

Scheduled Reminder

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Git Repository : <https://github.com/amrutapednekar/ScheduledReminders>

22 February 2022

Create app

Create a new rails app and commit to github repository..

- Create rails app
 - `rails new ScheduledReminders`
 - `cd ScheduledReminders`
 - Created new github repository named ScheduledReminders
 - <https://github.com/amrutapednekar/ScheduledReminders>
 - `git remote add origin https://github.com/amrutapednekar/ScheduledReminders.git`
 - `git add -A`
 - `git commit -m "Initial commit"`
 - `git push -u origin main`

Setup PostgreSQL database

- Edit Gemfile
 - Comment `gem 'sqlite3'` and add below code
 - `# Use postgresql as the database for Active Record`
 - `gem 'pg', '~> 1.1'`
 - Uncomment
 - `gem 'bcrypt', '~> 3.1.7'`

-
- Edit Gemfile for PostgreSQL
 - Run command
 - `Bundle install`
 - `rake db:create`
 - `rake db:migrate`
 - `rails s`
 - Application is running on <http://localhost:3000/>

User authentication

- Create user model, users controller and sessions controller
 - `rails g model user email password_digest`
 - Add has_secure_password in users model and model validations
 - `rails g controller users new create`
 - `rails db:migrate`
 - `rails g controller sessions new create login welcome`

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

-
- Implemented user authentication.
 - Welcome page

Welcome to Scheduled Remider Application

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

User Authentication

If you have already created an account with your email address, please login.

Login

If you have not created an account yet, please sighup.

Sign Up

-
- User Signup

Welcome to Scheduled Remider Application

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

Sign Up

Email

amruta.jadhav1@gmail.com

Password

.....

Create User

-
- User login

Welcome to Scheduled Remider Application

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

Login

Email amruta.jadhav1@gmail.com Password

Login

OR

Sign Up

-
- User welcome page

Welcome to Scheduled Remider Application

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

User Authentication

You are Logged In as , amruta.jadhav1@gmail.com

[Logout](#)

- - Git commit
 - <https://github.com/amrutapednekar/ScheduledReminders/commit/9f40a0d4a37200ce3367d00f6bd362eaed53a862>
- Validations
 - Validates uniqueness of email id
 - Validates presence of email id
 - Validates presence of password
 - Authenticates if email id and password matches
 - Redirects to login if authentication fails
 - Stores hashed version of password in database

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Reminder Create Read Update Delete

- User has many reminders
- Generated scaffold for Reminder
 - `rails generate scaffold Reminder title:string body:text user:references time:time start_date:date end_date:date day_of_month:integer day_before_eom:integer last_day_month:boolean`
 - `rails db:migrate`

<i>reminders</i>
- <i>id</i>

- List Reminders

4 x 180 x 3

Welcome to Scheduled Reminder Application

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Reminders									
Title	Body	Time	Start date	End date	Day of month	Day before eom	Last day month		
My first reminder	Reminder Body	2000-01-01 11:00:00 UTC	2022-02-25	2023-02-23	2		false	Show	Edit
Rent reminder	House rent reminder	2000-01-01 14:53:00 UTC	2022-02-25	2022-07-29		3	false	Show	Edit
New Reminder									
Logout									

-
- Show Reminder

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Reminder was successfully created.									
Title: Rent reminder									
Body: House rent reminder									
Time: 2000-01-01 14:53:00 UTC									
Start date: 2022-02-25									
End date: 2022-07-29									
Day of month:									
Day before eom: 3									
Last day month: false									
Edit Back									
Logout									

-
- Edit reminder

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Editing Reminder

Title

My first reminder

Body

Reminder Body

Time

11:00

Start date

25/02/2022

End date

23/02/2023

Relative Days

You can enter only one from below options.

1. Every 2 th day of a month

2. days before End of the month

3. ☐ Last day of the month

Update Reminder

-
- User can delete reminders created by him
- Git commit
 - <https://github.com/amrutapednekar/ScheduledReminders/commit/dfe0052a35f306320e2d5d35c31ccd7ff2fcb23>
- Validations
 - Validates presence of title
 - Validates presence of body
 - Validates presence of time
 - Validates presence of start date
 - Validates presence of end date
 - Validates numericality of day_of_month
 - Validates day_of_month is less than or equal to 25
 - Allows nil to day_of_month
 - Validates numericality of day before end of the month - day_before_eom
 - Validates day_before_eom is greater than or equal to 1 and less than or equal to 5
 - Allows nil to day_before_eom
 - Validates only one relative date is entered among below three
 - Day of month

-
- Day before end of month
 - Last day of month

If not , it displays an appropriate error message.

