Code Samples

Code Samples

Objective C

```
/*
* Very Important Note:
* This code is a sub set of LemonBank sample app. Please see the LemonBank source code
* for the full source.
* */
@implementation LBProfileController

- (instancetype) init
{
    self = [super init];

    _sessionID = nil;
    static dispatch_once_t configureOnce = 0;
    __block BOOL configurationResult = false;

    _profile = [THMTrustDefender sharedInstance];

    //The [_profile configure] method is effective only once and subsequent calls to it will be ignored.
    // only once, although using a dispatch_once is not technically required.
    dispatch_once(&configureOnce,
                  ^{
                      //Configuration only fails due to programming error, therefore we get the result of
                      configurationResult = [_profile configure:@{
                                            THMOrgID : @<ORG_ID>,
                                            // (OPTIONAL) Set the connection timeout, in seconds
                                            THMTimeout : @10,
                                            // (OPTIONAL) If Keychain Access sharing groups are used, spe
                                            THMKeychainAccessGroup: @"8VDTV2QZMS.com.threatmetrix",
                                            // (OPTIONAL) Register for location service updates
                                            // Note that this call can prompt the user for permissions. T
                                            // registerLocationServices will only activate location servi
                                            // granted. But in this case, we want the request to happen
                                            THMLocationServicesWithPrompt: @YES,
                                            //(OPTIONAL) Callback block  will be called even if profiling
                                            THMCallbackOnFailure: @YES
                                            }];
                      NSAssert(configurationResult ,@"Configuration failed");
                  });

    return self;
}

-(void)doProfile
{
    // (OPTIONAL) Retrieve the version of the mobile SDK
    NSLog(@"Using: %@", self.profile.version);

    NSArray *customAttributes = @[@"attribute 1", @"attribute 2"];

    self.loginOkay = NO;

    // Fire off the profiling request.
    THMStatusCode status = [self.profile
                            doProfileRequestWithOptions:@{
                                                          // (OPTIONAL) Assign some custom attributes to
                                                          THMCustomAttributes: customAttributes
                                                          }
                            andCallbackBlock:^(NSDictionary *result)
                            {
                                //Get the session id to use in API call (AKA session query)
                                self.sessionID = [result valueForKey:THMSessionID];

                                THMStatusCode statusCode = [[result valueForKey:THMProfileStatus] integer
                                // If we registered a delegate, this function will be called once the pro
                                if(statusCode == THMStatusCodeOk)
                                {
                                    // No errors, profiling succeeded!
                                }
                                NSLog(@"Profile completed with: %s and session ID: %@", statusCode == THM
                                      : statusCode == THMStatusCodeNetworkTimeoutError ? "Timed out"
                                      : statusCode == THMStatusCodeConnectionError     ? "Connection Erro
                                      : statusCode == THMStatusCodeHostNotFoundError   ? "Host not found
                                      : statusCode == THMStatusCodeInternalError       ? "Internal Error"
                                      : statusCode == THMStatusCodeInterruptedError    ? "Interrupted"
                                      : "other",
                                      [result valueForKey:THMSessionID]);
                                [self setLoginOkay:YES];
                            }];

    if(status == THMStatusCodeOk)
    {
        // The profiling successfully started
        NSLog(@"Profiling started successfully");
    }
    else
    {
        // We errored out, allow the login to proceed
        // The most common case of this error is THM_NotYet which means another profiling is in progress
        self.loginOkay = YES;
    }
}

@end
```

