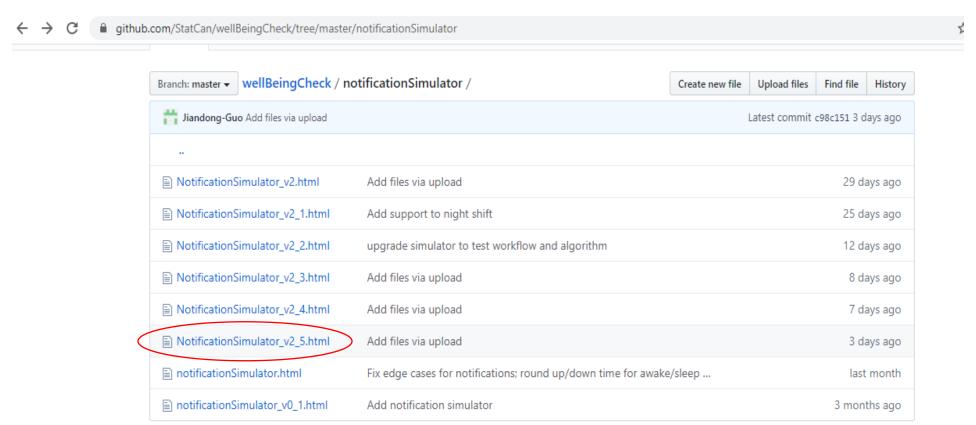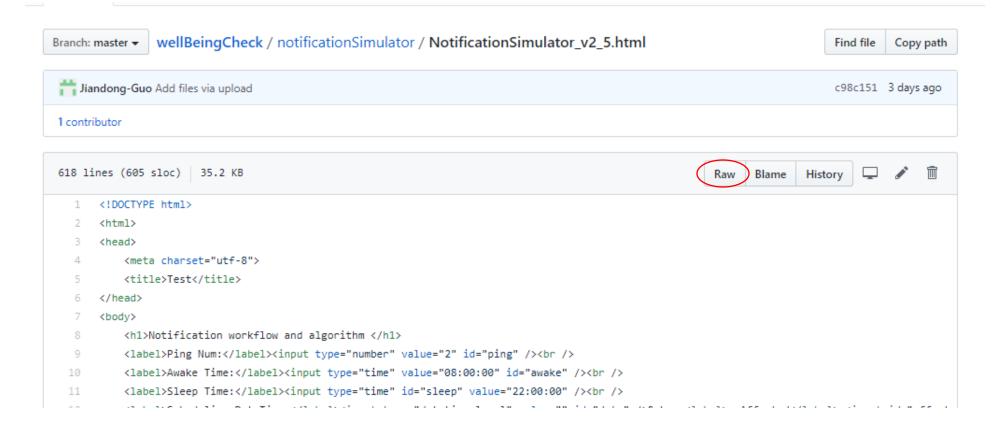How to use Simulator:

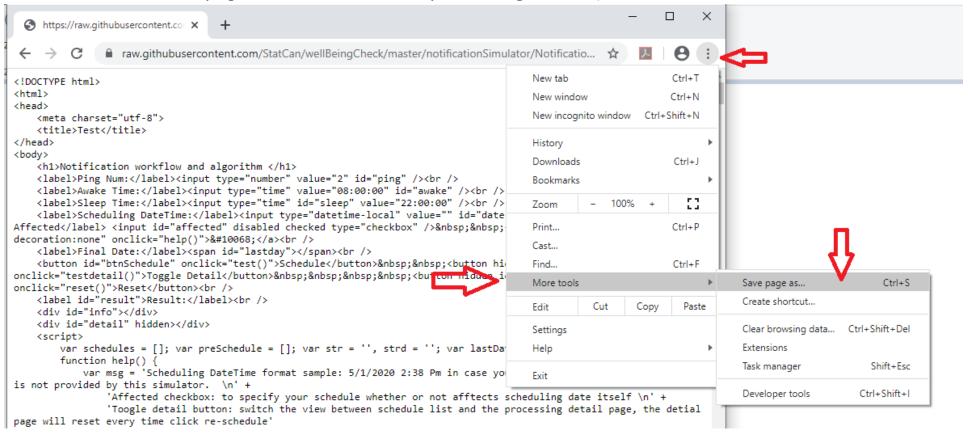1) Download simulator file to your local computer

   1A) Locate the latest version of the simulator
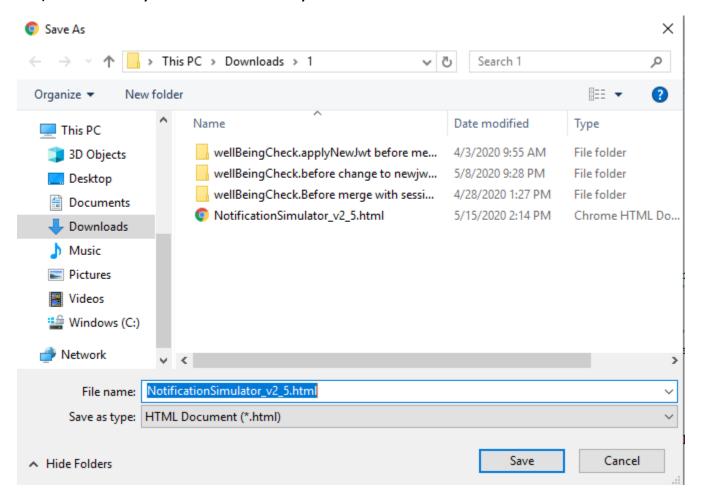
1B) Double click it and click "Raw"

