status. if you have both diabetes and heart disease , we can predict that you can easily affected by covid 19.

**step 4:** after you enter into the make prediction, you can view the heart disease form. there you have to enter your details.

the data which they ask is,

1.age

2.sex

3.chest pain type – options given below

1. typical type 1 -> anterior
2. typical type agina -> decrease in blood flow and oxygen.
3. non – agina pain -> increase in blood flow and oxygen.
4. asymptomatic -> no chest pain

4.resting blood pressure –

1. normal -> < 120 over 80
2. ubnormal -> below 80
3. high -> 135 over 85

5.serum cholesterol –

1. healthy cholesterol range –> (< 200mg)
2. bad cholesterol -> (< 100mg)
3. higher cholesterol -> (40mg)

6.fasting blood sugar – options

1. less than equal to 120 – normal
2. greater than 120 – high sugar

7.resting electrographic results – options

1. normal
2. having st-t wave -> abnormal
3. left ventricular hypertrophy -> can lead to heart failure

8.maximum heart rate achieved –

1. normal – (60-100 beats per minute)
2. abnormal – (130-150 beats per minute)

9.st depression induced by exercise – options (1 to 4)

1. 1 -> good
2. 2 -> better
3. 3 -> high
4. 4 -> very high

10.no of major vessels colored by floursopy – options

11.defect type

**step 5:** after you have entered your data, you should click the predict button.

**step 6:** check whether you have disease or not. then come back to home page to check diabetes status.

**step 7:** now you are in home page, click diabetes prediction and enter into the diabetes section.

**step 8:** here you have register and login to check your diabetes status.

**step 9:** after login, you can see the result page with **new patient** button , click to new patient and enter the data.

1. pregnancies
2. glucose
3. bmi
4. diabetes pedigree function
5. age

**step 10:** after you enter this data, click submit button.

**step 11:** you will get the result whether you have diabetes or not.

**step 12:** Then come back and see, third button “ covid prediction “, will be there , click the button and enter into the page . there you have to enter the results of both heart and diabetes result.

**step 13:** after submitting the results , you will get the alert message according to your result.