Assessment Brief: Autonomous Insurance Claims Processing Agent

1. Problem Statement
Build a lightweight agent that:
- Extracts key fields from FNOL (First Notice of Loss) documents.
- Identifies missing or inconsistent fields.
- Classifies the claim and routes it to the correct workflow.
- Provides a short explanation for the routing decision.

2. Sample FNOL Documents
You will be provided with 3–5 dummy FNOL documents in PDF/TXT formats.

3. Fields to Extract
Policy Information:
- Policy Number
- Policyholder Name
- Effective Dates

Incident Information:
- Date
- Time
- Location
- Description

Involved Parties:
- Claimant
- Third Parties
- Contact Details

Asset Details:
- Asset Type
- Asset ID
- Estimated Damage

Other Mandatory Fields:
- Claim Type
- Attachments
- Initial Estimate

4. Routing Rules
- If estimated damage < ■25,000 → Fast-track
- If any mandatory field is missing → Manual review
- If description contains words like “fraud”, “inconsistent”, “staged” → Investigation Flag
- If claim type = injury → Specialist Queue

5. Output Format (JSON)
{
"extractedFields": {},
"missingFields": [],
"recommendedRoute": "",
"reasoning": ""
}

6. Tools & Frameworks
Use any programming language or libraries.
AI tools are encouraged for speeding up development.

7. Submission
- GitHub repository
- README with approach and steps to run
- Optional short demo video