

Laravel TakeHome Task (5+ Years Laravel Experience)

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Time Limit: 36 Hours

Deliverable: GitHub/GitLab Repository (public or unlisted)

1. Scenario

Build a small ****Company Asset Manager****.

Backend: Laravel 11 (API only, Sanctum tokens)

Frontend: Candidate's choice (React, Vue, HTML, Bootstrap, Tailwind, Livewire, Inertia, jQuery, etc.)

Must run with:

- `php artisan serve`
- SQLite database

2. Backend API Contracts

Endpoint Specification

POST /login

- No auth
- Input: email + password
- Output: Sanctum token

POST /logout

- Auth: token
- Revoke token

GET /user

- Auth: token
- Return current user (role: admin | employee)

CRUD /categories

- Auth: token
- Admin only
- Soft delete

CRUD /assets

- List/search: all
- Create/update/delete: admin only

POST /assets/{id}/assign

- Admin assigns asset to employee

POST /assets/{id}/return

- Admin marks asset returned

POST /assets/import

- Admin uploads .xlsx/.csv
- Returns preview
- ``?confirm=1` → executes import in DB transaction

GET /reports/dashboard

- Auth
- Returns: total, assigned, available, broken, last 5 assignments

GET /reports/assignments/export

- Auth
- Stream CSV of all assignments

Sanctum header:

Authorization: Bearer

3. Required Features

****Roles & Gates****

- ``role` column: admin | employee
- Policies/Gates on all routes

****Asset Fields****

- code (auto-generated: AST00001)
- category_id
- name
- serial_no
- price
- purchase_date
- warranty_months
- status: available, assigned, broken, scrapped
- notes
- image path

****Images & WebP****

- Upload only jpg/png ≤ 2MB
- Store in storage/app/public

- A queue job generates WebP
- Public URLs returned in JSON:
- /storage/assets/AST■00001.jpg
- /storage/assets/AST■00001.webp

****Import****

- Upload .xlsx/.csv
- Return first 10 rows + errors
- ``?confirm=1` → import
- Auto-create missing categories (case-insensitive)

****Queue Job Requirements****

- WebP conversion must run in queue
- Queue driver: database acceptable
- No Horizon required

****Seeder****

- db:seed must create:
- 1 admin
- 4 employees
- 50 assets
- sample assignments

4. Front■End

Free choice. Minimal required screens:

- Login
- Asset List
- Import modal
- Assign button

5. Deliverables (Documentation)

README.md must include:

- Clone steps
- Install (composer, npm)
- Migrate + seed
- Queue worker command
- Default login (email/password)
- 1-line command to start backend + queue
- 2■minute Loom recording: login → import → assign → export

- Postman collection or OpenAPI optional

6. Do NOT Spend Time On

- Docker
- CI pipelines
- PHPUnit tests
- Horizon metrics
- Billing
- Emails
- Mobile APIs

7. Scoring (100 Points)

- Auth + Sanctum (10)
- Category CRUD (5)
- Asset CRUD + WebP job (25)
- Assign/Return logic (15)
- Import (preview + transaction) (20)
- Dashboard + CSV export (10)
- Clean code (Pint, no N+1) (10)
- README + video + seeded data (5)

36■hour timer starts when candidate opens this file.