Technical Assessment (AAIB)

Introduction:

Welcome to our assessment! This assessment is designed to evaluate your skills in test case design, bug identification, and test automation. Please read each section carefully and complete the tasks to the best of your ability.

1. **Section 1: Test Case Design:**
Scenario:

A new feature, the "**AI Financial Wellness Coach**," is being introduced to our mobile banking application.

Feature Overview:

The 'AI Financial Wellness Coach' analyzes a user's transaction history, spending patterns, and income to:

- Provide personalized financial insights.
- Predict upcoming bills.
- Forecast cash flow.

Users can also set savings goals. If authorized by the user, the AI can make automated micro-transfers from their checking to their savings account based on identified surplus cash. The feature also provides a dynamic financial health score with actionable recommendations.

Your Task:

Based on this feature overview, outline your testing approach and design the key test cases you would create to ensure the quality of this **'AI Financial Wellness Coach**' feature.

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2. **Section 2: Mobile App Bug Hunting**
Task:

Install **Jumia** mobile app on a smartphone (Android or IOS) Explore the app and identify and document 5 bugs you found.

3. **Section 3: API Automation**
   Scenario:

   Using any programming language ex: Java with Rest Assured, , design and implement a small suite of automated API tests for a user management workflow using the public API available at https://reqres.in/
   Task:

   - Create User: POST /users (with name and job). Capture the id from the response.
   - Update User: PUT /users/{id} (using the id from step 1, update the job).
   - Get User (Verify Update): GET /users/{id} (verify the job was updated).
   - Delete User: DELETE /users/{id}.
   - Get User (Verify Deletion): GET /users/{id} (verify user is not found, e.g., 404).

   Focus on:
   Extracting data from one response and using it in subsequent requests.

   Deliverables:

   - The automation can be performed using any popular test automation framework
   - A brief explanation of your approach and the tools used.
   - GitHub Repository Link: Contains the source code, brief documentation/readme
   - Test Report: Using Allure, Extent, or another reporting tool to show test execution results. (Bonus)