



# PHP Assessment

## Objective

This assessment aims to gauge your development skills with the focus being on back-end using PHP. We will be paying attention to your approach to solving the problem, the structure of your code, and adherence to best practices and design principles.

If you have any questions, please feel free to ask. It's part of the assessment.

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## The Problem

Temper has just optimized the onboarding flow. After signing up for an account, the user has to complete a series of forms to complete their account.

You can see a conceptual [Onboarding Flow](#) to get an idea.

The current steps in onboarding are:

1. Create account - 0%
2. Activate account - 20%
3. Provide profile information - 40%
4. What jobs are you interested in? - 50%
5. Do you have relevant experience in these jobs? - 70%
6. Are you a freelancer? - 90%
7. Waiting for approval - 99%
8. Approval - 100%

At the moment we don't know how users are performing in the Onboarding Flow. We want to know where many people get stuck, so we can make improvements.

# Business Requirement

We want to see a Retention curve chart that shows how far a group of users (weekly cohorts) has progressed through the Onboarding Flow.

- Get insight of how users flow through the onboarding process
- Get insight in how the onboarding process improves over time
- Get information on where we should improve the onboarding; where do users get stuck?

## Development Guidelines:

### Your solution:

- The chart will similar to the examples provided at the end of this document
- The chart has one line per weekly cohort
- The vertical axis is the percentage of users who have been or are still in this step
- The horizontal axis represents the steps in the Onboarding Flow (based on the onboarding percentage)
- On the first step ( $X=0$ ) 100% of the users are still active, so all charts start at  $X=0$ ,  $Y=100\%$
- Use the data provided in the [CSV](#)
- Won't make use of a database. A proper solution allows that the csv can be swapped with a real database implementation in the future.

### Assumptions:

- The chart is only visible for Temper admins

### Must Haves:

- Back-end in PHP producing JSON responses to be consumed by the front-end
- Clean, maintainable, and **SOLID** code
- Represent the data in web front-end in a chart using Highcharts
- At least 50% test coverage on business logic
- Clear setup instructions using nginx, php -S or artisan serve
- Upload the results to github/bitbucket (ensure the repo is publicly accessible)
- Supply a screenshot of the final result in the git repo
- Keep it simple; you should be able to finish the assessment within 4 hours

