EXERCISE

One of the most frustrating things about the lettings process for tenants is the affordability checks. Usually this is done after the tenant has viewed multiple properties, selected one and paid a security deposit. If the tenant fails the affordability check they will not be allowed into the property and will need to restart their search.

In order to ease this frustration we want you to build a service that allows tenants to carry out an affordability check against a list of properties.

A tenant is able to afford a property if their monthly recurring income exceeds their monthly recurring expenses by the total of the monthly rent times 125%.

You have been provided with:

1. A file containing a list of properties and their monthly rate, see *files/properties.csv*, and
2. A sample bank statement to be used as the input for the tenant, see *files/bank_statement.csv*. For the purposes of this exercise all bank statements will have the same structure, date format and payment types.
3. A skeleton Symfony project containing the above files and some initial implementation. You may build on top of this project or start from scratch.

The service should take both files as input and output the details of all properties that the tenant can afford. You can build this as a command line or (very basic) web interface.

ASSESSMENT CRITERIA

Your solutions should demonstrate an ability to:

- Write clean, maintainable code (including separation of concerns and data modeling)
- Verify the correctness of programs using tests

Note that building a solution that copes with every possible scenario is outside of the scope of this exercise. We're more interested in your approach to the problem and implications of that approach.

SUBMISSIONS

Please return your code in an email as a zip file or upload your code to a service such as DropBox and send us a link. Your solution should include a README file that outlines any assumptions and design decisions you made, and explains how the code can be built and run. You might also comment on the limitations of your solution and discuss any potential improvements.

Feel free to get in touch if you have any questions.