

# Scheduled Reminders

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## OVERVIEW & PURPOSE

Build a small, simple Ruby on Rails application that sends monthly scheduled reminders to users

## Overall requirements

- A user should be able to register with an email and password
- After signing in, the user should see a list of their existing reminders
- The user should be able to create a new reminder (see below for details)
- Once a month, on a configurable day and time, the application should send the user an email with the reminder title and text
- The user should be able to delete existing reminders
- There should be basic tests in place for the core functionality (ideally in RSpec, but alternatives are fine if you're more comfortable with them)

Reminder Configuration Requirements:

- The user should be able to add a title (i.e. subject line)
- - The user should be able to add body text
- - The user should be able to select a time of day when the email will be sent
- - The user should be able to select a day of the month when the email should be sent, and it should be possible for them to set that date relative to either the beginning of the month or the end of the month. Use your best judgment for how to represent these options in the UI, but the important thing is for the user to be able to select any day of the month from either direction (e.g. 1st of the month, last day of the month, 15th of the month, third to last day of the month, etc.), and for this information to be saved in the database and used to trigger the reminder emails in a way that's flexible and maintainable.

## Prerequisites

1. Ruby
2. Rails
3. PostgreSQL
4. Github

## Ruby gems

The ruby gems listed below may change/add in development

1. gem 'pg' - Use postgresql as database for activerecord
2. gem 'bcrypt' - Use `has_secure_password` in authentication
3. gem 'whenever' - To schedule an monthly emails to user with reminder details
4. gem 'rspec' - Rspec

## Database Schema

*Steps to check for student understanding*

<i><b>users</b></i>
- <i>id</i>
- <i>email</i>
- <i>password_digest</i>
- <i>created_at</i>
- <i>updated_at</i>

<b><i>reminders</i></b>
- <i>id</i>
- <i>user_id</i>
- <i>title</i>
- <i>body</i>
- <i>time</i>
- <i>start_date</i>
- <i>end_date</i>
- <i>day_of_month</i>
- <i>day_before_eom</i>
- <i>last_day_month</i>
- <i>created_at</i>
- <i>updated_at</i>

<b><i>notifications</i></b>
- <i>id</i>
- <i>date</i>
- <i>time</i>
- <i>reminder_id</i>

- <i>is_sent</i>
- <i>is_active</i>
- <i>created_at</i>
- <i>updated_at</i>

## Tasks

1. *Create new rails app*
  - a. Create a new rails application.
  - b. Database setup PostgreSQL
  - c. Create an initial commit
2. User registration
  - a. Database schema - Create table **users**
  - b. Model validations
  - c. Use has\_many reminders
  - d. User should signup with email id and password
  - e. User should authenticate with email and password
3. Reminders
  - a. Database schema - Create table **reminders**
  - b. Model validations
  - c. Reminder belongs\_to user
  - d. It should accept time of a day (:time)
  - e. It should accept a relative day of month
    - i. nth day of the month
    - ii. Last day of the month
    - iii. nth day before end of month
  - f. List user's reminders
  - g. User should delete reminders
4. Rspec
  - a. Write Rspec for user authentication
  - b. Write Rspec for user signup.
  - c. Write Rspec for reminders.
  - d. Write Rspec for notifications.
5. Send email

- a. An application should send an email to the user for his reminder.
  - b. Setup actionmailer
  - c. Write an email template with the remainder title and body.
- 6. Schedule an email
  - a. Requirement : Application should send an email once a month
  - b. Write a rake task to send an email
  - c. Automate “Send email” task
    - i. Install `gem 'whenever'`
    - ii. Schedule a cron job

Thank you

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