Laravel Address Book – Time Sheet

Project Name: Laravel Address Book

Developer: Dax Panara

Total Time Spent: 3 hours 50 minutes

# Breakdown:

## 1. Project Setup – 25 mins

* • Laravel installation and configuration
* • Routing and controller structure
* • Migration and model setup for `cities` and `address\_books`
* • Seeded predefined cities into the database
* • Configured .env, database connection, indexing, and slug-based routing

## 2. CRUD Operations – 90 mins

* • Developed Create, Read, Update, and Delete functionalities using slugs
* • Implemented FormRequest validation for clean logic separation
* • Used route model binding for update/edit via slug
* • Designed basic Blade UI views with validation error feedback

## 3. Image Upload & Email Validation – 30 mins

* • Client-side and server-side image validation (only JPG/PNG/GIF/WEBP/SVG, max 300KB, 150x150px)
* • Stored images in `uploads/profiles` with proper fallback handling
* • Displayed uploaded image in the listing view
* • AJAX-based real-time email uniqueness validation via route `/check-email`
* • Email validated using Laravel rules and frontend JS feedback

## 4. Email Notifications & Queued Promotional Email – 25 mins

* • Sent confirmation email immediately after successful entry
* • Configured Laravel queue and dispatched promotional email with 1-hour delay (tested via `php artisan queue:work` using 15-second demo delay)

## 5. Filtering, Search, Redis Caching – 25 mins

* • Implemented filters on listing page (by City and Zip Code)
* • Optimized performance using Redis-based caching per city/zip combo
* • MySQL indexes added to zip and city columns

## 6. Export Feature – 15 mins

* • Exported address book entries into CSV format using Laravel streaming
* • Created XML export using PHP’s `SimpleXMLElement`

## 7. Activity Logging – 10 mins

* • Logged each Insert, Update, and Delete action in `activity\_logs` table
* • Stored logs in JSON format for traceability

## 8. Final Testing & Bug Fixes – 10 mins

* • Fixed profile image path issues
* • Solved update issues when only name was changed
* • Verified full flow: form, filters, export, image, validation, and logs

## ✅ Total Duration: 3 hours 50 minutes