




# การบ้านครั้งที่2

# BDD-CUCUMBER

 saasbook2e ▾

 5 branches

 0 tags



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This branch is [44 commits ahead](#), [1 commit behind](#) master.

 **armandofox** update README, add lofi storyboard 12e2472 on Nov 23, 2019  **44** commits

 rottenpotatoes	integrate material previously in sec 6.8 of ESaaS on trying a simple ...	4 years ago
 .gitignore	remove and ignore transient files	7 years ago
 README.md	update README, add lofi storyboard	4 years ago
 storyboard.png	update README, add lofi storyboard	4 years ago

 **README.md**

## BDD and Cucumber

**NOTE: Do not clone this repo to your workspace. Fork it first, then clone your fork.**

In this assignment you will create user stories to describe a feature of a SaaS app, use the Cucumber tool to turn those stories into executable acceptance tests, and run the tests against your SaaS app.

# setup

○ aimpree@aimpree-virtual-machine:~/Desktop/hw2\_6410301013\_star/hw-bdd-cucumber-saasbook2e/rottenpotatoes\$ bundle install --without production

○ aimpree@aimpree-virtual-machine:~/Desktop/hw2\_6410301013\_star/hw-bdd-cucumber-saasbook2e/rottenpotatoes\$ rails generate cucumber:install --capybara

○ aimpree@aimpree-virtual-machine:~/Desktop/hw2\_6410301013\_star/hw-bdd-cucumber-saasbook2e/rottenpotatoes\$ rails generate cucumber\_rails\_training\_wheels:install

# run cucumber add\_movie.feature

```
aimpre@aimpre-virtual-machine:~/Desktop/hw2_6410301013_star/hw-bdd-cucumber-saasbook2e/rottenpotatoes$ bundle exec cucumber features/add_movie.feature
```

```
1  Feature: User can manually add movie
2
3  Background: movies have been added to database
4
5      Given the following movies exist:
6      | title           | rating | release_date |
7      | Aladdin          | G      | 25-Nov-1992  |
8      | The Terminator   | R      | 26-Oct-1984  |
9      | When Harry Met Sally | R      | 21-Jul-1989  |
10     | The Help         | PG-13  | 10-Aug-2011  |
11     | Chocolat         | PG-13  | 5-Jan-2001   |
12     | Amelie           | R      | 25-Apr-2001  |
13     | 2001: A Space Odyssey | G      | 6-Apr-1968   |
14     | The Incredibles  | PG      | 5-Nov-2004   |
15     | Raiders of the Lost Ark | PG     | 12-Jun-1981  |
16     | Chicken Run      | G      | 21-Jun-2000  |
17
18     And I am on the RottenPotatoes home page
19
20  Scenario: Add a movie 1
21      Given I am on the RottenPotatoes home page
22      When I follow "Add new movie"
23      Then I should be on the Create New Movie page
24      When I fill in "Title" with "Men In Black"
25      And I select "PG-13" from "Rating"
26      And I press "Save Changes"
27      Then I should be on the RottenPotatoes home page
28      And I should see "Men In Black"
```

scenario 1 failed  
step 1 failed , 7 skipped

```
Scenario: Add a movie # features/add_movie.feature:3
  Given I am on the RottenPotatoes home page # features/step_definitions/web_steps.rb:44
    Can't find mapping from "the RottenPotatoes home page" to a path.
    Now, go and add a mapping in /home/aimpre@Desktop/ex_/hw-bdd-cucumber-saasbook2e/rottenpotatoes
  rb (RuntimeError)
    ./features/support/paths.rb:25:in `path to'
    ./features/step_definitions/web_steps.rb:45:in `^(?:|I) am on (.+)$/'
    features/add_movie.feature:4:in `Given I am on the RottenPotatoes home page'
  When I follow "Add new movie" # features/step_definitions/web_steps.rb:56
  Then I should be on the Create New Movie page # features/step_definitions/web_steps.rb:230
  When I fill in "Title" with "Men In Black" # features/step_definitions/web_steps.rb:60
  And I select "PG-13" from "Rating" # features/step_definitions/web_steps.rb:85
  And I press "Save Changes" # features/step_definitions/web_steps.rb:52
  Then I should be on the RottenPotatoes home page # features/step_definitions/web_steps.rb:230
  And I should see "Men In Black" # features/step_definitions/web_steps.rb:105
```

