TrustZone Face Recognition

Shivam Shekhar (ss6960)

…

Ritwik Goel (rg3546)

Estimated Total Hours: 15

Plans (Past Week)

Integrate the Trusted Application with the Android app:

- Combine the UI with the OP-TEE Trusted Application.

- Ensure seamless communication between the non-trusted and trusted worlds. Develop the user interface and facial data handling: Enhance the UI for capturing facial data/registering. Implement secure mechanisms for handling facial data within the TEE.

What Actually Happened

Work completed:

- Completed the Mobile App UI.
- Connected the method chanel and started working on the global platform API integration with OPTEE.
- Successfully completed installing and running the secure storage application on OPTEE.

Major challenges+roadblocks:

- Wrapper for Kotlin to make global platform API calls.
- Integrating opencv with TA.

Attribution: Kotlin API calls.

Plans (Next Week)

- Complete the flow to send the face data from mobile app to secure storage
- Implement the Face Recognition model.

Summary/Overall Progress

- Created the bridge to communicate using the Global Platform API
- Compiled and executed Secure Storage application to read from the FileSystem.