- Validates if the end date is greater than start date. If not, it displays an appropriate error message.

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Add notifications on create/edit reminder

- Reminder has many notifications
- Generated scaffold for Reminder
 - `rails g model notification date:date time:time reminder:references is_sent:boolean is_active:boolean`
 - `rails db:migrate`

<i>notifications</i>
- <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>

- Implementation of adding records in notification table
 - On create of new reminder
 - On edit of existing reminder

-
- It calculates all possible dates of reminder depending on start_date , end_date and relative day. Adds one record each for calculated dates.
 - If a user edits a reminder , it deletes old records from the notifications table for that reminder, calculates new reminder dates and adds new records.
 - On #create of Reminder
 - Calculates number of months
 - For every month , it calculates a date
 - Creates an entry in notification table date = calculated date
 - On #edit of Reminder
 - Deletes old notifications
 - Calculates number of months
 - For every month , it calculates a date
 - Creates an entry in notification table date = calculated date
 - On deleting reminder , it deletes all associated notifications
 - Git commit
 - <https://github.com/amrutapednekar/ScheduledReminders/commit/509c078420e0f9e057088ec80364ecd62e16c9d5>
 - Note
 - Notification table is created to separate out functionality of sending emails from main application
 - Column *is_active* is created, if in case developer decides to unflag old notifications instead of hard delete
 -

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Send email for each notification

- Create the Mailer
 - `rails generate mailer Notification`
- Implementation of ActionMailer
- Action Mailer Configuration for Gmail

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Editing Reminder

Title
Reminder for house rent

Body
Do not forget to pay house rent.

Time
19:45

Start date
26/02/2022

End date
17/03/2022

Relative Days

You can enter only one from below options.

1. Every th day of a month
2. days before End of the month
3. ☐ Last day of the month

Update Reminder

Welcome to Scheduled Reminder Application

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Reminder was successfully updated.

Title: Reminder for house rent

Body: Do not forget to pay house rent.

Time: 2022-02-26 19:45:00 UTC

Start date: 2022-02-26

End date: 2022-03-17

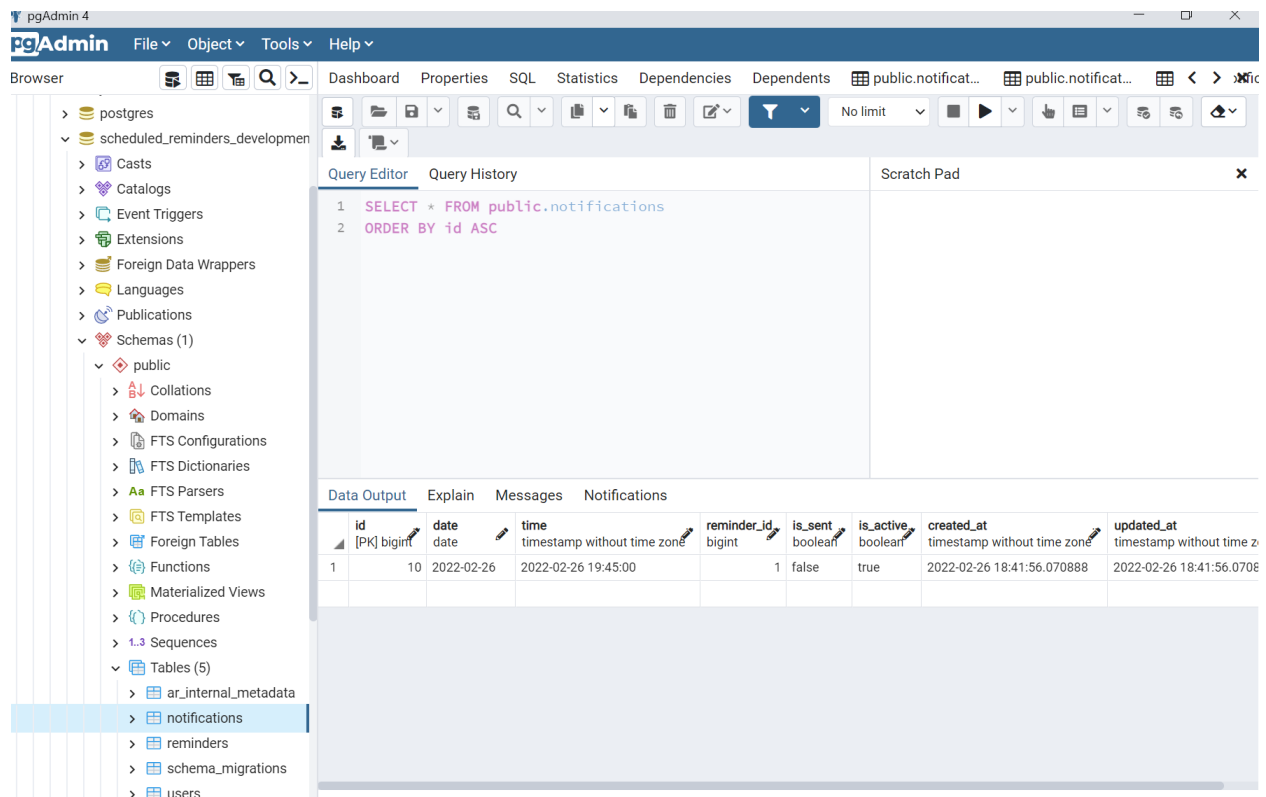
Day of month:

