Potential improvements

1. Persistent Storage for Blacklisted IBANs
    a. Current: IBANs are stored in-memory, which means data is lost on restart.
    b. Improvement: Integrate a database (e.g., PostgreSQL, MongoDB) to persist the blacklist, enabling durability, querying, and audit trails.
2. Advanced IBAN Validation
    a. Current: IBAN detection uses regex and simple normalization.
    b. Improvement: Implement full IBAN validation including country-specific length checks.
3. Security Enhancements
    a. Add authentication and authorization to restrict API access.
    b. Secure communication with HTTPS and proper certificate management.
4. Scalability and Performance
    a. Introduce caching for frequently scanned documents or IBAN checks.
    b. Use asynchronous processing or message queues to handle large volumes of scans without blocking API responses.
    c. Containerize the application (Docker/Kubernetes) for easier scaling.
5. Improved Error Handling and Reporting
    a. Return detailed error messages for different failure scenarios (e.g., invalid URL, corrupted PDF).
    b. Provide audit logs and traceability for compliance and debugging.
6. User Interface
    a. Develop a simple web UI or dashboard for managing blacklisted IBANs, viewing scan history, and monitoring system health.