

## Technology Assessment –Software Engineer

Thank you for taking the time to interview with LPG. Our commitment is to ensure we hire at the highest standards as well ensuring that you understand what would be required within the role means that we incorporate a technical task as part of the process. The aim of this task is to assess your problem solving approach, ability to write working code and see the way you structure your code.

### The Task

Create a small product management application that meets the user stories below.

Sample products and categories have been included with this test, in your solution please store these in a persistence layer.

We use React and Java at Go City so if you do join us, these are the languages you would use so we would love to see these used in this task. However, we want to set you up for success, so, where your current in depth knowledge for both the FE and the BE lies elsewhere, please feel free to use any other languages you like. Feel free to write the FE in Angular instead of React for example or the BE in Node or C++. Any other technologies or libraries that you would like to use is completely up to you.

Please include a README explaining how to start your solution and your coding/architectural choices.

- As a user, I want to see all products
- As a user, I want to be able to list the products in a UI
- As a user, I want to be able to sort the products by Name
- As a user, I want to be able to filter by Category

### Extra user stories:

If time allows, please pick up at least one of these extra user stories (choose these at your own discretion)

- As a user, I want to page results (5,10 and 20)
- As a user, I want to be able to add a new product

- Challenge: Add validation so that the 'Last Purchased Date' cannot be set to be less than the 'Creation Date'

- As a user, I want to be able to update a product
- As a user, I want to be able to delete a product

Feel free to build beyond the above stories. For any uncompleted elements of the task due to time restraints, you can explain how you would complete it in your README.

Once finished, please share the code via Github or equivalent with your Leisure Pass HR contact.

If you have any queries in relation to the task please feel free to contact us at any stage. Please ensure your coding style is consistent and tidy and that you lint your code. If the fundamentals of the coding task are there, functioning and clean we'd love to meet face to face.

Wishing you all the best and look forward to chatting soon!