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Problem Overview

The food journal app will allow the user to record mails and drink intake on a daily basis and view a report (either via email or on demand) of those records between two given dates. This application is targeted at anyone who wants to improve their eating habits, or help others do so. This includes healthcare personnel such as nutritionists, their patients, and other individuals who desire to track what they are consuming.
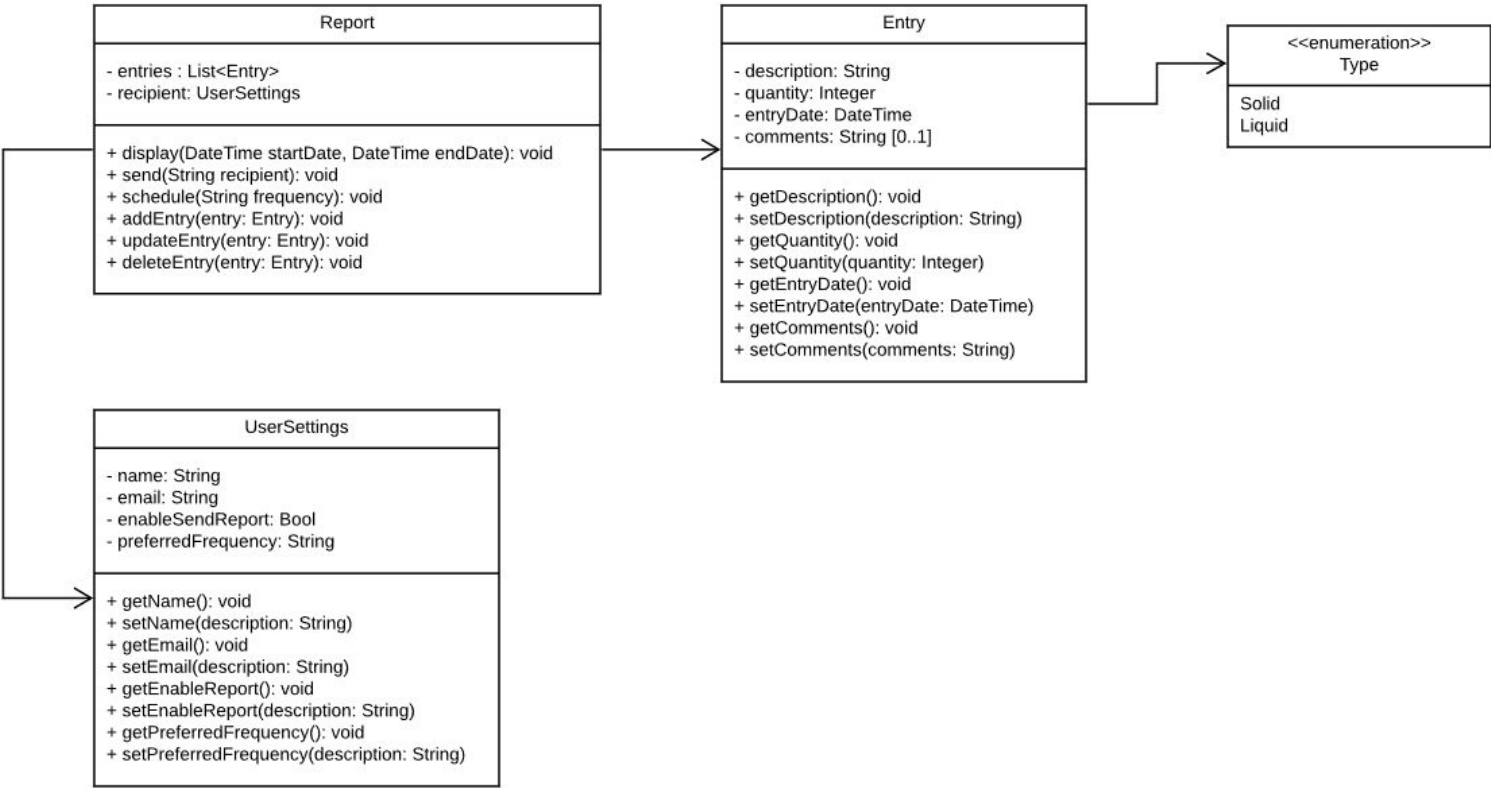
Core Features and Stretch Goals

Core Features	Allow users to: ● Record food and drink intake (entry date defaults to today and current time, but it can be changed) ● Edit past records ● View summary of daily and weekly intakes, or between two dates
Stretch Goals	Allow users to: ● Receive a report via email after choosing one of the predefined time options or two dates ● Schedule automatic reports with a given frequency ● Set daily reminders to enter meals and drink intake

Design Overview

The application will consist of the following components:

● A user interface with five screens or Android activities (main data entry, on-demand report, edit entry, schedule email report, and user settings).
● A SQLite database to store the information permanently.
● An integration with a 3rd party email service to send messages.
● To avoid the cost of buying a Google Play Developer license (USD 25 per seat), we will distribute the application using a signed APK file.

UML Diagram

Report

- entries : List<Entry>
- recipient: UserSettings

+ display(DateTime startDate, DateTime endDate): void
+ send(String recipient): void
+ schedule(String frequency): void
+ addEntry(entry: Entry): void
+ updateEntry(entry: Entry): void
+ deleteEntry(entry: Entry): void

Entry

- description: String
- quantity: Integer
- entryDate: DateTime
- comments: String [0..1]

+ getDescription(): void
+ setDescription(description: String)
+ getQuantity(): void
+ setQuantity(quantity: Integer)
+ getEntryDate(): void
+ setEntryDate(entryDate: DateTime)
+ getComments(): void
+ setComments(comments: String)

**<<enumeration>>
Type**

Solid
Liquid

UserSettings

- name: String
- email: String
- enableSendReport: Bool
- preferredFrequency: String

+ getName(): void
+ setName(description: String)
+ getEmail(): void
+ setEmail(description: String)
+ getEnableReport(): void
+ setEnableReport(description: String)
+ getPreferredFrequency(): void
+ setPreferredFrequency(description: String)

User Interface Plans

Main data entry

Food Journal

Type
◉ Solid   ○ Liquid

Description
|

Quantity
1

Entry Date
03/18/2021

Comments
|

❌ CANCEL   SAVE 💾

On-demand report

Food Journal

From
03/15/2021 📅

To
03/21/2021 📅

Description	Quantity	Date	Actions	
Piece of cake	2	03/18/2021	✏️	🗑️
Soda	1	03/18/2021	✏️	🗑️
PB sandwich	3	03/18/2021	✏️	🗑️

❌ CANCEL EMAIL ✉️

Edit entry

Food Journal

Type
⦿ Solid ○ Liquid

Description
Piece of cake

Quantity
2

Entry Date
03/18/2021 📅

Comments
Super delicious!

❌ CANCEL SAVE 💾

Schedule email report / User settings

User Settings

Name

Saul Goodman

Email

saul@good.man

☑ Send report automatically?

Frequency

◉ Weekly

○ Monthly

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