Branch: master ▾   **wellBeingCheck** / notificationSimulator / **NotificationSimulator_v2_5.html**   Find file   Copy path

Jiandong-Guo Add files via upload   c98c151   3 days ago

1 contributor

618 lines (605 sloc)   35.2 KB   Raw Blame History

```
1    <!DOCTYPE html>
2    <html>
3    <head>
4        <meta charset="utf-8">
5        <title>Test</title>
6    </head>
7    <body>
8        <h1>Notification workflow and algorithm </h1>
9        <label>Ping Num:</label><input type="number" value="2" id="ping" /><br />
10       <label>Awake Time:</label><input type="time" value="08:00:00" id="awake" /><br />
11       <label>Sleep Time:</label><input type="time" id="sleep" value="22:00:00" /><br />
```

1C) Use your browser tools->More tools->Save page AS (different browser has different name, but all the bowsers have the save page as function, this sample is using chrome)
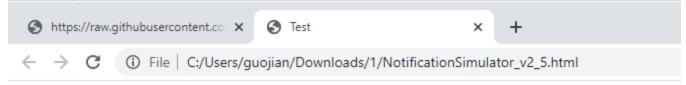
1D) Save it to your local folder by click Save button.

2) How to run this file:

Go to your local folder where you save that file and double click it

Notification workflow and algorithm

Ping Num: 2
Awake Time: 08:00 AM
Sleep Time: 10:00 PM
Scheduling DateTime: mm/dd/yyyy --:-- -- ▼ : Affected ✓ ?
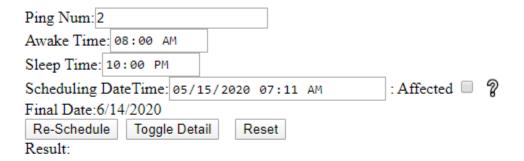Final Date:
Schedule
Result:

Now the simulator is on your local browser now.

All input should be straightforward, except the Scheduling DateTime is a date time combined picker,

Which let you pick the date, time and AM/PM, it will be little different based on your default browser, but almost same.

3)pick you datetime and click Schedule button, you will get the schedule list

---

Notification workflow and algorithm

Ping Num: 2

Awake Time: 08:00 AM

Sleep Time: 10:00 PM

Scheduling DateTime: 05/15/2020 07:11 AM   : Affected ☐ ?

Final Date: 6/14/2020

Re-Schedule   Toggle Detail   Reset

Result:

Schedule List:

Fri May 15 2020 19:26:00 GMT-0400 (Eastern Daylight Time) 19

Sat May 16 2020 11:15:00 GMT-0400 (Eastern Daylight Time) 11

Sat May 16 2020 19:16:00 GMT-0400 (Eastern Daylight Time) 19

Sun May 17 2020 10:04:00 GMT-0400 (Eastern Daylight Time) 10

Sun May 17 2020 19:53:00 GMT-0400 (Eastern Daylight Time) 19

Mon May 18 2020 20:00:00 GMT-0400 (Eastern Daylight Time) 20

Mon May 18 2020 21:54:00 GMT-0400 (Eastern Daylight Time) 21

3A) if you click Toggle Detail button, you will see the calculation detail, tell you how the schedule was calculated.

Notification workflow and algorithm

Ping Num: 2

Awake Time: 08 : 00 AM

Sleep Time: 10 : 00 PM

Scheduling DateTime: 05/15/2020 07:11 AM : Affected ☐ ?

Final Date: 6/14/2020

[Re-Schedule] [Toggle Detail] [Reset]

Detail:

Prepare for schdule:

Awake hour roundup:8

Sleep hour rounddown:22

Last survey date:Sun Jun 14 2020 00:00:00 GMT-0400 (Eastern Daylight Time)

Schedule days:

5/15/2020

5/16/2020

5/17/2020

....

4) Explanation of the input:

Ping Num: specify the notification schedule number per day,

Awake Time, Sleep Time: These value will be rounded following the rules specified by the notification spec document

Scheduling Datetime: it is a simulation of the time point when the schedule is arranging, for example it may be after survey A done, after survey B done, or after you change the setting.

Affected: according our requirement, we just schedule maximum 4 days of notifications, and a day5 notification that is used to remind user to do the survey if he forget to do survey in the last 4 days. Any time he finish a survey, the app will arrange more schedules to make up to 4 days of notification, for example he already has 4 days notification, on day 3, he finishes the survey, the app will append 2 days of notification to the list to make it 4 days and the app will re-arange the day5 notification. The "affected" checkbox is used to tell app "do we need to re-arange for today ?". it is used when user change setting today, so today's schedule list will be re-aranged or not.   Still use previous example, on day 3, he changed the setting from pingMum=2 to pingNum=3, if the affected check box is checked,that means today, the day 3 will be re-aranged, how many times of notification should be scheduled based on how many notification has already been sent out.   If the affected check box is not checked, so today, the day 3 will not re-arange, it will keep the 2 notifications for today, but from tomorrow, the notification num will be changed to 3 times a day.