

Overview

This assignment is designed to evaluate your technical skills, decision-making, and approach to solving integration challenges. We've intentionally kept the requirements open-ended to give you the freedom to showcase your expertise and creativity.

Objective

Build a simple synchronization system that keeps [Cases \(projects\)](#) in sync between two systems:

- **System A:** Intempus, using a provided test account and our [API](#). You can find the credentials on the other attached file, and you can find your API key when you login on the settings page of Intempus.
- **System B:** A system of your choice (this can be a file, a mock API, a database etc.)

Your solution should:

- Detect changes in the resource on either side.
- Propagate updates to keep both systems synchronized.
- Ensure data integrity throughout the process.

Key points and constraints

- **Blank Canvas:** Aside from the requirements below, you are free to make your own architectural and design decisions.
- **Technology Constraints:**
 - Use **Python** for the implementation.
 - Use pytest for testing.
- **Testing:**
 - Your solution should be thoroughly tested, covering both typical and edge cases.
 - Use pytest to write clear, maintainable, and meaningful tests.
 - We will pay close attention to the quality, coverage, and clarity of your tests as part of our evaluation.
- **Time Expectation:**
 - Aim to complete the assignment in **3 hours**.
- **Submission Format:**
 - Submit your solution as a public code repository (GitHub, GitLab, etc.).
 - Include clear instructions on how to build, run, and test your solution.
 - Provide a brief README explaining your approach and any trade-offs or assumptions.

Evaluation Criteria

- Code quality, structure, and readability
- Thought process and architectural decisions

- Correctness and robustness of synchronization logic
- Thoroughness and quality of tests
- Clarity of documentation and instructions

There are no hidden requirements or tricky edge cases - focus on demonstrating your best work. If you have any questions or need clarification feel free to reach out.