**Time & Date Stamp — Requirements (saved)**

**Core flow**

* Users visit /app, **sign up / log in** (email + password).
* Drag & drop **JPG/PNG or a .zip**, enter:
  + **Date**: dd/mm/yyyy
  + **Start time / End time**: accepts HH:MM:SS (24h) or hh:mm:ss am/pm
  + **Crop height (px from bottom)** to remove old phone stamp
* Click **Stamp & Download**:
  + Server crops from the **bottom**, then adds a **natural** timestamp (no box/shadow), bottom-right.
  + Format: **27 Aug 2025, 09:03:34 am** (lowercase am/pm)
  + Images returned as a **ZIP**.

**Credits & pricing**

* Each “Stamp & Download” **consumes 1 credit**.
* **£20 per credit**. For now: **manual weekly invoicing**.
* Admin can **top up** credits, **lock/unlock** accounts for non-payment.
* Later: add **Stripe** for self-serve purchases.

**Tech & files (current working setup)**

* **FastAPI + Pillow + SQLite**.
* Files: main.py, auth.py, processing.py, index.html.
* Auth: salted+hashed passwords; cookie sessions; SQLite tables: users, sessions, usage\_log.
* /api/stamp requires login, checks is\_active, requires ≥1 credit, **deducts 1**, logs usage.
* Admin endpoints (header X-Admin-Secret):
  + POST /auth/topup\_admin (email, amount)
  + POST /auth/lock\_admin (email, is\_active 0/1)
  + GET /report/weekly → CSV of credits used & £ due
* Optional demo top-up: POST /auth/topup\_demo (enabled with ALLOW\_DEMO\_TOPUP=1).

**Stamping details**

* Accepts images or a **single ZIP**; EXIF orientation corrected.
* **Even time spread** across the batch (single image uses start time).
* **Fixed font size** (52 px) so text looks the same across portrait/landscape.
* White text, bottom-right, small margin, **no box/shadow**.
* Outputs JPEGs → zipped; ZIP streamed then auto-cleaned.

**Environment variables**

* ADMIN\_SECRET — long random string for admin endpoints
* ALLOW\_DEMO\_TOPUP=1 — show “Top up +5 (demo)” in UI
* CREDIT\_COST\_GBP=20 — price per credit (for reports/display)

**How to run (local)**

cd "C:\Users\brimc\OneDrive\Favourites\Email attachments\Documents\Desktop\IMAGE STAMP"

$env:ADMIN\_SECRET = "your\_long\_random\_secret"

$env:ALLOW\_DEMO\_TOPUP = "1"

$env:CREDIT\_COST\_GBP = "20"

.\.venv\Scripts\python.exe -m uvicorn main:app --reload --host 127.0.0.1 --port 8000

Open http://127.0.0.1:8000/app, **Sign up/Login**, (optionally use demo **Top up +5**), then stamp.

**Next steps (tomorrow)**

* Fine-tune **font & size** to better match your example (can switch to exact font, adjust margin).
* Try a few **crop bottom** values to perfectly remove old stamps.
* (Optional) Add **admin mini-UI** for top-ups/locks and a “Billing” page.
* Plan **hosting** (Render/Railway/DigitalOcean) and then add **Stripe** Checkout.

If you want, I can also set a reminder to continue tomorrow—just say the time and I’ll schedule it.