Factor 3 back end developer: Test

factor³
APPLIED CREATIVITY

Factor 3 Coding Exercise

Back End Developer project

This task is designed to provide insight in to how you would approach a project, the cleanliness of the code produced, how creative you are, your coding methodology, your ability to work within the constraints of a framework and how you approach general coding problems in PHP.

Project specifics

Using the CodeIgniter framework, you should demonstrate how you would develop a system for manually adding farmers and the details of their associated livestock into a records system.

The system should be built to contain the following information:

- Farmer Records – Should contain a farmer name and county.
- Farmer Stock – Should contain a cow's name and its' average daily milk output
- Each cow should 'belong' to a farmer
- Each cow can belong only to one farmer

The system you develop should also allow for:

1. Listing all the farmers along with their stock
2. Forms to add farmers and their stock
3. Top 10 list of farmers sorted by the average daily milk output
4. Top 10 list of farmers sorted by the combined weekly milk output
5. Top 5 list of cows with the highest weekly milk output

We cannot answer any questions about this task. You should be creative, thorough, and follow best practice. If you have to make any assumptions, please detail these in your response.