HOME SCREEN

Current time

Navigation icons

18:34

Tap current activity

Nothing	Working	Travelling
Relaxing	Exercising	Eating
Sleeping	Reading	Washing

UNDO

Time since last tap: 20 minutes

Activity Log:

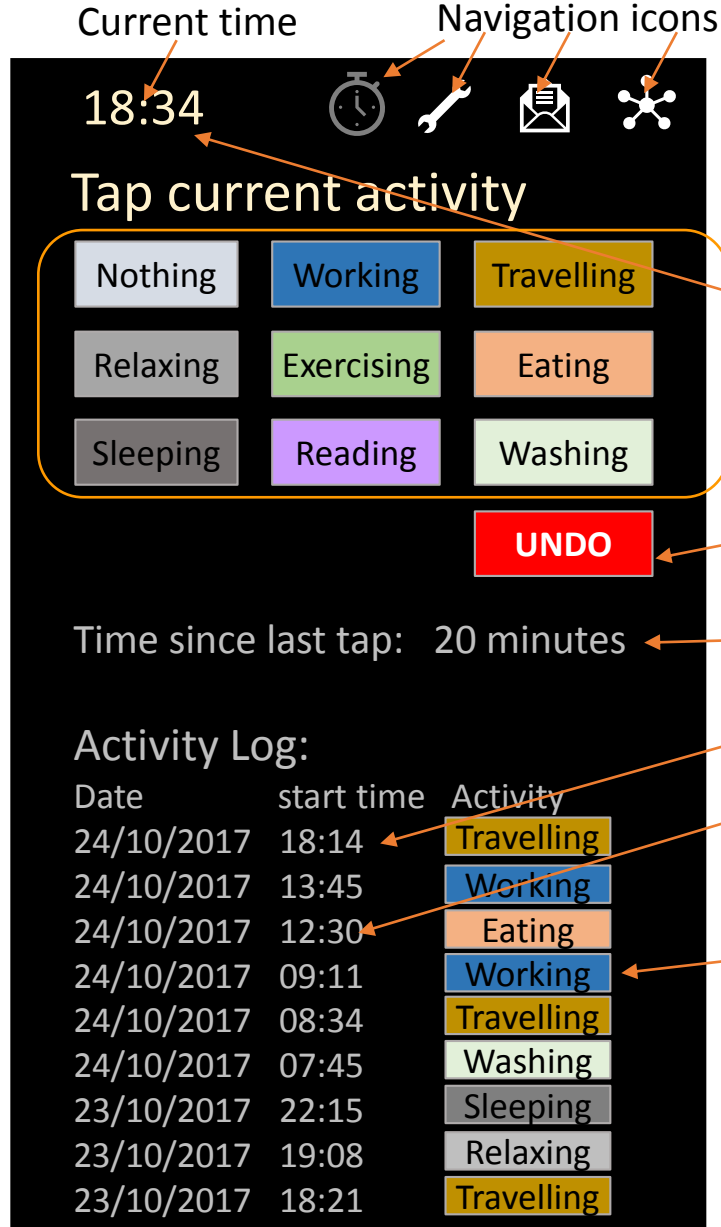| Date	start time	Activity
24/10/2017	18:14	Travelling
24/10/2017	13:45	Working
24/10/2017	12:30	Eating
24/10/2017	09:11	Working
24/10/2017	08:34	Travelling
24/10/2017	07:45	Washing
23/10/2017	22:15	Sleeping
23/10/2017	19:08	Relaxing
23/10/2017	18:21	Travelling

Variable list of **activity buttons** (9 is default). Pressing any of these buttons will trigger 2 actions:

A) Create new entry to the activity log. Data added to the log is Date, Time, and name of button

B) Do the following:
   i)   Edit last entry (made by this app) to google diary. Change end time of Event to current time
   ii) Create new event in google diary. Event name is Button name, start time is current time

Undo button, undoes actions A) and B)

Time since last tap is time difference (in minutes) between current time and start time of last logged activity

Tapping on any **time** data, allows user to edit that time (but must be between the start times of previous and subsequent activities) (edits both app log and google calendar).