Day before eom: 2

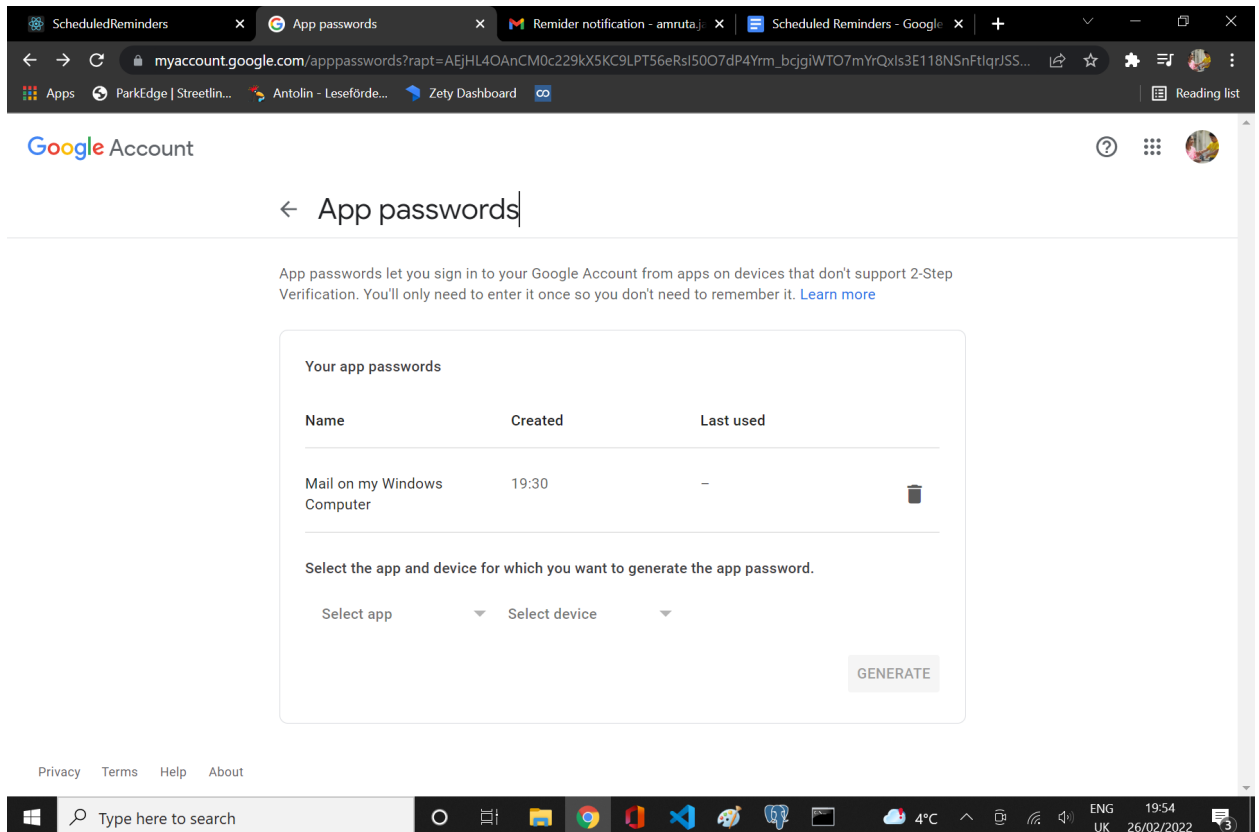
Last day month: false

[Edit](#) | [Back](#)

