# TrustZone Face Recognition

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**Estimated Total Hours: 9** 



## Plans (Past Week)

Set up QEMU for simulation: Install and configure QEMU to simulate ARM-based environments. Test basic functionalities of the application in the simulated environment. Set up OP-TEE, AppDev Framework, and Android Studio: Install necessary development environments and tools. Ensure compatibility and version consistency between team members.





### What Actually Happened

#### Work completed:

- Did more work on the App for Authentication. Written the code to communicate with Trusted Application (need to test it with TA).
- Explored facial recognition algorithms and will go ahead with either libfacerec or facerec (overhead to be considered while implementing).
- For Platform issue, we will explore containers to run the TA and mobile application together.

Major challenges+roadblocks: Error in running the OP-TEE on GCP VM.

**Attribution:** OP-TEE setup.





## Plans (Next Week)

- Get the OP-TEE running and start writing Trusted Application.
- Code the facial recognition algorithm and compare the overhead.
- Start integrating the mobile application and receive image data.





## Summary/Overall Progress

- Worked on the Mobile Application development
- Wrote the code to send the data from mobile application to the TA.
- Chose the facial recognition algorithm.