Tapping on any activity in the log allows the user to edit the activity (either change the activity or delete it. If deleting then a) there must be a confirmation pop-up "Confirm delete activity: [Yes] [Cancel]", b) if confirmed the whole record must be deleted (date, time, activity etc). Editing affects both the log and google calendar

Swiping up reveals more log entries
The app should be able to record thousands of log entries (probably requires SQLite?)
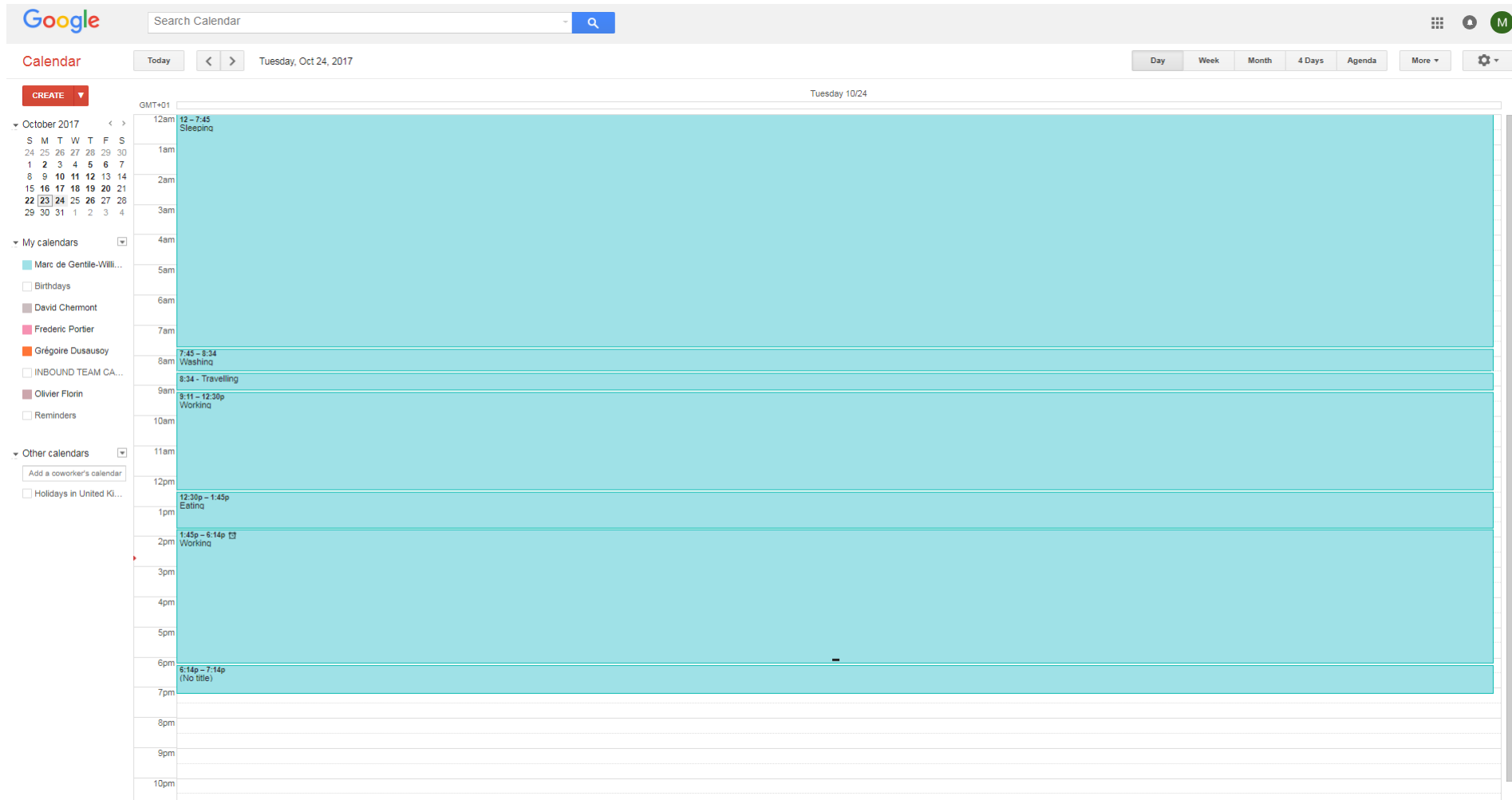
Simple Time Logging app

I am looking for an android developer to develop a simple android app that allows the user to log the activity he is currently doing (by pressing a button; one button for each defined activity). This information is then stored both within the app's memory and on Google calendar.

I have some experience writing android apps and therefore will want the code to be well document: at lease one explanatory comment for every 6 lines of code.

I have a detailed specification which I will share with a shortlist of the 6 best candidates.