Logout



- Setup of Google account App password for Windows Mail
- It's not my GMAIL account password. For Action Mailer we need to create new App password through Gmail account.
- Please follow below link to create app password
 - <https://support.google.com/accounts/answer/185833?hl=en>
- This app password is created for a short time and temporarily. Once the Code Task Review is done, I will delete this password from my account.

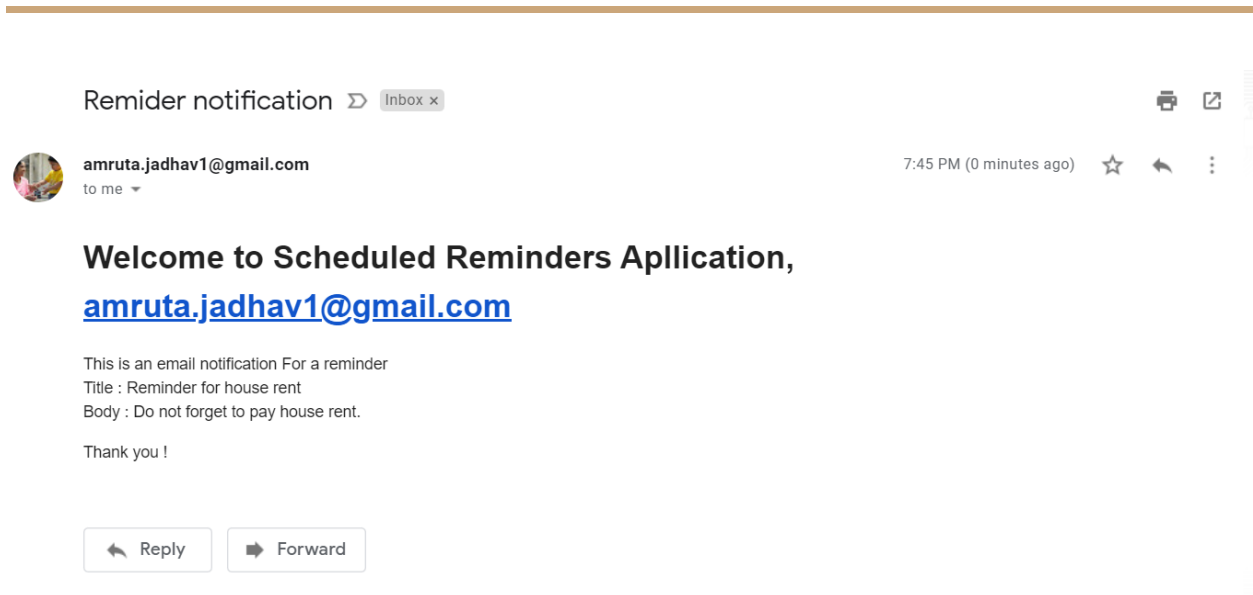


- Run rake task in console
 - `rake send_reminder_email:my_task`

```
C:\Users\amrut\OneDrive\Desktop\Amruta\ScheduledReminders>rake send_reminder_email:my_task
"email sent"

C:\Users\amrut\OneDrive\Desktop\Amruta\ScheduledReminders>
```

- User gets email notification for reminder on selected date and time



- Git commit
 - <https://github.com/amrutapednekar/ScheduledReminders/commit/d7513a736c25f4b3ab8b6e605c2e7d6ebf51ac9d>

User model Rspec

- Add below code in Gemfile under development ENV

```
◦ #Rspec
◦ gem 'rspec-rails', '~> 5.0.0'
```

◦

- Add below code in Gemfile under test ENV

```
◦ gem 'shoulda-matchers'
```

```
◦ gem install shoulda-matchers -v 5.1.0
```

- This Gem version is specially require to check

```
◦ it { should
  validate_numericality_of(:day_before_eom).is_greater_than_or_e
  qual_to(1) }
```

