iOS DEVELOPMENT

Congratulations! You are through to the next round of the application process at DTT!

During this round, we would like you to participate in an iOS test. Through this test, you should demonstrate that you are capable to contribute on a professional level to DTT and her
clients on a professional level. We work for strong international brands, such as ING, Philips, Rabobank, FOX Sports and KPMG.

Detail, quality of deliverables and going the extra mile to satisfy the customers are crucial. This is what DTT stands for. This is also what we ask from you during the test.

THE TEST

DTT has a successful app for iOS and Android. The 'RSR Pechhulp' app. The function of the app is to help people with vehicle issues. It locates your device and contacts a provider to come to your location and offer assistance. The goal of this test is to create a replica of the live version. Use the live version as an example for what your test should look like as we will compare your version to the live one. In text below you'll find the briefing:

Briefing
1. Download the app
2. The iOS version of the RSR Pechhulp app is live in the app store. The goal of this test is to rebuild the live version. **Use the live version** as the main guideline of the project as your results will be compared to it.
3. All required resources can be found in the respective folders.
4. <u>This project is to be written in Swift and designed implemented using the interface builder.</u>
5. Marks will be awarded for following Swift code conventions and maintaining a clean, well organised project. A guideline can be found at:
    a. https://github.com/raywenderlich/swift-style-guide
    b. https://swift.org/documentation/api-design-guidelines/

6. For references please use the Swift Programming Manual:
     a. https://developer.apple.com/library/content/documentation/Swift/Conceptual/Swift_Programming_Language/index.html
7. When you have completed the test to the best of your abilities, please send your project files in a .zip folder.

Extra features for this app solution are not needed, unless the checklist or any evaluation criteria require these. We advise you to focus on the above written functionality elements. You can find the checklist in the attachment. Furthermore, is it important to keep track with the evaluation criteria on which your test will be judged.

Criteria	Maximum score
UI	
All design elements and functions are used and implemented correctly	5
Responsiveness, thus displaying correctly on a variety of resolutions	5
FORMAT	
App contains the correct texts (compare with the App-/Playstore version)	5
Evaluate the app's performance	5
STRUCTURE	
Clear directory (package) structure	5
Component indents	5
Single Responsibility	5
Code commenting	5
LOGIC	
Representative names for variables and/or fields	5

Design patterns (and used correctly) eg. MVP, holders, etc	5
Permission requests at run time (GPS usage etc.)	5
Boiler plate code	5
Maximum score	**60**

GUIDELINES & CHECKLIST

To successfully complete the iOS test, make sure the points below are all present in your test. Your test result has to look exactly like the version available in the app store.

Functional requirements

1. Screens
    a. Main menu
    b. Map
    c. About
2. Main menu
    a. Displayed after the app is launched
    b. Over RSR (About button) that takes the user to the about page
    c. RSR Pechhulp button that takes the user to the map
3. Map page
    a. Shows a **marker** at the current user location on the map
    b. The app uses **GPS** to get the current user location
    c. **GPS off?** The user will be alerted to turn it on.
    d. **Disabled GPS / Internet permissions?** The user will be alerted to turn them on
    e. **No Internet access?** The user will be alerted
    f. A blue **callout** contains details about the user location:
        i. Street
        ii. Street number
        iii. ZIP Code
        iv. City
    g. When the 'Bel nu' button is pressed:, a popup appears, telling the user to remember the location. Pressing the button in this popup will call the customer service number of RSR.

4. About
    a. The 'Over RSR' page has information about the current version of the RSR app, like the owner, involved parties and development.
    b. When the links are tapped, they should open the browser at the correct locations

Questions?

If you have any question regarding the requirements of the assignment, or if you are stuck on a problem for too long, please don't hesitate to contact us.

More DTT

Feel free to have a look at all our apps at: https://en.d-tt.nl/app-developer-amsterdam.