The gist of the project – indicate current states of working hours of the pool and the gym.

Additionally, disable double click refresh, so should be only swipe down refresh.

# 1. Main layout

Main layout of the site remains the same as it was:

http://zamaroot.com/english/

# 2. Source for getting information about working hours

Information about working hours we get from Excel-file, which has the next structure:

1. Three sheets “Pool”, “GYM ALL YEAR” and “GYM Holidays”, each of which contains table with the information about working hours for different dates.
2. Each row in the table contains next columns we need to analyze:
   1. Date or Day (we need column “Date” for sheets “Pool” and “GYM Holidays”, and column “Day” for a sheet “GYM ALL YEAR”)
   2. Morning (contain information about working hours; if this cell is empty – our resource may only works in the evening and we should analyze cell “Night”; if both cells “Morning” and “Night” are empty – our resource doesn’t work at this Date)
   3. Night (contain information about working hours if there is a break in working hours at this Date; if this cell is empty – our resource may only works without a break this Date and we should analyze only cell “Morning”; if both cells “Morning” and “Night” are empty – our resource doesn’t work at this Date)

# 3. Messages Types

## 3.1. Current working state messages

We have three message types about current working state:

1. <Resource\_name> is open until <Closing\_time>
2. Next opening <Next\_day> at <Opening\_time>
3. See you next year!

Where

<Resourse\_name> - one of the values: “Pool”, “Gym”

<Closing\_time> - time, when our resource closes today

<Next\_day> - the nearest day, when our resource will work, if it’s not working now

<Opening time> - time, when our resource opens in the next working day

## 3.2. Current date message

And we have one additional message to indicate the current date and time:

Today is <Current\_date>.

# 4. Dynamic text display logic

## 4.1. Logic for the pool

Pool is all year long closed, but open only in season.

Working hours for season’s days are defined on the sheet “Pool”.

The sequence of actions for defining the message text is as follows:

1. We look for current server date among values of cells for column “Date”.

2. If we can’t find current server date among values, we show the message “**See you next year**”.

3. If we found current server date among values, we analyze corresponding values of columns “Morning” and “Night” for the row with this date.

3.1. If cell “Morning” is empty, we analyze value of column “Night”.

3.1.1. If cell “Night” is empty too, we show message “**Next opening [Day + Open Hour]**”, where Day – is the nearest day for which one of cells “Morning” and “Night” isn’t empty.

3.1.2. If cell “Night” isn’t empty and current server time is between values in this cell, we show message “Pool is open until <Second time marker in cell “Night”>”.

3.2. If cell “Morning” isn’t empty we analyze its value.

3.2.1. If current server time is between values in cell “Morning”, we show message “Pool is open until <Second time marker in cell “Morning”>”.

3.2.2. If current server time isn’t between values in cell “Morning”, we analyze value of column “Night”. If cell “Night” is empty we show message “**Next opening [Day + Open Hour]**”, where Day – is the nearest day for which one of cells “Morning” and “Night” isn’t empty.

3.2.3. If cell “Night” isn’t empty and current server time is between values in this cell, we show message “Pool is open until <Second time marker in cell “Night”>”.

3.2.4. If cell “Night” isn’t empty and current server time isn’t between values in this cell, we show message “**Next opening [Day + Open Hour]**”, where Day – is the nearest day for which one of cells “Morning” and “Night” isn’t empty.

## 4.2. Logic for the gym

Working hours are defined on the values of the sheets “GYM ALL YEAR” and “GYM Holidays”.

The sequence of actions for defining the message text is as follows:

1. We look for current server date among values of cells for the column “Date” of the sheet “GYM Holidays”.

2. If we can’t find current server date among these values, we define the day of week for current server date and look it among values of cells for the column “Day” of the sheet “GYM ALL YEAR”.

3. When we found current day of week, we analyze corresponding values of columns “Morning” and “Evening” for the row with this day.

3.1. If cell “Morning” is empty, we analyze value of column “Evening”.

3.1.1. If current server time is between values in this cell, we show message “Open until <Second time marker in cell “Evening”>, lets pump”.

3.1.2. If current server time isn’t between values in this cell, we show message “Come again at <Next Opening Time + Day>”.

3.2. If cell “Morning” isn’t empty we analyze its value.

3.2.1. If current server time is between values in cell “Morning”, we show message “Open until <Second time marker in cell “Morning”>, lets pump”.

3.2.2. If current server time isn’t between values in cell “Morning”, we analyze value of column “Evening”. If cell “Evening” is empty we show message “Come again at <Next Opening Time + Day>”, where Day – is the nearest day when gym is working.

3.2.3. If cell “Evening” isn’t empty and current server time is between values in this cell, we show message “Open until <Second time marker in cell “Evening”>, lets pump”.

3.2.4. If cell “Evening” isn’t empty and current server time isn’t between values in this cell, we show message “Come again at <Next Opening Time + Day>”, where Day – is the nearest day when gym is working.

4. If we find current server date among values of cells for the column “Date” of the sheet “GYM Holidays”, we analyze corresponding values of columns “Morning” and “Night” for the row with this date and show corresponding message using the same logic as we wrote early, but with another special message.

## 4.3. Logic for the additional message