◦

- Generated rspec for User
 - bundle install
 - rails generate rspec:install
 - rails db:migrate RAILS_ENV=test
 - rails generate rspec:model user

-
- Add Below code in spec/rails_helper.rb
 - `RSpec.configure do |config|`
 - `config.include(Shoulda::Matchers::ActiveModel, type: :model)`
 - `config.include(Shoulda::Matchers::ActiveRecord, type: :model)`
 - `End`
 - `bundle exec rspec spec/models`
 - Git commit
 - <https://github.com/amrutapednekar/ScheduledReminders/commit/2bc7183dc4e9f6d75ae78e29549578d460ebd89a>

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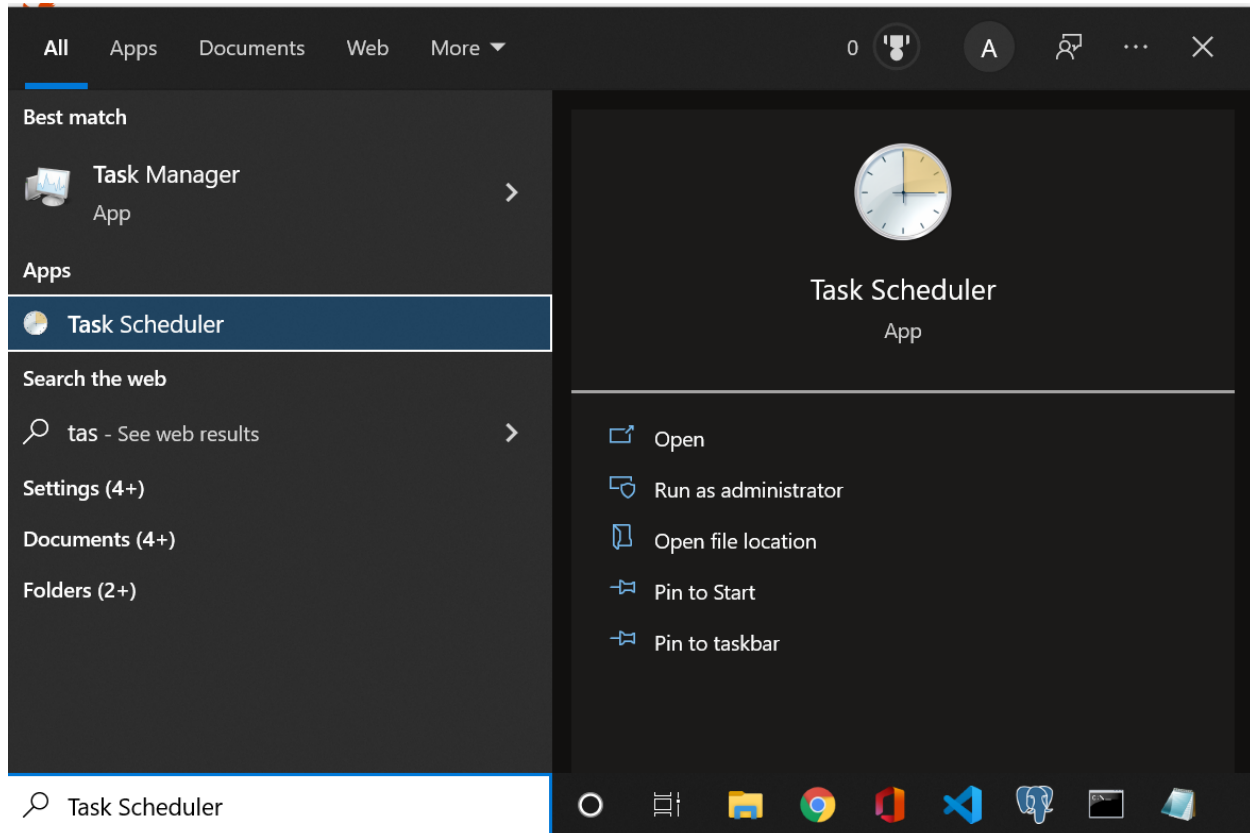
Reminder model Rspec

