**Alien Clock**

You are given the following information:

1. Below is the time comparison between Earth time and Alien time:

* 1970-1-1, 12:00:00am Earth time is equivalent to Year 2804, Month 18, Day 31, Hour 2, Minute 2, Second 88 Alien’s time.
* 1 second Alien time is 0.5 second Earth time.

1. Below is the information about Alien’s time:

* 1 minute is 90 seconds.
* 1 hour is 90 minutes.
* 1 day is 36 hours.
* There are 18 months in a year.
* Number of days in respective month is as shown below:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Month*** | ***1*** | ***2*** | ***3*** | ***4*** | ***5*** | ***6*** | ***7*** | ***8*** | ***9*** |
| Days | 44 | 42 | 48 | 40 | 48 | 44 | 40 | 44 | 42 |
| ***Month*** | ***10*** | ***11*** | ***12*** | ***13*** | ***14*** | ***15*** | ***16*** | ***17*** | ***18*** |
| Days | 40 | 40 | 42 | 44 | 48 | 42 | 40 | 44 | 38 |

Write a standalone program that has the following functions:

* Display the Alien clock (be creative) showing current date and time The clock should be updated every 1 Alien second.
* Allow user to set date and time. Validate the input.

Bonus:

* Display Earth’s date and time based on the Alien’s time.
* Allow user to set alarm.

Remarks:

The programming language used for frontend must be C#; or VueJS and backend must be Java Springboot.