LIP SDK Design Document

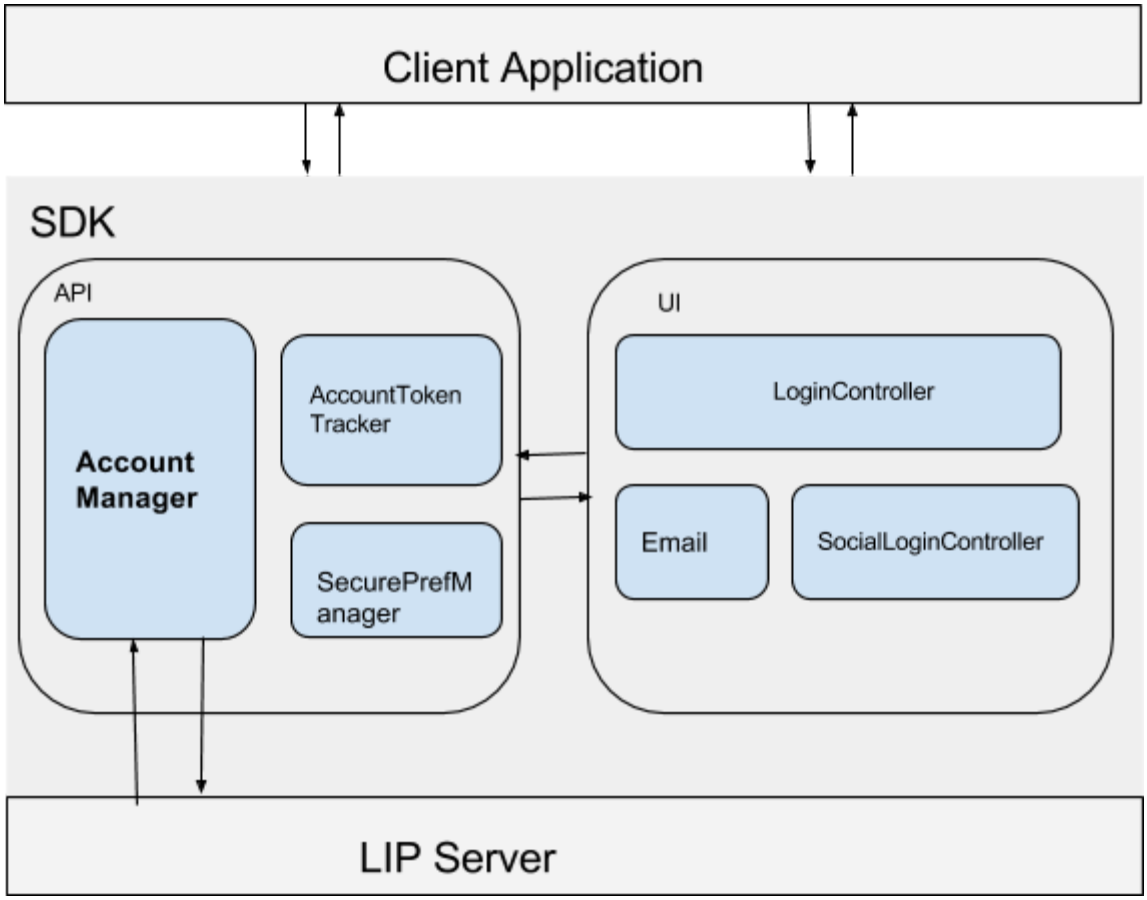
Overview

Purpose of LIP SDK is to provide simplified API and standard UI for all LOGI client applications. It will provide business logic to provide centralized authentication mechanism for LOGI account through email and social. Business logic is completely decoupled with UI so clients can use API directly.

Architecture

SDK contains four sub modules mainly which are completely independent of each other

1. Social
2. Email
3. Token Management
4. Secure preference



Modules & Sub modules

SocialLoginController

Independent component to handle social login mainly google and facebook for now. It can be extended to handle any social login. As all social login clients must implement social client.