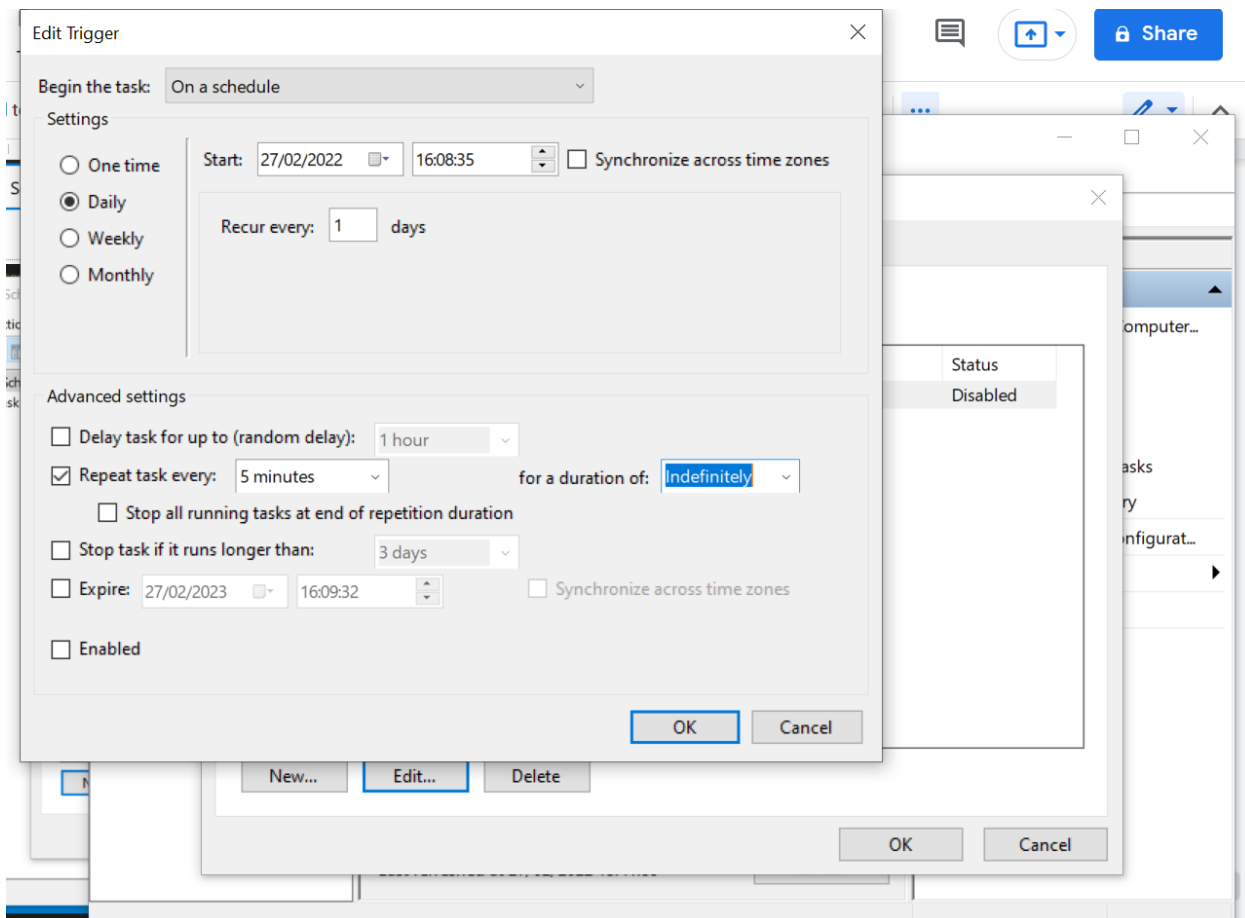
- Generated rspec for Reminder
 - `rails generate rspec:model reminder`
 - `bundle exec rspec spec/models`
- Git commit
 - <https://github.com/amrutapednekar/ScheduledReminders/commit/955fe0733c1c784b20bea4d23c9045e0d01a29d6>

