

## Coding Challenge – Invoice Scanner Service

**Objective:** In this challenge, we aim to protect our platform against money laundering by checking if submitted invoices contain any blacklisted IBANs. Your task is to create a small service that downloads and scans PDF documents for these IBANs.

### Things we would like to see:

1. **API Design:**
  - Create an API endpoint that accepts a URL as input for scanning.
  - The API should return a response indicating whether any blacklisted IBANs were found in the scanned document.
2. **Functionality:**
  - Implement functionality to download PDF documents from the provided URLs.
  - Perform check against the downloaded PDF documents for blacklisted IBANs.
  - If any blacklisted IBAN is detected, the check should fail (return an appropriate error response).
3. **Extensibility:**
  - Design the service in a way that allows for easy addition of further checks in the future.
4. **Documentation:**
  - Provide clear instructions on how to set up and run your solution locally.
  - Include comments within your code explaining your implementation choices and reasoning.
  - Share your thoughts on potential areas for improvement or additional considerations that could enhance the service in the future.

### Assumptions:

- The text in the PDFs is always selectable.
- No authentication is required for downloading files or accessing the API.
- You are free to invent a list of blacklisted IBANs; please ensure they follow standard IBAN formatting.

### Attached Documents:

- Example invoice document containing sample IBANs.

### Constraints:

- The solution must be developed using Java.
- You may use additional technologies or libraries as needed but explain their purpose.

We do not expect a feature-perfect solution; rather, we want to assess your coding skills and problem-solving strategies.

Have fun with this challenge! We look forward to seeing your creative solutions!