Data is also entered in user's google calendar

If google calendar can't be updated (perhaps because of no internet connection) then the update should occur at a later time when possible

SETTINGS SCREEN (This is the first screen the user sees of My name field is blank

Settings

My name: [   ]

My google calendar
[   ]   Save

Tap activity button to edit name or colour

Nothing	Eating
Relaxing	Washing
Sleeping	+ NEW
Working	
Exercising	
Reading	
Travelling	

Clear Whole log?   Clear log

Text field to allow user to enter a name (max 40 characters)

"My google calendar" field is the data required to link to the user's google calendar

Tapping any activity button allows user to change the name and/or the colour of the button, or delete the button (deleting will trigger a pop-up "Confirm Delete button [Yes] [Cancel])

"+ NEW" button allows user to add a new button, up to a maximum of 21 buttons. User must define name and colour of button.
Max characters in name is 20
Colour of text is either white or black depending on how dark the colour of the button is. Use this code to determine text colour:

```
public static int getContrastColor(@ColorInt int color) {
    // Counting the perceptive luminance - human eye favors green color...
    double a = 1 - (0.299 * Color.red(color) + 0.587 * Color.green(color) + 0.114 * Color.blue(color)) / 255;
    return a < 0.5 ? Color.BLACK : Color.WHITE;
}
```

Clear log button triggers a pop-up "ARE YOU SURE YOU WANT TO CLEAR THE LOG? (Yes/Cancel)" – on tapping "Yes", the whole log is deleted (but not on Google Calendar)

EXPORT SCREEN

Email report to:

Subject:

My time log

Message:

Please find attached my latest activity log.

Report start date 📅

Default is first day of last month

Report end date 📅

Default is last day of last month

Include:

- ☑ Nothing
- ☑ Relaxing
- ☑ Sleeping
- ☑ Working
- ☑ Exercising
- ☑ Reading
- ☑ Travelling
- ☑ Eating
- ☑ Washing

Email

Fields are pre-filled with entries that were used the previous time the screen was filled in.

When "Email" button is tapped, the user's preferred email client is opened and all the fields are pre-filled with the fields from this screen, together with a CSV attachment.

Tapping on date fields or icons opens up a mini calendar to help user select date

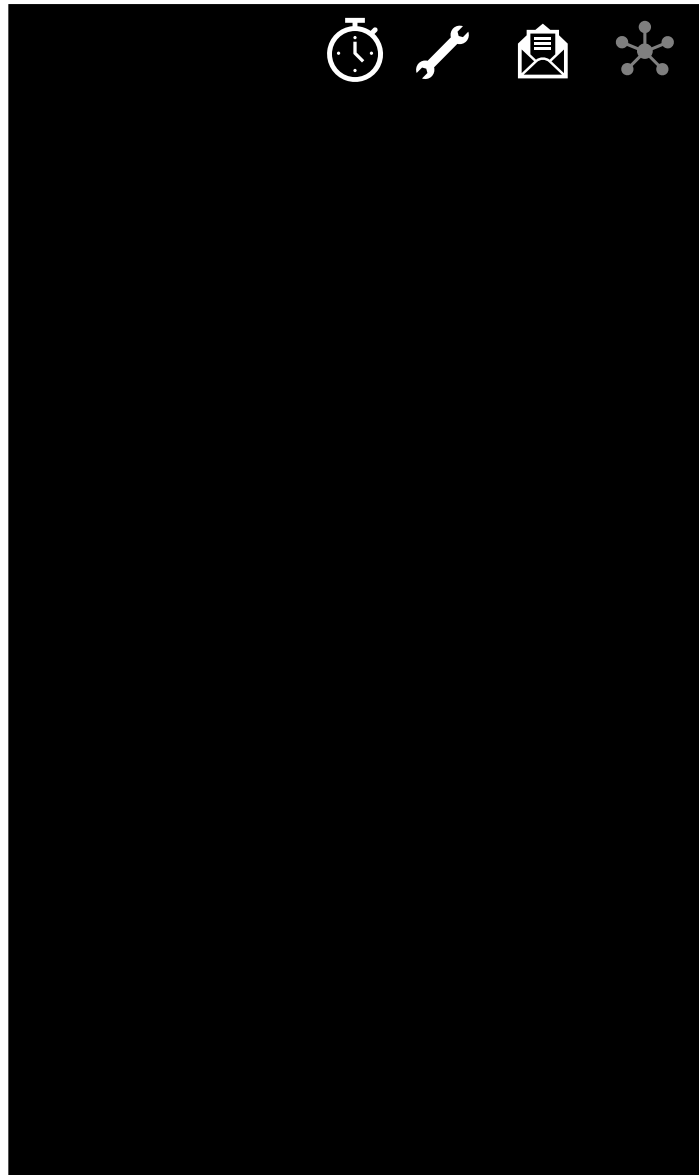The CSV attachment will contain a table with the following data:
- Date
- Activity
- Start time
- End time (end time is the start time of the next activity)

For all the records from the days between start date and end date

Exclude activity records for which check box is not checked

Name of attached file will be [user name] + " timesheet.csv"

SHARE SCREEN

Share button
Generates the usual android share app with other users (email, sms etc)