Running Scenarios:

```
1 scenario (1 failed)
7 steps (1 failed, 7 skipped)
0.029s
```

```
aimpre@aimpre-virtual-machine:~/Desktop/ex_/hw-bdd-cucumber-saasbook2e/rottenpotatoes$
```

scenario 1 passed  
1 failed , 7 skipped

```
Background: movies have been added to database # features/add_movie.feature:3
  Given the following movies exist: # features/step_definitions/movie_steps.rb:3
```

title	rating	release_date
Aladdin	G	25-Nov-1992
The Terminator	R	26-Oct-1984
When Harry Met Sally	R	21-Jul-1989
The Help	PG-13	10-Aug-2011
Chocolat	PG-13	5-Jan-2001
Amelie	R	25-Apr-2001
2001: A Space Odyssey	G	6-Apr-1968
The Incredibles	PG	5-Nov-2004
Raiders of the Lost Ark	PG	12-Jun-1981
Chicken Run	G	21-Jun-2000

```
And I am on the RottenPotatoes home page # features/step_definitions/web_steps.rb:44
```

```
Scenario: Add a movie 1 # features/add_movie.feature:20
  Given I am on the RottenPotatoes home page # features/step_definitions/web_steps.rb:44
  When I follow "Add new movie" # features/step_definitions/web_steps.rb:56
```

```
DEPRECATION: Using 'should' from rspec-expectations' old ':should' syntax without explicitly enabling the syntax.
  lically enable ':should' with 'config.expect_with(:rspec) { |c| c.syntax = :should }' instead. Called from /home/
  r-saasbook2e/rottenpotatoes/features/step_definitions/web_steps.rb:233:in 'block in <top (required)>'.
  Then I should be on the Create New Movie page # features/step_definitions/web_steps.rb:230
```

```
  When I fill in "Title" with "Men In Black" # features/step_definitions/web_steps.rb:60
  And I select "PG-13" from "Rating" # features/step_definitions/web_steps.rb:85
  And I press "Save Changes" # features/step_definitions/web_steps.rb:52
  Then I should be on the RottenPotatoes home page # features/step_definitions/web_steps.rb:230
  And I should see "Men In Black" # features/step_definitions/web_steps.rb:105
```

```
1 scenario (1 passed)
10 steps (10 passed)
0m0.425s
```

```
● aimpre@aimpre-virtual-machine:~/Desktop/hw2_6410301013_star/hw-bdd-cucumber-saasbook2e/rottenpotatoes$ ruby -v
ruby 2.6.6p146 (2020-03-31 revision 67876) [x86_64-linux]
○ aimpre@aimpre-virtual-machine:~/Desktop/hw2_6410301013_star/hw-bdd-cucumber-saasbook2e/rottenpotatoes$
```

# ตัวอย่างการทำงาน

```
Given I am on the RottenPotatoes home page # features/step_definitions/web_steps.rb:44
Then I should be on the Create New Movie page # features/step_definitions/web_steps.rb:230
```

เริ่มต้น ให้จำลองเริ่มจาก “Rottenpotatoes home page” และเมื่อ ทำการกด “Add new movie”

```
44 Given /^(?:|I )am on (.+)$/ do |page_name|
45   visit path_to(page_name)
46 end
```

```
230 Then /^(?:|I )should be on (.+)$/ do |page_name|
231   current_path = URI.parse(current_url).path
232   if current_path.respond_to? :should
233     current_path.should == path_to(page_name)
234   else
235     assert_equal path_to(page_name), current_path
236   end
237 end
```

```
when /^the (RottenPotatoes )?home\s?page$/ then '/movies'
when /^the movies page$/ then '/movies'
```

```
when / the movies page$/ then '/movies'
when /^the Create New Movie page$/ then '/movies/new'
```

# ตัวอย่างการทำงาน

```
when /the movies page/ then /movies/
#when /^the Create New Movie page$/ then '/movies/new'
```

```
required)>'.
Then I should be on the Create New Movie page # features/step_definitions/web_steps.rb:230
Capybara::ExpectationNotMetError: Expected "the Create New Movie page" to be visible
```

