

Project Name:	Project - Early Detection of Chronic Kidney Disease using Machine Learning
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SPRINT 4

FrontEnd and Backend connection

1.FrontEnd Development

OUTPUT PAGE

Result.html

```
<!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>Document</title>
    <style>
      .header {
        display: flex;
        justify-content: center;
        align-items: center;
      }
      .title {
        background-color: #2e6e82;
        border-radius: 5px;
        padding: 20px 90px;
```

```
    color: white;
}
.resultWrapper {
    display: flex;
    height: 200px;
    justify-content: center;
    align-items: center;
}
.result {
    border-radius: 10px;
    padding: 10px 30px;
}
.result-positive {
    color: red;
    font-size: larger;
}
.result-negative {
    color: blue;
    font-size: larger;
}
h2 {
    color: #2e6e82;
}
</style>
</head>
<body>
    <div class="header">
        <h1 class="title">Chronic Kidney disease prediction</h1>
    </div>
    <div class="resultWrapper">
        <div class="result">
```

```
<h2>
Prediction:
<samp class="result-positive">You have Chronic Kidney Disease</samp>
</h2>
<!-- <h2>
Prediction:
<samp class="result-negative"> You Don't Chronic Kidney Disease</samp>
</h2> -->
</div>
</div>
</body>
</html>
```

Results Page

Chronic Kidney disease prediction

Prediction: You have Chronic Kidney Disease

2.Backend development

Flask

```

import pandas as pd
from flask import Flask, request, render_template
import pickle

app = Flask(__name__) # initializing a flask app
model = pickle.load(open('CKD.pkl', 'rb')) #loading the model

@app.route('/')# route to display the home page
def home():
    return render_template('home.html') #rendering the home page
@app.route('/Prediction',methods=['POST','GET'])
def prediction(): # route to display prediction page
    return render_template('indexnew.html')
@app.route('/Home',methods=['POST','GET'])
def my_home():
    return render_template('home.html')

@app.route('/predict',methods=['POST'])# route to show the predictions in a web UI
def predict():
    #reading the inputs given by the user
    input_features = [float(x) for x in request.form.values()]
    features_value = [np.array(input_features)]

```

```

    features_name = ['blood_urea', 'blood glucose random', 'coronary_artery_disease',
                    'anemia', 'pus_cell', 'red_blood_cells', 'diabetesmellitus', 'pedal_edema']

    df = pd.DataFrame(features_value, columns=features_name)

    output = model.predict(df) # predictions using the loaded model file

    # showing the prediction results in a UI# showing the prediction results in a UI
    return render_template('result.html', prediction_text=output)

if __name__ == '__main__':
    app.run(debug=True) # running the app

```