

Register Attendance QR (Tahawi Institute Register)

Tech

- React Native
- Google sheets API
- MongoDB

Phase 1 - Requirements

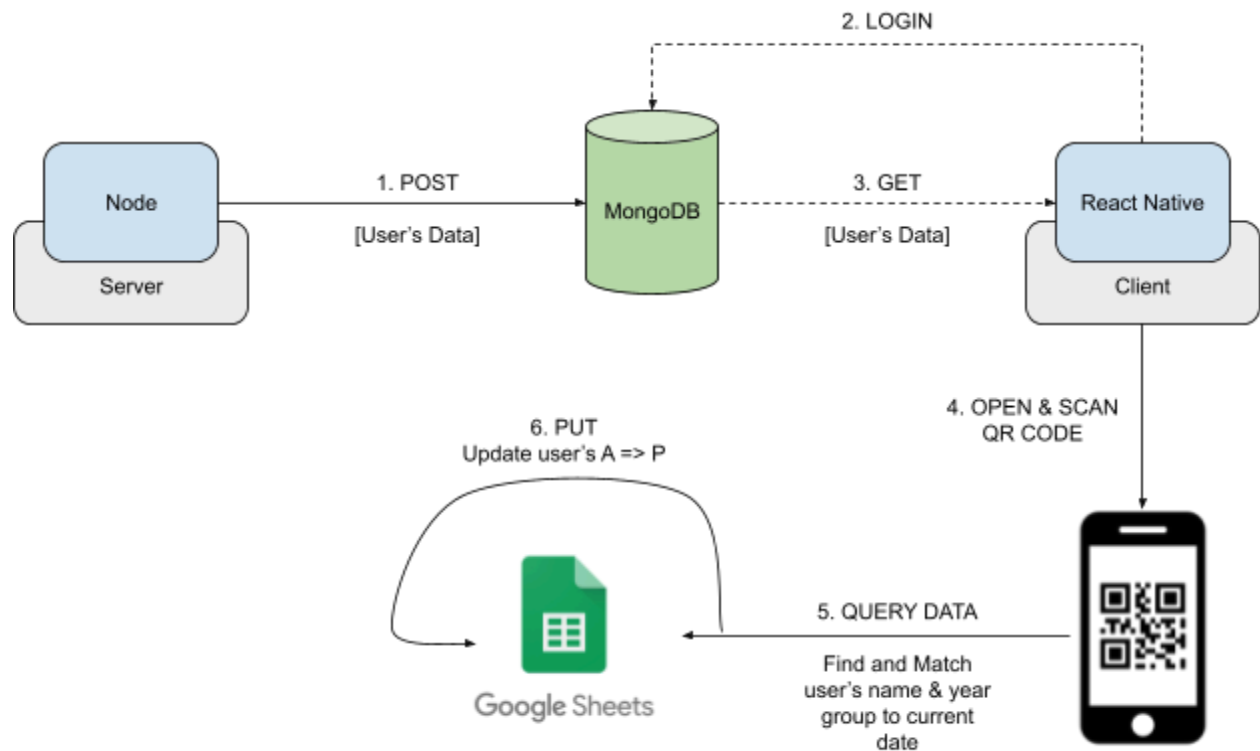
- Google Sheets - User's Full Name | Year Groups | Tajweed | Form | Dates
 1. All students date field will automatically be set to A (Absent)
- Backend sign users up - users do not register themselves (MongoDB)
- Users get their own login details (Tahawi email and set password e.g. tahawi123)
 1. On login - GET User's data - from mongodb
 - ❖ MongoDB - login details, User's Full Name | Year Groups | Tajweed | Form
 2. Display these information on the App
- Button to open to scan QR code
- Once QR code is scanned -
 1. Find user's full name & year group in Google Sheet
 2. And Find date
 3. Then Update (PUT) date field from A (Absent) to P (Present)
- When successfully found data and updated - QR code border turns green and closes
 1. Otherwise, if data not found - QR code border turns red

E.g.

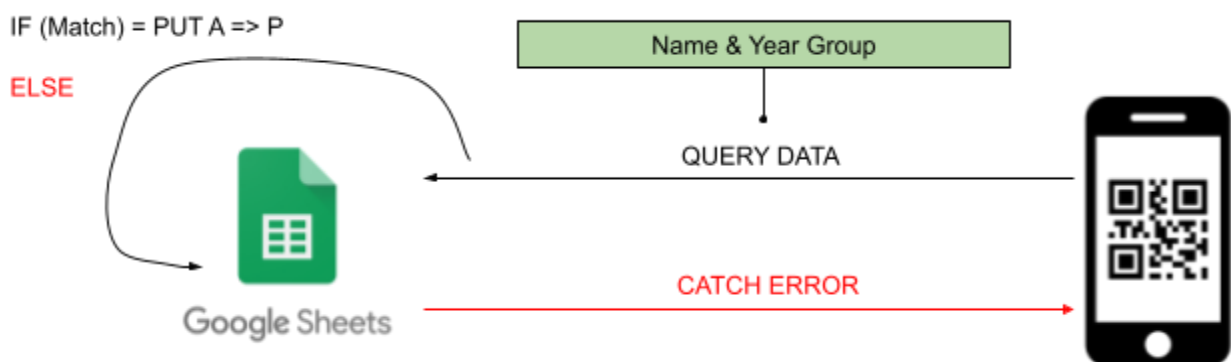
| ID | Full Name | Year Group | 05/02/2024 |
|----|-----------|------------|------------|
| 1 | xxxxx | Y1 | A => P |
| 2 | yyyyy | Y2 | A => P |