Scenario จะ failed ไปด้วยเพราะ Head

```
1 scenario (1 failed)
10 steps (1 failed, 5 skipped, 4 passed)
0m0.100s
```



# run cucumber filter\_movie\_list.feature

```
aimpre@aimpre-virtual-machine:~/Desktop/hw2_6410301013_star/hw-bdd-cucumber-saasbook2e/rottenpotatoes$ bundle exec cucumber features/filter_movie_list.feature
```

Feature: display list of movies filtered by MPAA rating

As a concerned parent  
So that I can quickly browse movies appropriate for my family  
I want to see movies matching only certain MPAA ratings

Background: movies have been added to database

Given the following movies exist:

title	rating	release_date	
Aladdin	G	25-Nov-1992	
The Terminator	R	26-Oct-1984	
When Harry Met Sally	R	21-Jul-1989	
The Help	PG-13	10-Aug-2011	
Chocolat	PG-13	5-Jan-2001	
Amelie	R	25-Apr-2001	
2001: A Space Odyssey	G	6-Apr-1968	
The Incredibles	PG	5-Nov-2004	
Raiders of the Lost Ark	PG	12-Jun-1981	
Chicken Run	G	21-Jun-2000	

And I am on the RottenPotatoes home page  
#Then 10 seed movies should exist

Scenario: restrict to movies with 'PG' or 'R' ratings

# enter step(s) to check the 'PG' and 'R' checkboxes  
# enter step(s) to uncheck all other checkboxes  
# enter step to "submit" the search form on the homepage  
# enter step(s) to ensure that PG and R movies are visible  
# enter step(s) to ensure that other movies are not visible

Given I am on the home page  
When I uncheck the following ratings: G, NC-17, PG-13  
And I press "Refresh" button  
Then I should see the following movies: The Terminator, The Incredibles  
And I should not see the following movies: Chicken Run, The Melp

When I uncheck the following ratings: G, PG, PG-13, NC-17, R  
And I press "Refresh" button  
Then I should see the following movies: the The Terminator, The Incredibles  
And I should not see the following movies: Chicken return, The Melp

scenario: all rating selected

Given I am on the home page  
When I check the following ratings: G, PG, PG-13, NC-17, R  
And I press "Refresh" button  
Then I should see all the movies



# run cucumber filter\_movie\_list.feature

```
Given the following movies exist: # features/step_definitions/movie_steps.rb:3
| title | rating | release_date |
| Aladdin | G | 25-Nov-1992 |
| The Terminator | R | 26-Oct-1984 |
| When Harry Met Sally | R | 21-Jul-1989 |
| The Help | PG-13 | 10-Aug-2011 |
| Chocolat | PG-13 | 5-Jan-2001 |
| Amelie | R | 25-Apr-2001 |
| 2001: A Space Odyssey | G | 6-Apr-1968 |
| The Incredibles | PG | 5-Nov-2004 |
| Raiders of the Lost Ark | PG | 12-Jun-1981 |
| Chicken Run | G | 21-Jun-2000 |
Unimplemented (RuntimeError)
./features/step_definitions/movie_steps.rb:8:in `the following movies exist:'
features/filter_movie_list.feature:9:in `Given the following movies exist:'
And I am on the RottenPotatoes home page # features/step_definitions/web_steps.rb:44
Then 10 seed movies should exist # features/step_definitions/movie_steps.rb:11

Scenario: restrict to movies with 'PG' or 'R' ratings # features/filter_movie_list.feature:25

# enter step(s) to check the 'PG' and 'R' checkboxes
# enter step(s) to uncheck all other checkboxes
# enter step to "submit" the search form on the homepage
# enter step(s) to ensure that PG and R movies are visible
# enter step(s) to ensure that other movies are not visible
Scenario: all ratings selected # features/filter_movie_list.feature:32

Failing Scenarios:
cucumber features/filter_movie_list.feature:25 # Scenario: restrict to movies with 'PG' or 'R' ratings
cucumber features/filter_movie_list.feature:32 # Scenario: all ratings selected

scenarios (2 failed)
steps (2 failed, 4 skipped)
m0.021s
impree@aimpree-virtual-machine:~/Desktop/ex/hw-bdd-cucumber-saasbook2e/rottenpotatoes$
```

