Aries Bifold

Motivation

To create a community around an open source mobile library and app that provides the capabilities to create a React Native app with SSI capabilities.

We want to help tackle difficult issues in mobile and make SSI more accessible to the broader developer community.

Main Goals

Establish a community around the project.

Provide a widely usable, production ready open source mobile agent and tools.

Focus on UI/UX experiences and problems that have gone unaddressed or avoided.

Provide a project that allows the community to tinker and experiment with new ideas and capabilities.

Work in an interoperable way within the community.

Current Status

Working towards a 0.1 status:

Android and iOS feature parity

Main 0.1 features:

- Connections - complete
- Credentials - complete
- Presentations - nearly complete
- Revocation - UI needed
- Messaging - in progress

Demo

demo...

Tech Stack

React Native - large adoption and multi-platform support

Aries Mobile Agent React Native (data components & default UI components)

Aries Bifold app (clone and white-label)

Aries Framework Javascript

rn-indy-sdk (exposing Libindy in a React Native context)

Things we're going after

- Componentization / state management
  - Use within existing applications
  - Clone and white-labelable
- Mediation support (coordinate-mediation protocol)
- Authentication - pin/biometrics
- Multi-ledger support
  - Interim polling multiple ledgers
  - Use of did:indy
  - Push Notifications
- Governance Frameworks - Machine Readable Frameworks
- Credential formats
  - Indy
  - BBS+ and others in the future
- Internationalization
- Cross App wallet/credential communication
- Wallet Synchronization/Backup
- Transport Additions:
  - Bluetooth - in-progress
  - NFC
- Testing - Aries Agent Test Harness (AATH)
- AIP 2.0 support

Contributors

Indicio - coordinating work and contributing efforts in Aries Framework Javascript

Animo - initial efforts, ongoing contributions, especially in Aries Framework Javascript

Absa - rn-indy-sdk efforts and Aries Framework Javascript

And more additional contributors!

Project Links

Repo: https://github.com/hyperledger/aries-mobile-agent-react-native

Aries-Framework-Javascript: https://github.com/hyperledger/aries-framework-javascript

rn-indy-sdk: https://github.com/AbsaOSS/rn-indy-sdk

Participate and join!

Bi-weekly meetings - Wednesday, 11:00 am, Los Angeles

User Group Meetings:
https://wiki.hyperledger.org/display/ARIES/Aries+Bifold+User+Group+Meetings

Rocketchat: https://chat.hyperledger.org/channel/aries-bifold