-üldinfo-

rühma liikmed : Jevgeni Golosov

programmi nimi : "Keemia kalkulaator"

probleem : keemia võrrandite

tasakaalustamine

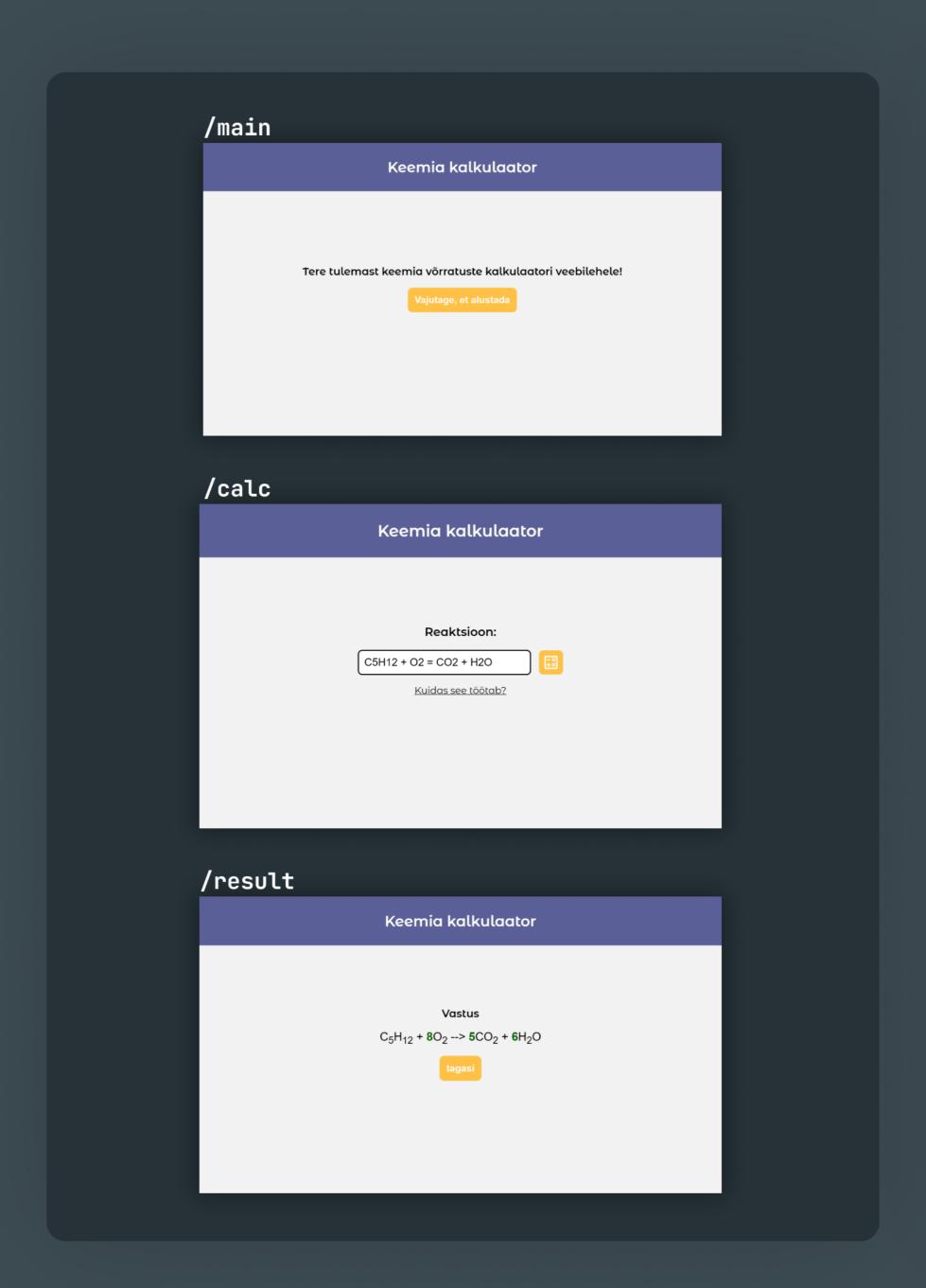
lühikirjeldus

programm võimaldab võrdsustada kasutaja poolt sisestatud keemilisi reaktsioone

GitHubi link

https://github.com/JevGolo/
 proge4_project

proge 4 // projekt -pildid-



-programmi kood-

Python

JavaScript

```
def index():
    return redirect("/main")
@app.route("/main")
def main():
   return render_template("main.html")
@app.route("/calc")
def calc():
    return render_template("calc.html", mess="")
@app.route("/result", methods=['POST', 'GET'])
def result():
    if request.method = "POST":
       reaction = request.form['reaction']
       if reaction \neq "":
            return render_template("result.html", react=request.form['reaction'])
       return redirect("/calc")
@app.route("/help")
    return render_template("help.html")
def calc_react( reaction_input ):
       parts = reaction_input.split("=")
       reactants_str = [a.strip() for a in parts[0].split("+")]
       products_str = [a.strip() for a in parts[1].split("+")]
        products = [Compound(el) for el in products_str]
        r.balance()
        coeffs_str_list = [f'{value}' for key, value in r.coefficients.items() ]
            'reactants' : reactants_str,
            'products' : products_str,
            'coeffs' : coeffs_output,
        return json.dumps( output ), 200
                                                                                      $.post("/get_coeffs",
@app.route("/get_coeffs", methods=['POST', 'GET'])
def get_coeffs():
   if request.method = "POST":
       return calc_react( request.form['react'] )
       return redirect("/main")
if __name__ = "__main__":
   app.run(host = "localhost", port = 80, debug=True)
```

```
let hidden_input = document.getElementById('reaction');
let user_react = hidden_input.getAttribute('data-r');
 let resultDiv = document.getElementById('result');
function smaller_numbers( _text_ ) {
 function set_data( _data_json_ ) {
    let len_products = data_obj.products.length;
    let coeffs_reactants = data_obj.coeffs.slice( 0, len_reactants );
    let coeffs_products = data_obj.coeffs.slice( len_reactants );
    let reactants_str_array = [];
    let products_str_array = [];
           part += '<a class="coeff-number">' + c + '</a>';
       products_str_array.push( part )
    let f_result = reactants_str_array.join("+") + " <math>\rightarrow " + products_str_array.join("+")
   console.log( xhr.status );
if( data = "error")
      alert( "Midagi läks valesti. Kontrollige keemia võrrand ja proovige uuesti palun" );
```