

Mattermost calendar notification

Badal Mondal

Short overview

June 1, 2021

Notification settings

① Weekly notification:

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② Daily notification:

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① Weekly notification:

② Daily notification:

③ Hourly notification

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- ① Weekly notification:
 - ▶ Every Monday 12:00 AM

- ② Daily notification:

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 - ▶ Only event titles
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 - ▶ "The" hour before the event(s) starts

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Working principle and Functionality

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 - ★ Create daily 'temp' database \Rightarrow updates in every 4h 15m.*

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

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- ▶ 'Attachment' information if exists

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- ▶ Include 'Full day events'

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- ▶ 'Location' \rightarrow zoom, webconf, skype link in 'Description' \rightarrow default (Group Meeting Room)
- ▶ 'Attachment' information if exists
- ▶ Include 'Full day events'
- ▶ Only **'important events'**

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

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- ▶ Cron scheduling \Rightarrow APScheduler

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

Updates¹ 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)

¹To 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)