

MHP Software S.L.

Knowledge Test. Developer.

Test definition

The test consists in the creation of a mobile application compatible with Android and iOS. The aim of the test is to ensure that the candidate has a minimum of technical knowledge when creating a multi-platform mobile application.

Technologies to use?

Typescript+Angular must be used with the Apache Cordova framework. The backend of the mobile application should use Node.js and a MongoDB database.

Optionally, we would like to test a minimum knowledge of C# by creating a very simple application that the mobile application consumes. The position to be covered may have to implement some small web services in an application already developed in C# to be used by the mobile application. But this doesn't exclude the possibility of being selected.

Functionalities?

The functionalities to be developed are the following:

- It is a mobile application related to a parking place.
- It has to register and display: entrance and exit of the car of one user and its geolocation.
- (Optional) It is considered that the user data (name, surname, contact data, model and license plate of the car) are stored in an external application developed in C#, which could perform CRUD operations to handle these data and use them in the mobile application.

Requirements

Must-have

- The mobile application must be implemented using Typescript+Angular, Node.js, MongoDB.
- Clean and intuitive UI.
- The result must be a fully functional, robust and optimized software.
- Clean code and well structured.
- Usage of the last versions of the different frameworks.

Optional

- External application developed in C# to manage the user data.
- Tests.
- Proposals of alternative technologies, tools, practices,... This can be sent together to the result of the test in plain text.
- Any extra functionality.

If the deadline cannot be met, the cause must be justified by mail and before the deadline defined.

In no case will be considered the solutions sent outside the deadline established.

Questions

To notify a delay and agree on a new deadline, please write as soon as possible to Aguilar-Undiano@mhp-net.de.

If you have any question regarding the test, please write to the following addresses (all of them):

- Aguilar-Undiano@mhp-net.de
- rosales-gonzalez@mhp-net.de
- morales@mhp-net.de