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Course:	Python programming	Usn:	4AL17EC076
Topic:	Application 10	Semester and section	6th sem and B sec

APPLICATION 10: Project Exercise on Building a Geocoder web service

→ Frontend code

```python
from flask import Flask, render_template, request, send_file
from geopy.geocoders 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.method == "Post"
        file = request.files['file']
        df = pandas.read_csv(file)
        gc = Nominatim()
        df["Coordinates"] = df["Address"].apply(gc.geocode)
        df["Latitude"] = df["Coordinates"].apply(lambda x:
                          x.latitude if x != None else None)
        df["Longitude"] = df["Coordinates"].apply(lambda x:
                          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-file1")
def download():
    return send_file(filename, attachment_filename=
                     'yourfile.csv', as_attachment=True)
if _name_ == "_main_":
    app.run(debug=True)
```

* Frontend

html

```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>
```

```html
<form action="{{url_for('success_table')}}"
      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>
```