Minimal secure public "ping" API

This project runs a small Express server that responds with `ping` for any route and method. It includes safe defaults (Helmet, CORS, rate limiting, small body limits, logging, compression) and can optionally expose a public URL using a tunnel so others on the internet can query it while it runs on your Mac.

Quick start

1. Install dependencies:

```
npm install
```

2. Start locally:

```
npm run dev
# or
npm start
```

Visit `http://localhost:8080/ping`.

3. Expose publicly (optional):

```
npm run expose
```

The console will print a `Public URL:`. Share that URL. While the server runs, anyone can query it.

Security notes

- Defaults are conservative: only GET/HEAD are allowed cross-origin by default; body size limited to 10kb; rate limit of 60 requests/minute per IP.
- To allow broader access (e.g., POST), set `CORS_ORIGIN=*` in your environment.
- This is still an internet-exposed endpoint. Avoid adding stateful or file-system operations unless you fully validate and authenticate requests.
- Prefer running behind a random tunnel URL. Disable `ENABLE_TUNNEL` when not in use.

Configuration

Environment variables (can be placed in a `.env` file). See `env.sample` for a template.

- `PORT` (default `8080`) – port to listen on
- `HOST` (default `0.0.0.0`) – listen interface
- `CORS_ORIGIN` (default `GET_ONLY`) – `GET_ONLY`, `*`, or comma-separated allowed origins
- `RATE_LIMIT_WINDOW_MS` (default `60000`)

- RATE_LIMIT_MAX (default 60)
- BODY_LIMIT (default 10kb)
- AUTH_TOKEN – if set, require Authorization: Bearer <token> for all requests
- TRUST_PROXY (default 1) – trust proxy hops for correct client IPs behind tunnels
- ENABLE_TUNNEL (default 0) – set to 1 to enable localtunnel
- TUNNEL_SUBDOMAIN – optional preferred subdomain
- GEOCODER_BASE_URL – base URL for a Nominatim-compatible geocoder used by /geocode/bbox
  (default https://nominatim.openstreetmap.org)

Example responses

```
{
  "message": "ping",
  "method": "GET",
  "path": "/anything",
  "query": { "foo": "bar" },
  "headers": { "user-agent": "..." },
  "timestamp": "2025-01-01T00:00:00.000Z"
}
```

Scripts

- npm start – start server
- npm run dev – start with auto-reload
- npm run expose – start and open a public tunnel

Geocoding Endpoint

- GET /geocode/bbox?q=<address>: Returns the latitude/longitude for the best match and the
  bounding box for the address.

Example:

```
# URL-encoded address (works in any shell)
curl "http://localhost:8080/geocode/bbox?
q=1600%20Pennsylvania%20Ave%20NW%2C%20Washington%2C%20DC"

# or let curl encode it for you
curl -G --data-urlencode "q=1600 Pennsylvania Ave NW, Washington, DC"
http://localhost:8080/geocode/bbox
```

Response:

```
{
  "query": "1600 Pennsylvania Ave NW, Washington, DC",
  "provider": "nominatim",
```

```
    "center": { "lat": 38.897675, "lon": -77.036547 },
    "bbox": { "south": 38.897, "west": -77.037, "north": 38.898, "east":
-77.036 }
}
```

Notes:

- The default provider is OpenStreetMap Nominatim. You can point to your own Nominatim instance by setting GEOCODER_BASE_URL.
- If AUTH_TOKEN is set, include Authorization: Bearer <token> in requests.
- Default CORS allows only GET/HEAD from anywhere. This endpoint is GET-only and works with the default.
- Errors: 400 for missing/too-long query, 404 if not found, 502 if provider is unavailable, 504 for timeouts.