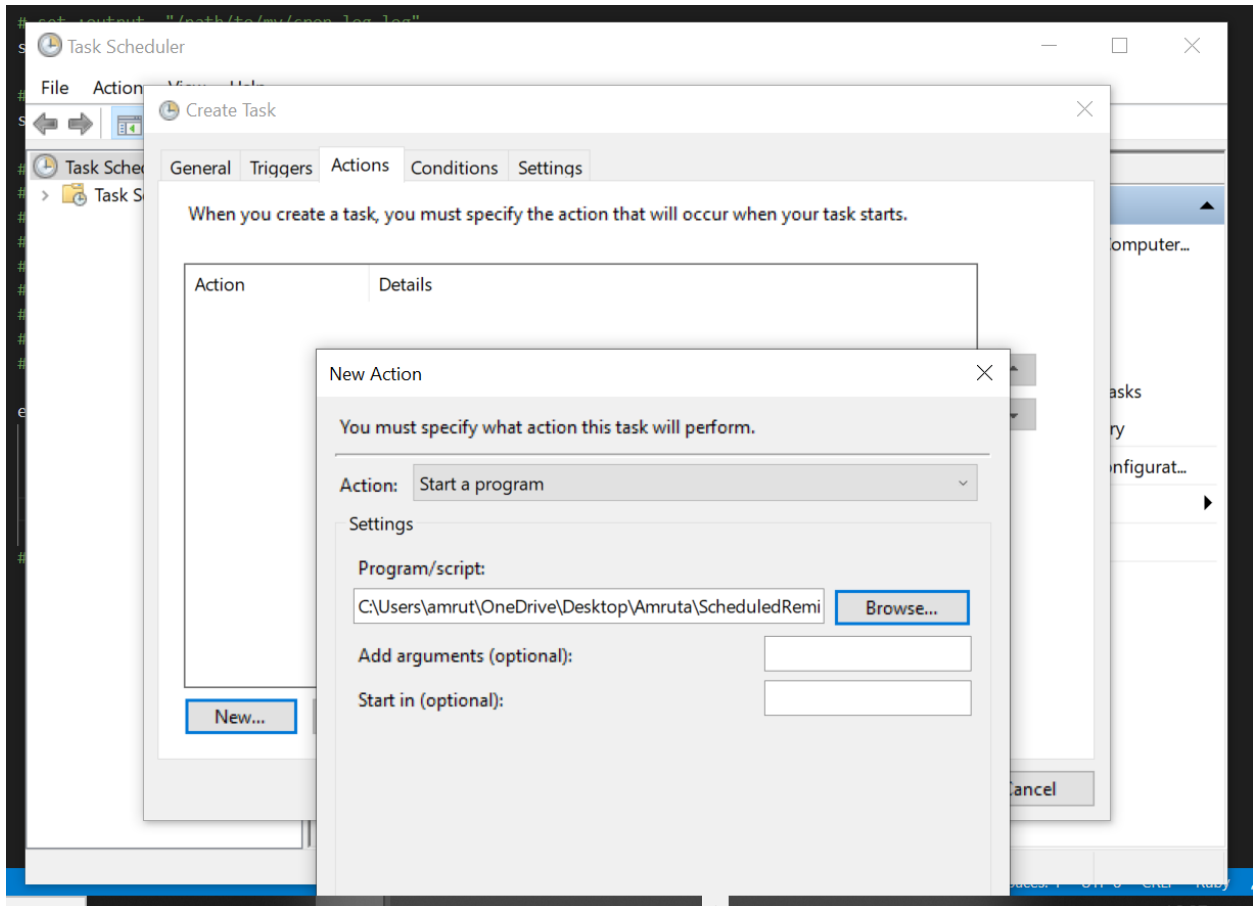
Schedule a rake task to send reminder email with whenever gem

- Add whenever gem in GemFile
 - `gem 'whenever', require: false`
 - `bundle instal`
 - `bundle exec wheneverize .`
- Add rake task in config/schedule.rb that will run once in every 5 minute
- Git commit
 - <https://github.com/amrutapednekar/ScheduledReminders/commit/b847f0f0aed1bb9af1791efee86fe83ca396e17d>
- Convert schedule file into cron syntax
 - `bundle exec whenever`
- Set crontab
 - `whenever --update-crontab`