You can implement step definitions for undefined steps with these snippets:

```
Then(/^I should not see the following movies: Chicken Run, The Melp$/) do
  pending # Write code here that turns the phrase above into concrete actions
end
```

```
Then(/^I should not see the following movies: Chicken return, The Melp$/) do
  pending # Write code here that turns the phrase above into concrete actions
end
```

```
Given the following movies exist: # features/step_definitions/movie_steps.rb:3
```

title	rating	release_date
Aladdin	G	25-Nov-1992
The Terminator	R	26-Oct-1984
When Harry Met Sally	R	21-Jul-1989
The Help	PG-13	10-Aug-2011
Chocolat	PG-13	5-Jan-2001
Amelie	R	25-Apr-2001
2001: A Space Odyssey	G	6-Apr-1968
The Incredibles	PG	5-Nov-2004
Raiders of the Lost Ark	PG	12-Jun-1981
Chicken Run	G	21-Jun-2000

```
And I am on the RottenPotatoes home page # features/step_definitions/web_steps.rb:44
```

```
#Then 10 seed movies should exist
```

```
Scenario: restrict to movies with 'PG' or 'R' ratings
```

```
# features/filter_movie_list.feature:25
```

```
  # enter step(s) to check the 'PG' and 'R' checkboxes
```

```
  # enter step(s) to uncheck all other checkboxes
```

```
  # enter step to "submit" the search form on the homepage
```

```
  # enter step(s) to ensure that PG and R movies are visible
```

```
  # enter step(s) to ensure that other movies are not visible
```

```
Given I am on the home page
```

```
# features/step_definitions/web_steps.rb:44
```

```
When I uncheck the following ratings: G, NC-17, PG-13
```

```
# features/step_definitions/movie_steps.rb:60
```

```
And I press "Refresh" button
```

```
# features/step_definitions/movie_steps.rb:23
```

```
Then I should see the following movies: The Terminator, The Incredibles
```

```
# features/step_definitions/movie_steps.rb:74
```

```
And I should not see the following movies: Chicken Run, The Melp
```

```
# features/filter_movie_list.feature:36
```

```
  Undefined step: "I should not see the following movies: Chicken Run, The Melp" (Cucumber::Undefined)
```

```
  features/filter_movie_list.feature:36:in 'And I should not see the following movies: Chicken Run, The Melp'
```

```
When I uncheck the following ratings: G, PG, PG-13, NC-17, R
```

```
# features/step_definitions/movie_steps.rb:60
```

```
And I press "Refresh" button
```

```
# features/step_definitions/movie_steps.rb:23
```

```
Then I should see the following movies: the The Terminator, The Incredibles
```

```
# features/step_definitions/movie_steps.rb:74
```

```
And I should not see the following movies: Chicken return, The Melp
```

```
# features/filter_movie_list.feature:41
```

```
  Undefined step: "I should not see the following movies: Chicken return, The Melp" (Cucumber::Undefined)
```

```
  features/filter_movie_list.feature:41:in 'And I should not see the following movies: Chicken return, The Melp'
```

```
Scenario: all rating selected
```

```
# features/filter_movie_list.feature:43
```

```
Given I am on the home page
```

```
# features/step_definitions/web_steps.rb:44
```

```
When I check the following ratings: G, PG, PG-13, NC-17, R
```

```
# features/step_definitions/movie_steps.rb:60
```

```
And I press "Refresh" button
```

```
# features/step_definitions/movie_steps.rb:23
```

```
Then I should see all the movies
```

```
# features/step_definitions/movie_steps.rb:87
```

```
2 scenarios (1 undefined, 1 passed)
```

```
17 steps (3 skipped, 2 undefined, 12 passed)
```

ประกาศใน movie\_step.rb

```
Then /I should (not)? see the following movies: "(.*)"/ do |present, movies_list|
  movies = movies_list.split(', ')
  movies.each do |movie|
    if not_present.nil?
      expect(page).to have_content(movie)
    else
      expect(page).not_to have_content(movie)
    end
  end
end
```