LoginController

Main entry point for the LIP UI through which client application can use email and social login functionality. Implemented as singleton to support signIn/SignOut at any point of time.

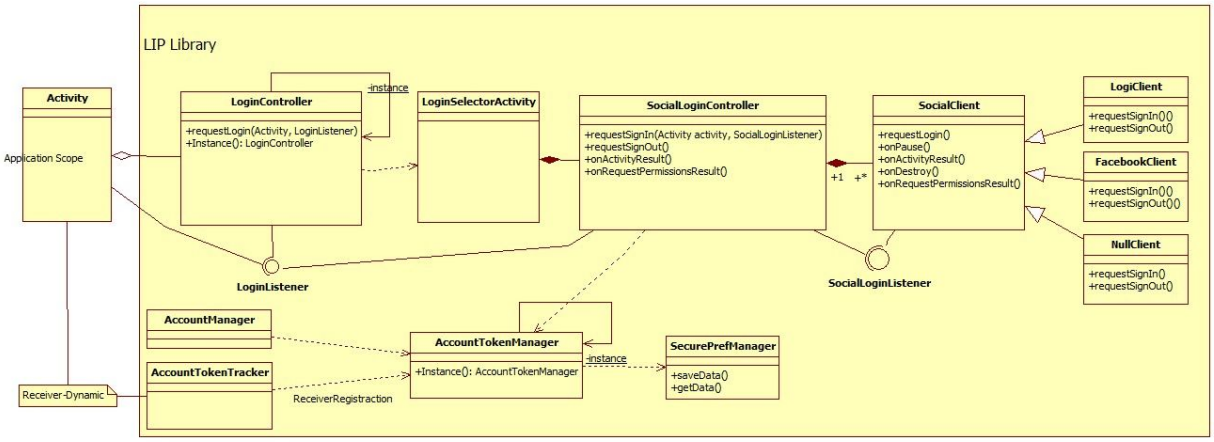
AccountManager

Provides all wrapper API to client application to communicate with LIP server. Application can use API's without using LIP standard UI.

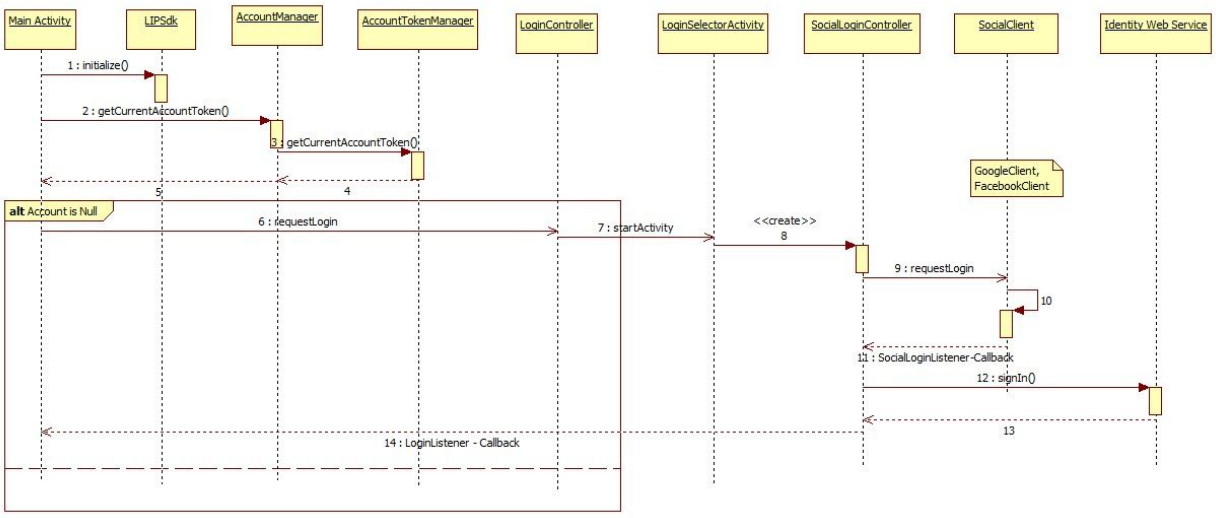
SecurePrefManager

Provides Wrapper API's to save and retrieve data. It supports default android encryption/decryption using android keystore on supported OS versions

