

hospitality software solutions TM



Developer Exercise

Introduction

We're excited that you're at the next interview stage.

This stage requires that you complete a programming exercise. This is so that we can see where you'll fit into our team and to show us your development strengths.

The exercise, including all source code, database code and other documents should be delivered (by email) to your contact at ResRequest, before the noted deadline.

Objective

Create a basic reservations system using PHP, HTML, CSS and JavaScript.

System requirements

Minimum viable product

At minimum, the system must consist of the following:

- Data entry forms (dates, number of rooms, name, etc.) for creating a reservation.
- Storage of the data input to a MySQL / MariaDB database.
- A search form to find reservations in the database

Do not use any large frameworks to complete this task. Smaller support libraries, for example jQuery, are fine. If any third party code or libraries are used this should be clearly stated in your documentation.

Additional features

Some additional, optional items you may wish to include to show off your skills:

- Form validation
- AJAX
- Responsive design
- Object oriented code
- Use source control to track your progress
- Anything else that takes your solution to the next level

Documentation

The following must also be included:

1. A short introduction explaining what has been implemented, the architecture chosen, how this architecture choice affected the implementation
2. A database diagram
3. A process flow diagram

Evaluation

You will be evaluated on:

- Code consistency
- Code layout
- Comments
- Database design and implementation
- Security concerns
- Abstraction and optimisation of code
- Choice of architecture, libraries, etc.

Deliverables

This is intended to give us an idea of your PHP and general development experience. While the system needs to be functional as defined above, it is not expected to:

- be of practical use as a system
- be fully debugged

The following must be delivered:

- All source code
- A database dump of whatever is required to demo the exercise
- All required documents. These can be in PDF, JPG or PNG format.