AllWebID Identity Manager

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Multi-Factor Identity Authentication Solution For Web & Mobile Apps

AllWebID Android SDK Manual

Version 1.0

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Introduction

The purpose of this document is to briefly explain the Android AllWebID Identity Manger Software Development Kit (SDK). The document describes the sample application written for the Android platform. This SDK will help developers to quickly integrate AllWebID Identity Manager Application Programming Interface (APIs) with their Android applications, and to offer Multi-Factor Identity Authentication to their clients / end users.

Overview

The APIs provided in the SDK are used to enable secure data exchange between the servers hosting the mobile application and AllWebID cloud based servers. The APIs are organized in groups which are triggered in a particular sequence to accomplish different tasks of the Identity Manager solution, and enable the end users to conveniently use 2-factor authentication. Following are some of the key processes which can be integrated in android applications to enable AllWebID 2-factor authentication service:

1. 2FA Login
2. Registration with AllWebID
3. Enable / Disable 2FA
4. Fingerprint Linking / De-Linking with current device.
5. SMS Authentication for verification
6. SMS Authentication for Cell Phone registration
7. Fingerprint Authentication (Samsung)
8. Enable / Disable trusted device
9. Make current device trusted

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How does Android SDK work?

Following are the steps to use “allwebsecfactor.jar” framework in your application.

1) Copy three files to your project Lib folder.allwebsecfactor.jar, pass-v1.1.0.jar and sdk-v1.0.0.jar.
2) Write internet permission tag on your Manifest file.

```
<uses-permissionandroid:name="android.permission.INTERNET"/>
```

3) Write following import header on your file where you want to use api methods.

```
importcom.allweb.secfactorapi.AllWeb;
importcom.allweb.secfactorapi.AllWebEvent;
```

4) Create object of AllWeb class and set response listener.

```
AllWeballWebObject = newAllWeb();
allWebObject.setAllWebResponsListener(newAllWebEvent(){
        @Override
        publicvoidonAllWebResponseEvent(String eventType, Object... args){

                String callResponse=eventType;

        }
});
```

5) After creating response listener, now you can call methods. For example:

```
allWebObject.GetUserPhoneNumber(APIKey,UserName);
```

6) onAllWebResponseEvent will give response of method in String form. You can use it according to your requirement.

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API Methods Detail:

API Function Name	Parameters	Description	Response
CheckUser2FAMethod()	APIKey, Username	Check user 2nd factor authentication status	True, False, Error code
Activate2FA()	APIKey, Username, Mode	Mode is : • SMS • SMS+ Fingerprint	True, False, Error code
Deactivate2FA()	APIKey, Username,	De-activate 2FA feature against user	True, False, Error code
RegistrationWithAllWeb()	APIKey, Username, secFAMode, secFaStatus, Cellphone	Register a user with AllWebIDcloud	True, False, Error code
GetUserPhoneNumber()	APIKey, Username	Get user phone number	Phone number, Error code
UpdateUserPhoneNumber()	APIKey, Username, Cellphone	Update registered user phone number	True, False, Error code
SendPinBySMS()	APIKey, Username	Send PIN to user by SMS for 2nd factor authentication	True, False, Error code
GetOOBPin ()	APIKey, Username	Get Passcode if exist	Passcode, False, Error code
VerifyOOBPin ()	APIKey, Username, Passcode.	Verify Passcode	True, False, Error code

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VerifySMSPin()	APIKey, Username, Pincode.	Verify PIN sent through SMS	True, False, Error code
SendPinBySMSforCellPhoneRegistration()	APIKey, Username, cellphone, PhoneActivationCode	Send PIN to user by SMS to verify cell phone number.	True, False, Error code
VerifyBySMSforCellPhoneRegistration()	APIKey, Username, PinCode, PhoneActivationCode	Verify PIN to register cell phone number.	True, False, Error code
GetDeviceID()	Context	Get unique device id	DeviceID, Error code
CheckDeviceLinked()	APIKey, DeviceID	Check that device linked with any user	True, False, Error code
CheckUserLinked()	APIKey, UserName	Check user is linked with any device	True, False, Error code
CheckDeviceLinkedWithUser()	APIKey, DeviceID, UserName	Check device is registered with input user.	True, False, Error code
LinkUserDevice()	**APIKey, DeviceID, UserName**	Link device with user name	True, False, Error code
DeleteUserDevice ()	APIKey, DeviceID, UserName	Check device is registered with input user.	True, False, Error code
EnableDisableUserTrustedDevice()	APIKey, Username, isEnabled	Enable and disable trusted device feature against user	True, False, Error code
CheckUserTrustedDeviceStatus()	APIKey, Username,	Getting user trusted feature device status	True, False, Error code
GenerateTrustedTokens()	**APIKey, Username, DeviceID**	**Generate token to make device trusted. You have to save this token on device application data for validating trusted device**	Token, Error code

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API Function Name	Parameters	Description	Response
ValidateToken()	APIKey, Username, Token, DeviceID	You have to get token from device application data and validate it .if token will validate, you can bypass 2fa.	True, False, Error code
Samsung_fingerprintScannerAvailable()	Context	Check fingerprint scanner is available on device.	True, False
Samsung_SamsungFigerprintAuthentication()	APIKey,Context, UserName	Fingerprint authentication	True, False, Error code

API Methods Response:

Response	Description
True	API Call successful or input return result is true
False	Input result is false
ERROR_CODE_100	Authorization failed
ERROR_CODE_101	Empty value
ERROR_CODE_103	Website disabled
ERROR_CODE_104	User not found

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Response	Description
ERROR_CODE_105	Data expired
ERROR_CODE_106	Network error
ERROR_CODE_107	Fingerprint initialization failed
ERROR_CODE_200	Server Not Responding
ERROR_CODE_201	Invalid Result

API Parameters:

Parameter	Description
APIKey	API key is an Integration key which an integrator can get for creating integration
Username	Username of the user using AllWebID2FA service
CellPhone	Cell phone number of the user of using AllWebID 2FA service
SecFAMode	Defines 2nd factor authentication mode: • SMS • SMS+ Fingerprint
secFaStatus	Defines 2nd factor authentication status: • True • False
PinCode	PIN code entered by the user
DeviceID	Unique encrypted id of current device

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Parameter	Description
Token	An identifier to keep track of the trusted device
UserEmail	User Email of the user
Context	You can get the context by invoking getApplicationContext(), getContext(), getBaseContext() or this (when in the activity class)

Please contact us if you have any questions.

E-mail: support@allwebid.com

Website: http://allwebid.com/IdentityManagerFAQs.aspx

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