



Assignment

Task

In this exercise, you'll design and implement a web application that allows users to upload a **passport** and **G-28 form** (in PDF or image format). The application should automatically **extract relevant data** from these uploaded documents and use that information to **populate a provided web form**. Here is the test form:

<https://mendrika-alma.github.io/form-submission/>

This task simulates a real-world document automation process that reduces manual data entry effort.

Requirements

- **File Upload Interface:**

Build a simple interface (e.g., using Flask, FastAPI, a lightweight React front-end, etc) that allows uploading of passport and G-28 documents (example below).

- Supported formats: PDF and image (JPEG/PNG).

- **Data Extraction:**

Implement logic to extract structured data (e.g., full name, date of birth, country, address, attorney name, firm, etc.) using one or a combination of:

- MRZ extraction
 - OCR
 - LLM-based solutions

- **Form Population:**

Use browser automation (e.g., Playwright, Puppeteer, Selenium, or an LLM agent) to:

- Navigate to the provided form URL
 - Accurately fill in the fields with extracted data
 - **Do not submit** or digitally sign the form

- **Robustness:**

The system should tolerate minor variations in document formatting or field labeling without requiring code changes. It should handle missing data and passports from various countries.

Deliverables

- A **local web interface** (Flask/FastAPI or similar) that runs with minimal setup and allows for document upload, extraction, and form population testing.
- **Working source code**, ideally in a public GitHub repository, with clear setup instructions (please provide access to shuo@tryalma.ai when submitting).
- A short **screen recording** (e.g., Loom) showing the workflow from upload to automated form population.
- **Time estimate:** 3-5 hours.
- Put everything relevant into a file such as .txt and upload below.

Here is [an example G-28 Form](#).

Submission

Files

 **Upload File(s)**

or drag and drop here

Notes

Write here...

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