

# Mattermost calendar notification

Badal Mondal

## Short overview

November 30, 2021

# Notification settings

① Weekly notification:

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② Daily notification:

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③ Hourly notification

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  - ▶ Every Monday 12:00 AM
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- ▶ Scheduling

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- ▶ 'Location'  $\rightarrow$  zoom, webconf, skype link in 'Description'  $\rightarrow$  default (Group Meeting Room)

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- ▶ Include 'Full day events'

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- ▶ 'Attachment' information if exists
- ▶ Include 'Full day events'
- ▶ Only **'important events'**

# Constraints and future

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- 1 In title, description, location and attachment in Google calendar:  $|'|"|'|" * | \Rightarrow |,|,,|,|,,||$



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- ▶ Improved functionality

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- ▶ Cron scheduling  $\Rightarrow$  APScheduler

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- ▶ Improved functionality
- ▶ Cron scheduling  $\Rightarrow$  APScheduler
- ▶ Any suggestions??

# Updates<sup>1</sup> and Bug fixes

- ① Weekly notification: ~~6:00 AM~~ → 12:00 AM
- ② Daily morning notification: ~~6:00 AM~~ → 12:01 AM
- ③ 12:00 AM event → Next day/ week
  - ▶  $\text{time\_diff} < \text{time\_interval}$  and  $\text{time\_diff} \geq 0$   
 $\text{time\_interval} = 24 \text{ hrs} / 7 \text{ days}$
- ④ Hourly notification: \*\*:00 → \*\*:02
- ⑤ Database update: 4hr 15m → 4hr\*
  - ▶ Proposition: database update in every 1hr
- ⑥ Fixed blind spot (12:00 AM - 1:00 AM)
- ⑦ No 'description' if doesn't exists
- ⑧ Notification 1 min before meeting\* (conditional)

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<sup>1</sup>To avoid confusion in the conventional definition of day or week and time collision between different msgs (minimize race condition).

# New constraints

- Only 'Weekly' recurrence meeting
- RRULE: FREQ, UNTIL, BYDAY, EXDATE
- An invalid date (i.e., February 30) is ignored??
- Keep it simple (*ical* properties website)



# Update-1

- Adding presenter(s) in group seminar (Calendar notification)
  - ▶ Reads from Google sheet
  - ▶ Title: '... group seminar ...'/'... group status talks ...'
    - ★ Case insensitive but spelling and order sensitive
  - ▶ First  $x$  row: comment/header lines
  - ▶ Header week: 1st 2 characters only, local language, Ger2Eng
  - ▶ Addition of vacant row is allowed within schedule box
  - ▶ The calendar week must not contain Nan or None or ' '
  - ▶ Send notification: only schedule  $\geq$  this week
  - ▶ Bug: With umlaut and french words (json encoding).
- Send notification: updated Google sheet seminar part.
  - ▶ Same timing as Daily Database update (4hr).
    - ★ Proposition: Check hourly/minute.
- Send notification: Google sheet seminar part.
  - ▶ Weekly with current week highlight