Full Stack Developer Assessment

Project Overview

Creative Dynamic Onboarding Form System

Scenario / Context

Design an onboarding platform for a financial services firm. The platform must support customizable onboarding forms (KYC, loan, investment declarations, etc.), allow document uploads, and notify admins asynchronously when new submissions arrive.

The company expects this platform to evolve and scale but they have no clear requirements on how many forms, fields, or rules they will need. You must therefore come up with a design that is flexible, future-proof, and creatively justified.

Requirements

1. Admin Setup
– Admins should be able to create new forms, name them, and configure fields (types: text, number, date, dropdown, checkbox, file upload).

– Creativity check: You must decide how admins will configure these fields (UI vs JSON editor vs API-first). Justify your choice.

2. Client Submission
– Clients should see the available forms and complete them with text inputs and document uploads.

3. Notifications (Celery or equivalent)
– When a form is submitted, the system must trigger an async task that notifies the admin.

4. Edge Cases
– The number of forms is unknown and unbounded.

– Fields may evolve over time; new submissions must not break old ones.

– Some forms may require only 2–3 fields, others may require 20+.

– Multiple file uploads per form may be required.

– Validation rules may differ (e.g., income proof only if loan amount > X).

– Two forms could have identical field names but different business meanings.

– Optional fields should not block submissions.

– Creativity Constraints (Key)

– There is no single correct implementation. You must explain and justify:

– Your design decisions (data model, notification channel, field configuration strategy).

– Your UX approach for admins and clients.

– How you make the system scalable for unknown future needs.

Deliverables

- Create a github repository and share the link on submission, also include a recording of the walkthrough of the working app on your local development device.
- Documentation of design decisions, including why you picked certain approaches over others.
- Unit tests

Tech Stack

- Next Js / React & DRF

Submission Deadline

- Provide all deliverables by **06 October 2025, 5:00 PM.**
- Final projects should be submitted to: caleb.kimutai@actserv-africa.com
                            Cc: recruitment@actserv-africa.com

For any questions or clarifications, feel free to reach out via the email above.