

The background features a dark blue gradient with a starry night sky. On the left side, there are several technical diagrams, including circular gauges with numerical scales (40, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260) and various circular arrows indicating motion or flow. At the bottom, a silhouette of a mountain range is visible against the dark sky.

# EXTEND AND IMPROVE THE CERNBOX NOTIFICATIONS PLATFORM

GOOGLE SUMMER OF CODE 2023 – CERN-HSF (CERNBOX)

BY: DANIEL SPAREMBLEK

# PROJECT DESCRIPTION

**Project Title: Extend and improve the CERNBox Notifications platform**

**Mentors: Javier Ferrer**

**Organization: CERNBox**

**Project Tasks:**

- 1. Extend the Notifications system with a framework that provides different settings for notifications, e.g. filtering**
- 2. Create a filter for enabling/disabling all notifications**

# TASK 1

Spread out into multiple subtasks:

- Extending the backend
  - Add FETCH and PATCH request handlers for notification settings from the frontend
  - Extend the current support of language preference to include language and notification preference
- Extending the database
  - Adding test configurations so that notification emails are received in a development environment
  - Setting up notification preference rows in existing preference tables (oc\_preferences)
  - Filter the triggers so that they only send notifications to users that have them enable
- Extending the backend
  - Extend with new SQL queries for putting and fetching into the database
- Source code: <https://github.com/javfg/reva/pull/1>

# TASK 2

Spread out into multiple subtasks:

- Modal
  - Add button to user menu that opens the notifications center
  - Extend the user menu to include a modal with notification settings
- Enable/disable notifications
  - Add a function to filter all notifications, mainly a checkbox to enable them or disable them
- Fetch and store in the backend
  - Extend the user menu with functions send a fetch and patch notification preferences from the database
- Source code: <https://github.com/javfg/cernbox-web/pull/1>

# ACKNOWLEDGEMENT

- I'd like to thank my mentor **Javier Ferrer** for encouraging me, and being so helpful and enthusiastic



THANK YOU!

[GITHUB.COM/DANIEL-SPAREMBLEK/GSOC-2023](https://github.com/daniel-spreamblek/gsoc-2023)