

# BIRTHDAY REMINDER app

NIHARIKA ALAM

## Features implemented

- **Add Birthday** Input name of the person and their birthday, as well as decide the option to show notification for that person's birthday
- **View Birthday** View the entry by clicking on it and it will show the persons name on top, date of their birth, as well as the countdown number (number of days until persons birthday).
  - There is also the option to delete the birthday from the list.
- **Edit Birthday**

## **Data save/retrieval methods - SQLite Database**

I use database for my PersonDBQueries class. This class is used to insert, update, and delete a person from the database. A person is identified by their name, their birthday, and their notification value.

Using a database will bring about better performance as the application only has to load the data it needs. There is also the benefit of reduced application cost, and content can be accessed and updated using queries.

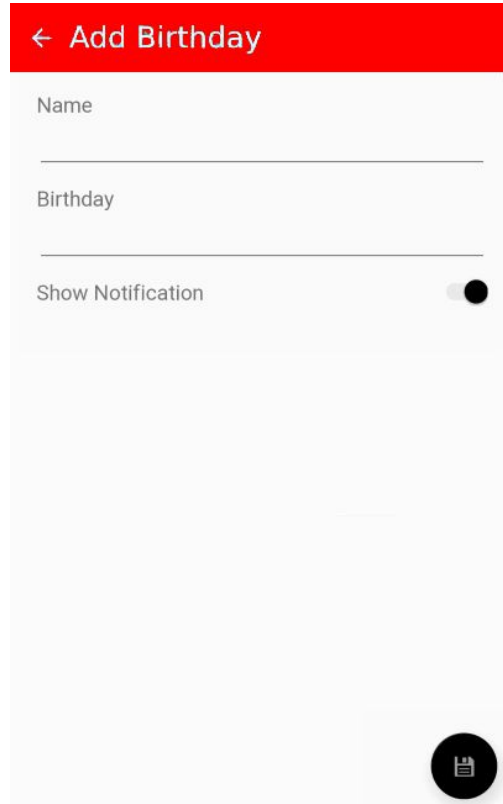
## **Data Structures**

- I used an ArrayList in my PersonDBQueries class to contain the list of people from the birthday list

# Screenshots of the project.



first view/list



creating entry



read birthday



Edit Birthday

# Challenges

- Sorting the list so that the countdown numbers would show in ascending order
- Adding repeating alarms
- Notifying users when the application is closed
- updating an existing entry

## **Missing features and the challenges that prevented you from implementing them.**

In my proposal, I have mentioned that users can choose a reminder time that is different from the birthday. I decided it was best to just be notified on the day of the birthday since there was a countdown implemented and adding a reminder time seems unnecessary.

# What I learned

- creating an array list of items with a reminder time associated with each item
- learning the various ways to notify a user such as toasts, using a NotificationManager class, or dialog windows
- using android studio



# **Given more time, what else would you have liked to add to your project?**

- users would be able to upload an image to the reminders
- add notes to the birthday reminders
- option to delete all records from the list