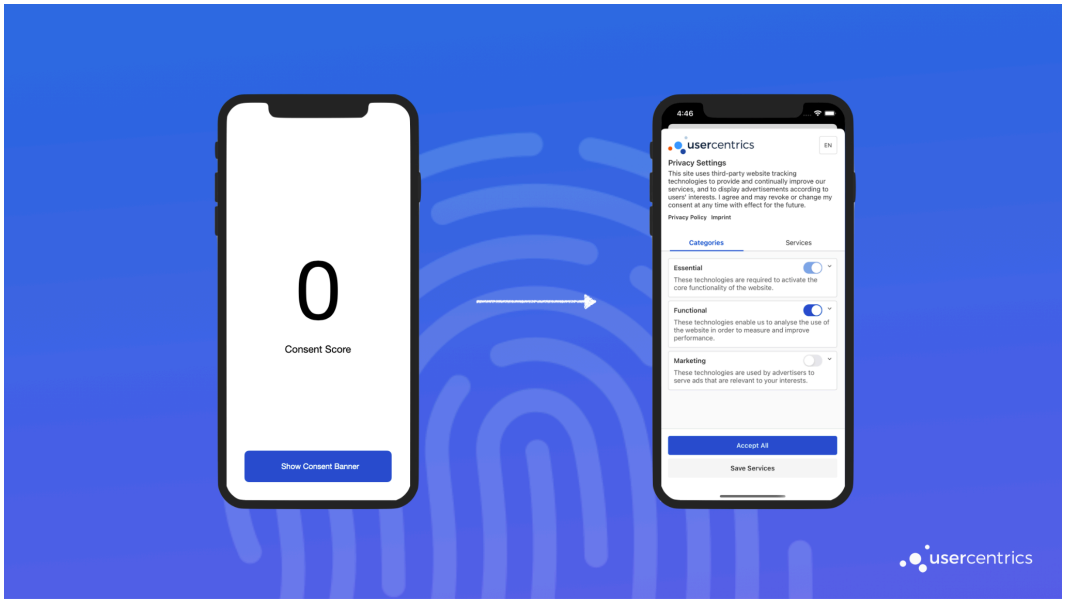
Usercentrics App Challenge

Hello!

As part of your application process for the Apps Team, we would like to give you a small challenge, for you to showcase your skills and give you an introduction to our SDKs.

The Challenge

1. Create an app that can show our banner by implementing our “out of the box” solution using the Usercentrics UI framework.
2. Create a calculator that outputs the *virtual cost* of giving consent to the app.



Your Tools

- Usercentrics Apps Documentation
- SettingsID: “gChmbFIdL”

Our Recommendations

- Complete this challenge in one of the following two platforms: iOS (Swift) or Android (Kotlin).
- Focus on showing your coding skills, knowledge on patterns and clean code.
- Don’t tackle every edge case, instead comment what needs to be done. e.g. offline handling, error handling, initialisation errors, etc.

Briefing

Following our documentation, create an application that can present our Consent Banner, when a user presses a button.

Use the Banner UI callback value **userResponse** to get the **consents**. You will find the properties **status** (given consent) and **templateID** (service ID) in this object.

To calculate the cost, use *getCMPData* to query the **Services** that are configured in the banner. Each service will contain a property called **dataCollectedList**, which declares the *data type* each service collects.

e.g. First Name, IP address, Bank Details, etc.

Use the following table to calculate the cost for each service **that was consented**:

Data being collected	**Cost**
Configuration of app settings	1
IP address	2
User behaviour	2
User agent	3
App crashes	-2
Browser information	3
Credit and debit card number	4
First name	6
Geographic location	7
Date and time of visit	1
Advertising identifier	2
Bank details	5
Purchase activity	6
Internet service provider	4
JavaScript support	-1

In addition to the base cost, implement the following **rules** that impact the cost of each service:

Rule 1: Banking snoopy

> If a service declares: *Purchase activity, Bank details* AND *Credit and debit card number.* Increase the cost by **10%.**

Rule 2: Why do you care?

> If a service declares: *Search terms, Geographic location AND IP Address*. Increase the cost by **27%.**

Rule 3: The good citizen

> If a service declares 4 or less "data types". Decrease the cost by **10%.**

When you have the results, print in the console the cost for each service and the total.

e.g.
Google Analytics = 10
Paypal = 7
Firebase = 3
Total = 20

As a **bonus**, display the total cost on a label.
e.g. as shown in the image above.

In this exercise, the list of *data types* is small, but please consider implementing a solution that can also scale easily to hundreds of types.

Your Solution

Upload your solution to a git repo and send us a link. Consider adding a README to clarify environment requirements or instructions to run the project.

If you have any question, please reach us @ team-mobile@usercentrics.com