Swift 3

```
/*
* Very Important Note:
* This code is a sub set of LemonBank sample app. Please see the LemonBank source code
* for the full source.
* */
class LemonBankProfileController: NSObject
{
    var profile: THMTrustDefender!
    dynamic var loginOkay: Bool = false
    var sessionID: String = ""

    override init()
    {
        super.init()

        //Get a singleton instance of TrustDefenderMobile
        profile = THMTrustDefender.sharedInstance() as THMTrustDefender

        //Configuration only fails due to programming error, therefore by using an assert here we make su
        assert(profile.configure([
                                        THMOrgID:<ORG_ID>,
                                        // (OPTIONAL) Set the connection timeout, in seconds
                                        THMTimeout : 10,
                                        // (OPTIONAL) If Keychain Access sharing groups are used, specify
                                        THMKeychainAccessGroup: "8VDTV2QZMS.com.threatmetrix",
                                        // (OPTIONAL) Register for location service updates
                                        // Note that this call can prompt the user for permissions. The r
                                        // registerLocationServices will only activate location services
                                        // granted. But in this case, we want the request to happen
                                        THMLocationServicesWithPrompt: true,
                                        //(OPTIONAL) Callback block  will be called even if profiling fai
                                        THMCallbackOnFailure: true
                                        ]),
                "Configuration failed")
    }

    func doProfile()
    {
        // (OPTIONAL) Retrieve the version of the mobile SDK
        NSLog("Using \(profile.version)")

        let customAttributes : [String : Array<String>] = [THMCustomAttributes: ["attribute 1", "attribut

        loginOkay = false

        // Fire off the profiling request.
        let status: THMStatusCode = profile.doProfileRequest(options: customAttributes, andCallbackBlock:
            {(result: [AnyHashable : Any]?) -> Void in

                let results:NSDictionary! = result! as NSDictionary
                let status:THMStatusCode  = THMStatusCode(rawValue:(results.value(forKey: THMProfileStatu

                self.sessionID = results.value(forKey: THMSessionID) as! String
                if(status == .ok)
                {
                    // No errors, profiling succeeded!
                }

                NSLog("Profile completed with: %@ and session ID: \(self.sessionID)",
                        status == .ok                  ? "OK"                   :
                        status == .networkTimeoutError ? "Timed out"            :
                        status == .connectionError     ? "Connection Error"     :
                        status == .hostNotFoundError   ? "Host Not Found Error" :
                        status == .internalError       ? "Internal Error"       :
                        status == .interruptedError    ? "Interrupted Error"    :
                    "Other"
                )
                self.loginOkay = true
        })

        if(status == .ok)
        {
            // The profiling successfully started
            NSLog("Profiling started successfully")
        }
        else
        {
            // We errored out, allow the login to proceed
            // The most common case of this error is THM_NotYet which means another profiling is in progr
            loginOkay = true
        }
    }
}
```

Swift 2

```
/*
* Very Important Note:
* This code is a sub set of LemonBank sample app. Please see the LemonBank source code
* for the full source.
* */
class LemonBankProfileController: NSObject
```

```
{

    var profile: THMTrustDefender!
    dynamic var loginOkay: Bool = false
    var sessionID: String = ""

    override init()
    {
        super.init()

        struct DispatchOnceTokens
        {
            static var configureOnce: dispatch_once_t = 0;
        }


        //Get a singleton instance of TrustDefenderMobile
        self.profile = THMTrustDefender.sharedInstance() as THMTrustDefender

        //Configuration only fails due to programming error, therefore by using an assert here we make su
        assert((self.profile.configure([
                                        THMOrgID:<ORG_ID>,
                                        // (OPTIONAL) Set the connection timeout, in seconds
                                        THMTimeout : 10,
                                        // (OPTIONAL) If Keychain Access sharing groups are used, specify
                                        THMKeychainAccessGroup: "8VDTV2QZMS.com.threatmetrix",
                                        // (OPTIONAL) Register for location service updates
                                        // Note that this call can prompt the user for permissions. The r
                                        // registerLocationServices will only activate location services
                                        // granted. But in this case, we want the request to happen
                                        THMLocationServicesWithPrompt: true,
                                        //(OPTIONAL) Callback block  will be called even if profiling fai
                                        THMCallbackOnFailure: true
                                        ])),
               "Configuration failed")
    }


    func doProfile()
    {
        // (OPTIONAL) Retrieve the version of the mobile SDK
        NSLog("Using \(profile.version)")

        let customAttributes : [String : AnyObject] = [THMCustomAttributes: ["attribute 1", "attribute 2"

        loginOkay = false

        // Fire off the profiling request.
        let status: THMStatusCode = profile.doProfileRequestWithOptions(
            customAttributes, andCallbackBlock:
            {(result: [NSObject : AnyObject]!) -> Void in

                let results:NSDictionary! = result as NSDictionary
                let status:THMStatusCode = THMStatusCode(rawValue:(results.valueForKey(THMProfileStatus)

                self.sessionID = results.valueForKey(THMSessionID) as! String
                if(status == .Ok)
                {
                    // No errors, profiling succeeded!
                }

                NSLog("Profile completed with: %@ and session ID: \(self.sessionID)",
                        status == .Ok                   ? "OK"                   :
                        status == .NetworkTimeoutError ? "Timed out"            :
                        status == .ConnectionError     ? "Connection Error"     :
                        status == .HostNotFoundError   ? "Host Not Found Error" :
                        status == .InternalError       ? "Internal Error"       :
```

```
                        status == .InterruptedError    ? "Interrupted Error"    :
                    "Other"
                )
                self.loginOkay = true
        })

        if(status == .Ok)
        {
            // The profiling successfully started
            NSLog("Profiling started successfully")
        }
        else
        {
            // We errored out, allow the login to proceed
            // The most common case of this error is THM_NotYet which means another profiling is in progr
            loginOkay = true
        }
    }
}
```