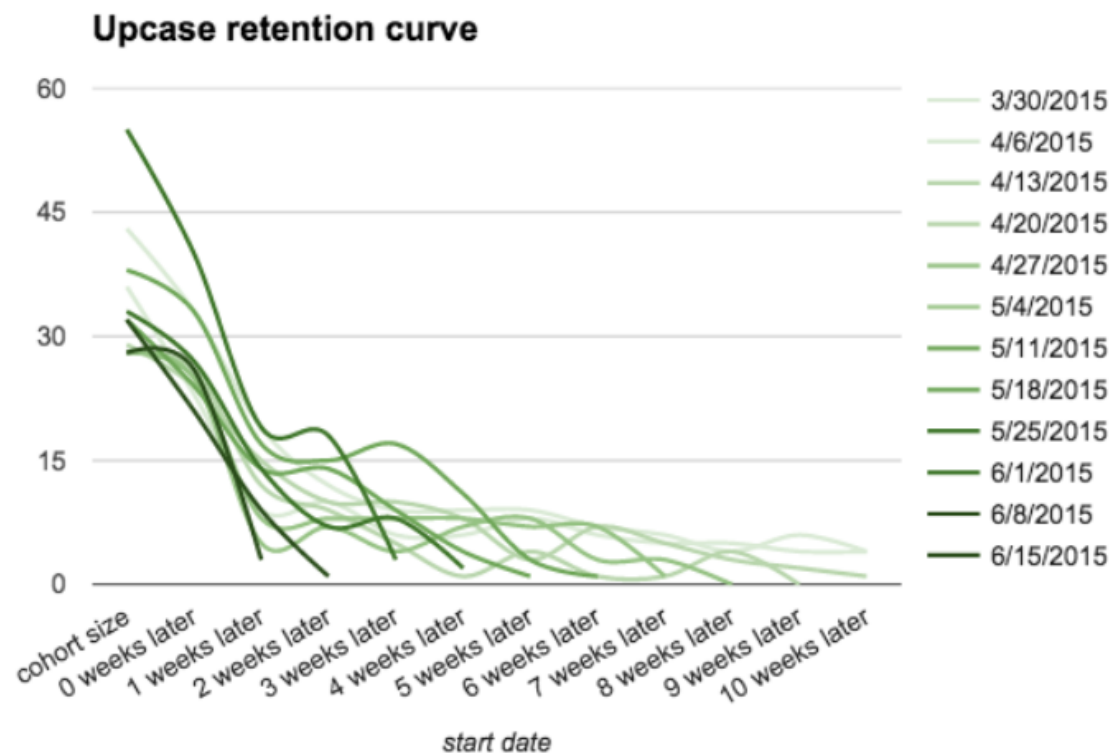
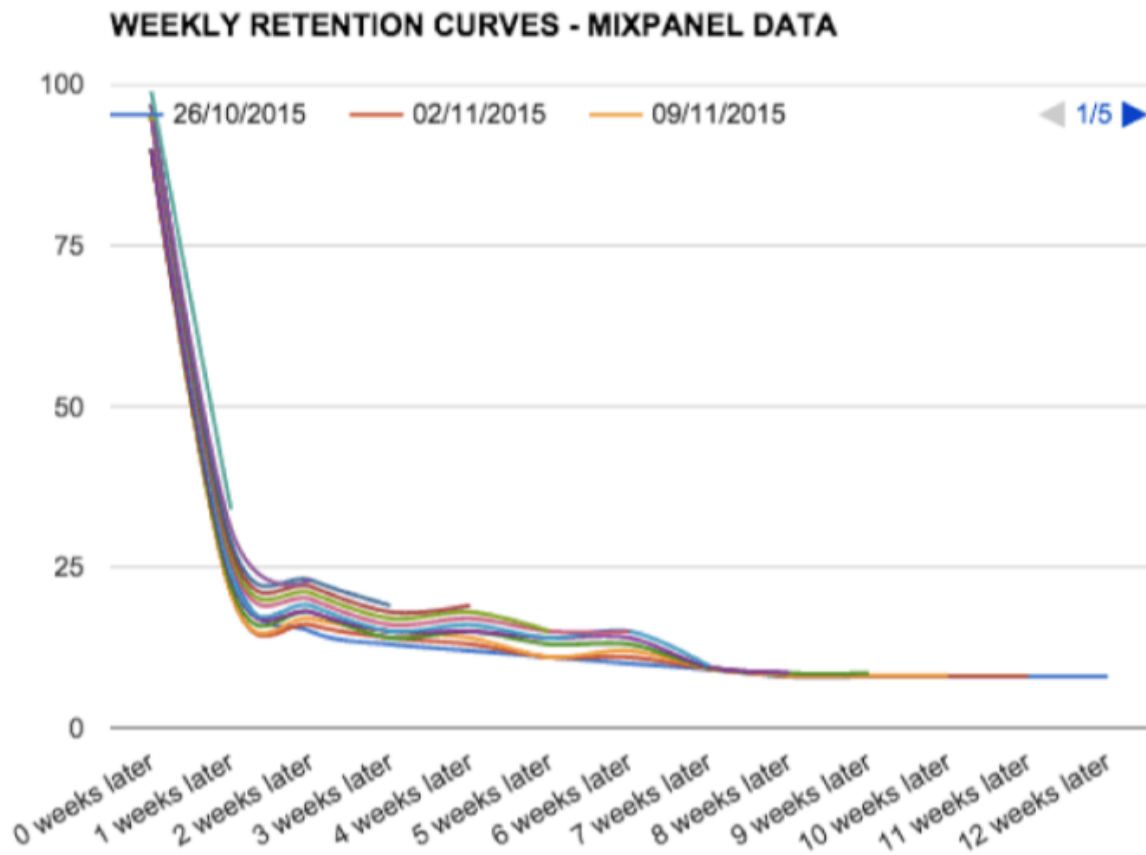
### Bonus Points for:

- Use VueJS for front-end

### Out of Scope:

- Login system
- Any of the screens defined conceptual Onboarding Flow mentioned earlier
- Eye candy

Examples of Retention curve charts:



# Scorecard

	Reviewer 1 Score	Reviewer 2 Score	Total
The result is correct			
The project is easy to install			
Clean Code			
Test-driver approach (both unit & integration)			
SOLID			
Abstraction			