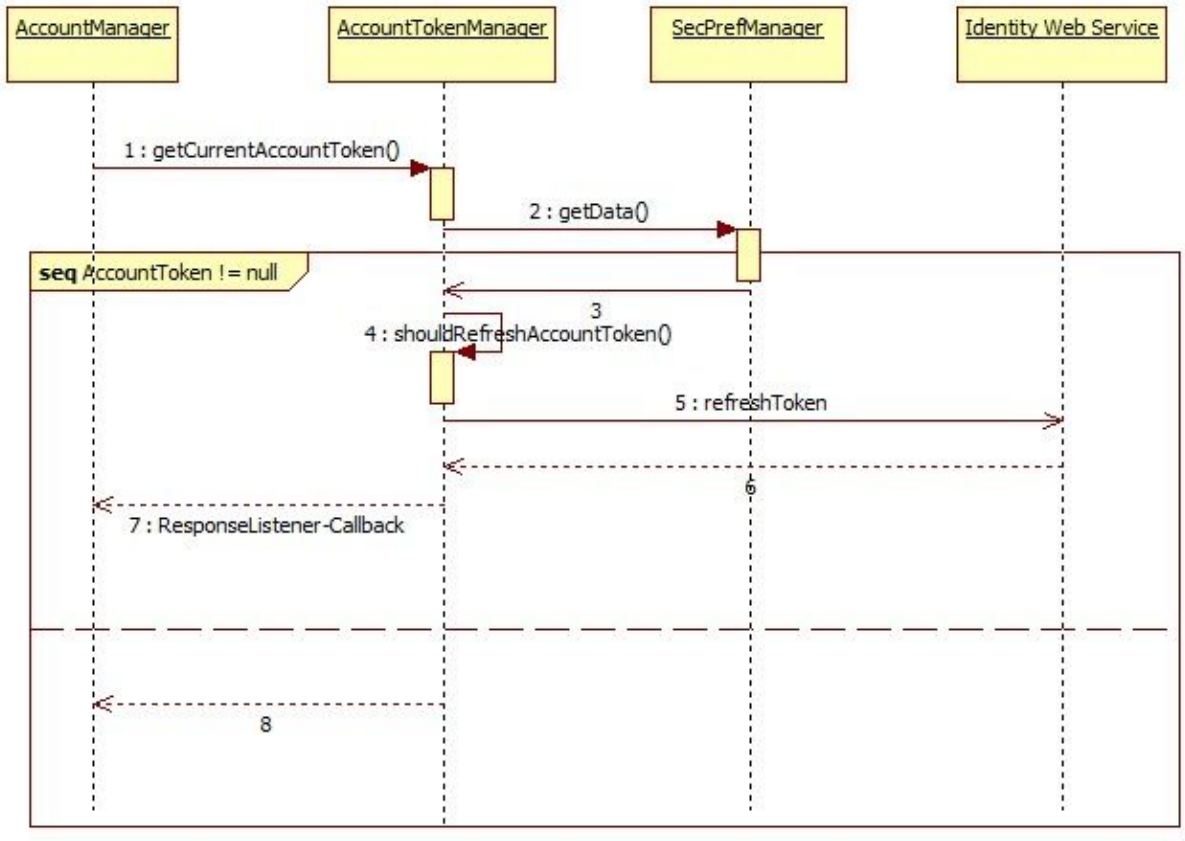
LIP Class Diagram



LIP Initialize & Login Sequence Diagram



LIP Token Refresh sequence Diagram



LIP SDK Integration document

SLIP SDK used gradle script and the detail integration document can be found at here
[Integration Document]

LIP SDK functional Test

SDK functionality can be tested with provided sample application. Developed Unit test cases to validate network wrapper API, encryption/decryption and UI functionality using espresso. Functional test cases are documented for sanity and can be found in docs folder.
URL: [Functional Test cases]