**Spectrum Test**

The purpose of this test is to evaluate technical skills for Mobile Developers. The test must be a C# project created with Xamarin Native (Android or iOS, **NOT Xamarin.Forms**) using MVVM pattern preferably. The solution test (along with any other resources) must be submitted compressed in a zip folder. Any repository link can be submitted optionally but the solution that is in the zip folder will be considered as part of the test.

The candidate will have to create at least the following three screens:

1. Sign In
2. Create Account
3. Account Creation Confirmation.

All screen must be created with Activities (Android) or View Controllers (iOS). Modals **must not** be used for this purpose.

A mockup has been attached along with this document for illustration purposes. The screens details and rules are specified below:

Sign In

The Sign In screen will have two text entries and two buttons:

*Text Entries*

* Username & Password

*Buttons*

* Sign In
* Create Account

*Rules*

* Sign In button must not be enabled until username and password entries are populated
* Characters in password entry must be typed securely.
* If the account doesn’t exist in local storage, an error message should show up on the screen, specifying that the account doesn’t exist.
* If the password doesn’t match, an error message should show up on the screen specifying that the password is incorrect.
* If the user account exists and the password matches, a success message should show up on the screen (message up to the candidate).

Create Account

The Create Account screen will have four text entries, one up to the candidate and a button.

*Text Entries*

* First Name
* Last Name
* Phone
* Password

*Buttons*

* Create Account

*Up to candidate (UX Component => i.e. DatePicker, TextView, UITextView, etc..)*

* Service Start Date

*Rules*

* The Create Account button will be enabled until all the fields are populated with values.
* First Name and Last Name must not have these special characters (!@#$%^&)
* Password must have from 8 to 15 characters
* Password must have at least one lowercase letter
* Password must have at least one uppercase letter
* Password must not have repetitive any sequence of characters (i.e. “abcabc”, “111”, “12ab12ab” are not allowed)
* Phone field must use the following format => (XXX)-XXX-XXXX
* For Service Start Date, a past date is not allowed.
* For Service Start Date, a value more than 30 days into the future should throw an error stating that is too early to create an account (i.e. Today - 10/03/2020 - Selected Date 11/04/2020 This scenario should throw an error).
* Once the button is tapped, the app must save the user’s input data in the local storage of the device. The candidate can choose whatever is feasible for this rule.

Account Creation Confirmation

This screen displays a message centered vertically and horizontally that the account was successfully created.

*Rules*

* If the user tries to go to the previous screen, they should land on the Sign In screen, instead of the User Creation account.
* If the user taps in the Log In button, it must redirect to the Sign In screen.