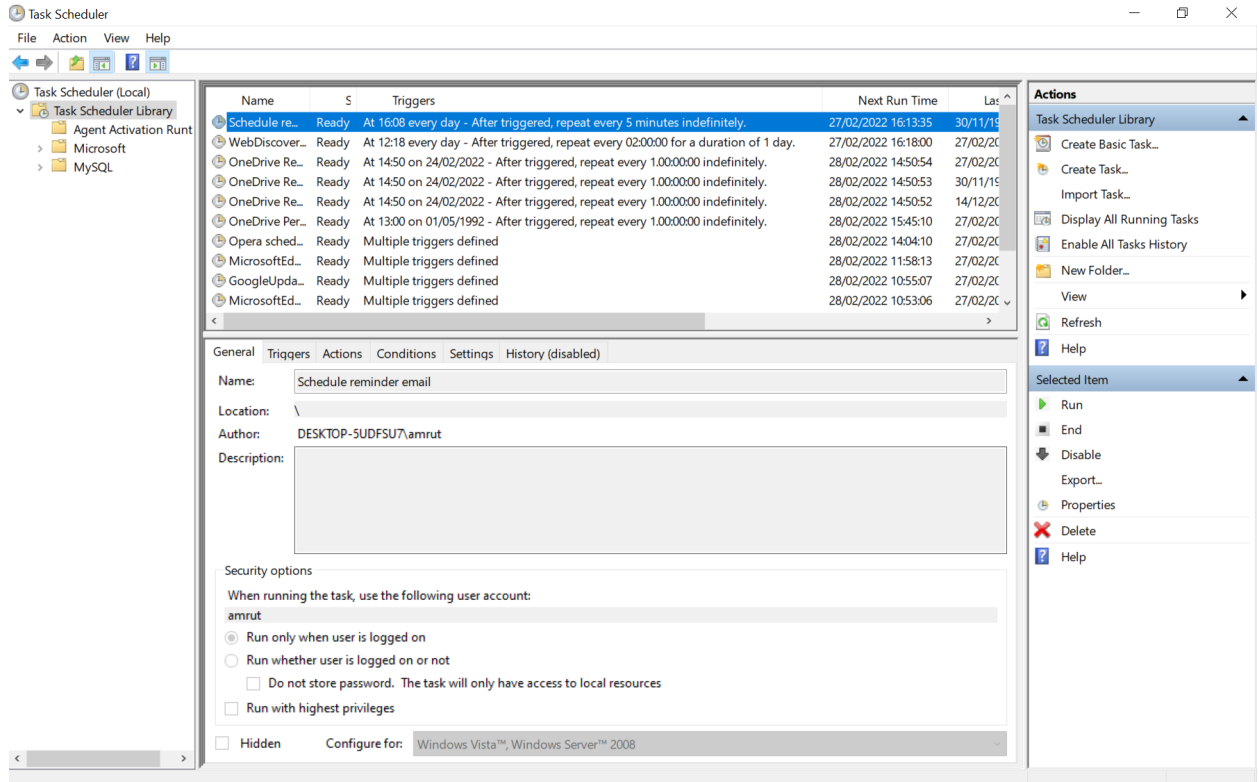
- Set crontab
 - the `whenever` gem only runs on *nix systems (Linux, Mac OSX, BSD, ...) and not on windows.
- Or schedule it through Task Scheduler if you are using Windows







- Task scheduled in Windows



1 March 2022

Rspec

- Session is not accessible in spec/requests
- To access session and check user authenticate before any action
 - user one has to write controller spec instead of requests spec
 - Tried to create spec/controller
 - rails g rspec:controller sessions
 - rails g rspec:controller users
 - gem 'rails-controller-testing'
 - bundle install
 - Rails 6 does not create any controller rspec. It creates by default requests rspec which doesn't allow you to set a session.
 - Tried same with test/controllers/sessions_controller_test.rb
 - It doesn't allow you to set a session.
 - Error : undefined method session' for nil:NilClass

- To write controller and integration test case (both inside test and spec) need to set session
- Git commit
 - <https://github.com/amrutapednekar/ScheduledReminders/commit/874a9243c779637a9dea7c06a7b06be64df7da02>

Created README file

3 March 2022

Invalid authentication error message

- Invalid authentication error message
 - If user enters incorrect email id/ password on login
 - If users does not enter email id or password on login

Welcome to Scheduled Reminder Application
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Login

Invalid authentication. Please enter correct email address and password

Email

Password

OR

- Git commit
 - <https://github.com/amrutapednekar/ScheduledReminders/commit/9216a370b9743defa698861deee96ddbda4306b3>

Notification is sent flag

- After sending email notification set is_sent to true
- Git commit
 - <https://github.com/amrutapednekar/ScheduledReminders/commit/055a3de6f85689b42b511f6c0b0393ec78f80c20>

4 & 7 March 2022

Rspec

- Created module to access session in test environment
- Created separate route of session controller for test env
- Reminder Rspec
- Notifications Rspec
- Run Rspec

```
bundle exec rspec spec
```