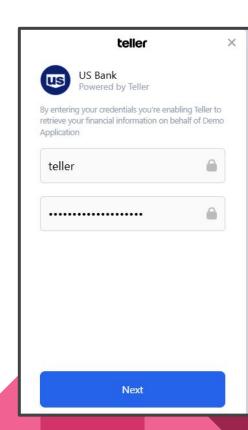
## Sprint Week 2 - Trackify App

Sadiq Al-Humood, Joseph Lee

### **Teller Connect**

- Client-side UI component
  - Users will utilize with it to link bank accounts
  - Handles credential validation
  - Multi- factor authentication
  - Account selection
  - Generates access token used to access user's account (Teller API)
- Current mode: Environment.SANDBOX
  - Mockup data that we want to pull for testing
- For the future: Environment.PRODUCTION
  - Link actual bank account data

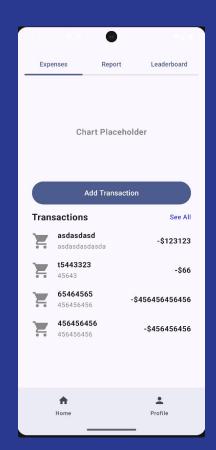


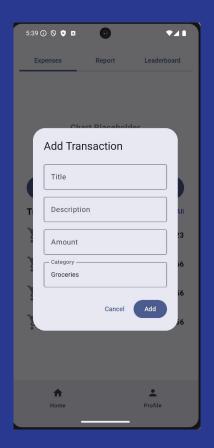
### mTLS Authentication for Teller API

- Firebase Function bridge for API request from Teller
- Firebase config: store private key and certificate
  - Given by Teller API
- TransactionViewModel file in Jetpack Compose
  - Handle proper calling of Firebase Function
  - Error: API request failed; never reached Firebase Function
  - Cannot fetch transaction data

```
const functions = require("firebase-functions");
const fs = require("fs");
const https = require("https");
const axios = require("axios");
exports.transactions = functions.https.onRequest(async (reg, res) => {
   const certificate = functions.config().teller.certificate;
    const privateKey = functions.config().teller.private key;
    const certPath = "/tmp/certificate.pem":
    const keyPath = "/tmp/private key.pem";
    fs.writeFileSync(certPath, certificate);
    fs.writeFileSync(keyPath, privateKey);
    const agent = new https.Agent(
     cert: fs.readFileSync(certPath),
     key: fs.readFileSync(keyPath),
    const accessToken = reg.headers["authorization"];
    if (!accessToken) {
     res.status(400).send("Missing Authorization header");
    const response = await axios.get("https://api.teller.io/transactions", -
     headers: {Authorization: `Basic ${accessToken}`},
     httpsAgent: agent,
    res.json(response.data);
   catch (error)
    console.error(error);
    res.status(500).send(error.message);
```

### **UI Elements**





## For the next 2 weeks...

- Push notifications
- Finalize API integration
- Leaderboard Firebase
- Compose Chart

# Demo!