



Frontend technical test

Project Overview

Design and implement a scalable, real-time Kanban board application for managing candidate workflows, demonstrating your technical expertise and problem-solving approach.

The project you will start with is based on the stack that you would use if you join us.

Backend	Frontend
Elixir	React
Phoenix	Typescript
PostgreSQL	Vite / Vitest

Deliverables

Please submit your work as a Git repository that includes your complete implementation, comprehensive README documentation detailing your approach, a test suite demonstrating the functionality, with an optional live demo URL where we can see the application in action.

Time Management

While we appreciate thoroughness, focus on delivering a functional core solution first, then enhance with additional features as time permits. Quality over quantity is valued.

Notes

- Feel free to make assumptions where requirements are unclear, but document them
- Innovation in your approach is encouraged
- Consider real-world usage scenarios
- Focus on maintainability and scalability
- Document any known limitations or areas of improvement



Not all upcoming requirements have to be implemented; you can detail your approach in a document (README, Notion, etc...)

Requirements

1. Basic Functionality

- Implement drag-and-drop functionality for cards:
 - Within the same column
 - Between different columns
 - With proper handling of a11y
- Ensure proper handling of card positioning and ordering
- Implement real-time synchronization between users

2. Performance Optimization

- Centralized cache with optimistic and atomic updates
- Design for scale (DOM size, minimum re-renders, hours of usage without a reload, ...):
 - handle thousands of candidates per column efficiently
 - handle hundreds of operations made by concurrent users

Evaluation Criteria

Code Quality & Architecture

- Maintainable code with the use of appropriate design patterns
- Test suite with high coverage and great balance between unit & integration tests
- Reasonable usage of external libraries
- Clear, atomic commits with meaningful messages

Technical Documentation

Detailed README including: Setup instructions (If there is no live demo URL provided, we should be able to set up and run the application within a minute.), architecture overview, technical decisions and trade-offs, future improvements, etc...