Phase 1 - Design

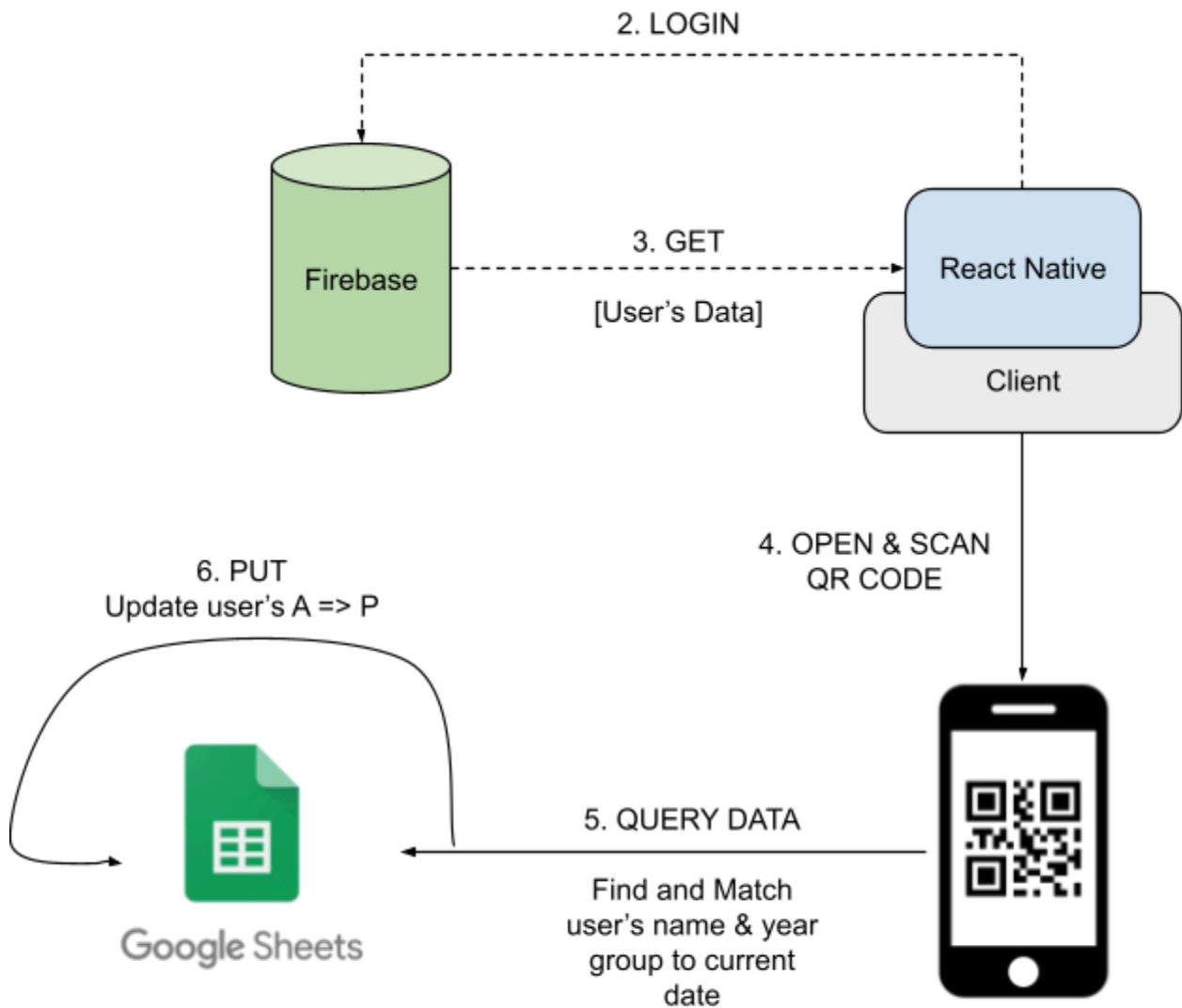
Overall Architecture:



Query Architecture:



Without Backend:



- What can we do to change qr code - students can scan qr from outside etc. -

Phase 2 - Requirements

- Individual students can see their own attendance on the app