

Python programming

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Application for Project exercise on Building a  
Geowater web service.

→ Frontend code

```
from flask import flask, render_template, request
from geopy.geocoder import Nominatim
import pandas

app = flask(__name__)

@app.route("/")
def index():
    return render_template("index.html")

@app.route('/success-table', methods=['POST'])
def success_table():
    if request.files['file']:
        df = pandas.read_csv(request.files['file'])
        ge = Nominatim()
        df['coordinates'] = df['Address'].apply(lambda x: ge.geocode(x).longitude if x != None else None)
        df = df.drop('coordinates', 1)
        df.to_csv('uploads/geocoded.csv', index=None)
    return render_template("index.html", text=df.to_html())
```



```

btn = 'download.html'
@ app.route("/download_file")
def download():
    return send_file(filename, attachment_filename='yourfile.csv', as_attachment=True)
if __name__ == "__main__":
    app.run(debug=True)

```

## HTML

```

<!doctype html>
html lang="en"
<title> super Geocoder </title>
<head>
<link href=".../static/main.css" rel="stylesheet"
</head>
<body>
<div class="container">
<h1> super Geocoder </h1>
<h3> please upload your CSV file. The
values containing addresses should be in a
column named <em> address </em> or
<em> address </em> </h3>
<form action="{url}" method="post" enctype="multipart/form-data">
<input type="file" accept=".csv" name="file">
<button type="submit"> submit </button>
</form>
<div class="output">

```



{ { text /safe } }

{ % include btn ignore missing % }

< /div>

< /div>

< /body>

< /html>