Scheduled Pikobar Public Health Check Monitoring and Analysis Proposed Solution

Pikobar App

1) Running Internal Scheduled Task about Answering Local App Notitications every 10 AM

2) Force Questionnaire Screen on Apps Opened If That Day Not Yet Answering Questions

3) Health Check General Formula based on Questions Scored Value

4) Scheduled Notif -> Apps Fetching List of Questions with Scored Value and Threshold -> User Answers The Questions -> Submit Button Clicked -> In App Health Calculate w/ general Formula -> Query to DB Firebase using Firebase Library updating Users Collection (Health Status, Answered Questions)

DB Firebase

1) Questionnaire Collection
   a) List of Questions and scored value on every questtions
   b) Question, Scored Value
   c) Threshold Value for Green, Yellow, Red Category

2) User Collection
   a) Health Status (array of objects)
      i) timestamp, status
   b) Answered Questionnaire
      i) timestamp, list of answers

UI for Questionnaire Monitoring

1) Embedded on Admin Panel or Separated UI

2) Show Statistics about :
   a) Count Users that Already Answering Questions Per Day
   b) Health Status Per Day

Firebase DB Collections Needed

User Profile Collection

- Health Status (Array of Objects)
  - Status Category (String)
  - Timestamp Submitted from Apps Pikobar (Datetime)
- Answering Collections (Array of Objects)
  - Timestamp Submitted (Datetime)
  - List of Answers (Array of Objects)
    - Question (String)
    - Answers (String)

Questionnaire Collection

- Questions (Array of Objects)
  - Timestamp (YYYY-MM-DD)
  - List of Questions (Array of Objects)
    - Question (String)
    - Score Value
  - Threshold Value (Objects)
    - Green
    - Yellow
    - Red

Supporting Libraries

1. https://pub.dev/packages/cron
2. https://pub.dev/packages/firebase