# run cucumber sort\_movie\_list.feature

```
hw-bdd-cucumber-saasbook2e > rottenpotatoes > features > ≡ sort_movie_list.feature
1  Feature: display list of movies sorted by different criteria
2
3    As an avid moviegoer
4    So that I can quickly browse movies based on my preferences
5    I want to see movies sorted by title or release date
6
7  Background: movies have been added to database
8
9    Given the following movies exist:
10   | title                | rating | release_date |
11   | Aladdin              | G      | 25-Nov-1992  |
12   | The Terminator       | R      | 26-Oct-1984  |
13   | When Harry Met Sally | R      | 21-Jul-1989  |
14   | The Help             | PG-13  | 10-Aug-2011  |
15   | Chocolat             | PG-13  | 5-Jan-2001   |
16   | Amelie               | R      | 25-Apr-2001  |
17   | 2001: A Space Odyssey | G      | 6-Apr-1968   |
18   | The Incredibles      | PG     | 5-Nov-2004   |
19   | Raiders of the Lost Ark | PG    | 12-Jun-1981  |
20   | Chicken Run          | G      | 21-Jun-2000  |
21
22   And I am on the RottenPotatoes home page
23   Then 10 seed movies should exist
24
25  Scenario: sort movies alphabetically 3
26    When I follow "Movie Title"
27    # your steps here
28
29
30  Scenario: sort movies in increasing order of release date 4
31    When I follow "Release Date"
32    # your steps here
33
```

# run cucumber sort\_movie\_list.feature

```
Background: movies have been added to database # features/sort_movie_list.feature:7
  Given the following movies exist: # features/step_definitions/movie_steps.rb:3
    | title | rating | release_date |
    | Aladdin | G | 25-Nov-1992 |
    | The Terminator | R | 26-Oct-1984 |
    | When Harry Met Sally | R | 21-Jul-1989 |
    | The Help | PG-13 | 10-Aug-2011 |
    | Chocolat | PG-13 | 5-Jan-2001 |
    | Amelie | R | 25-Apr-2001 |
    | 2001: A Space Odyssey | G | 6-Apr-1968 |
    | The Incredibles | PG | 5-Nov-2004 |
    | Raiders of the Lost Ark | PG | 12-Jun-1981 |
    | Chicken Run | G | 21-Jun-2000 |
  Unimplemented (RuntimeError)
    ./features/step_definitions/movie_steps.rb:8:in `the following movies exist/'
  features/sort_movie_list.feature:9:in `Given the following movies exist:'
  And I am on the RottenPotatoes home page # features/step_definitions/web_steps.rb:44
  Then 10 seed movies should exist # features/step_definitions/movie_steps.rb:11

Scenario: sort movies alphabetically # features/sort_movie_list.feature:25
  When I follow "Movie Title" # features/step_definitions/web_steps.rb:56

# your steps here
Scenario: sort movies in increasing order of release date # features/sort_movie_list.feature:29
  When I follow "Release Date" # features/step_definitions/web_steps.rb:56

Failing Scenarios:
cucumber features/sort_movie_list.feature:25 # Scenario: sort movies alphabetically
cucumber features/sort_movie_list.feature:29 # Scenario: sort movies in increasing order of release date

2 scenarios (2 failed)
8 steps (2 failed, 6 skipped)
0m0.056s
o aimpre@aimpre-virtual-machine:~/Desktop/ex_/_hw-bdd-cucumber-saasbook2e/rottenpotatoes$
```

```
Background: movies have been added to database # features/sort_movie_list.feature:7
  Given the following movies exist: # features/step_definitions/movie_steps.rb:3
    | title | rating | release_date |
    | Aladdin | G | 25-Nov-1992 |
    | The Terminator | R | 26-Oct-1984 |
    | When Harry Met Sally | R | 21-Jul-1989 |
    | The Help | PG-13 | 10-Aug-2011 |
    | Chocolat | PG-13 | 5-Jan-2001 |
    | Amelie | R | 25-Apr-2001 |
    | 2001: A Space Odyssey | G | 6-Apr-1968 |
    | The Incredibles | PG | 5-Nov-2004 |
    | Raiders of the Lost Ark | PG | 12-Jun-1981 |
    | Chicken Run | G | 21-Jun-2000 |
  And I am on the RottenPotatoes home page # features/step_definitions/web_steps.rb:44
  Then 10 seed movies should exist # features/step_definitions/web_steps.rb:253

Scenario: sort movies alphabetically 3 # features/sort_movie_list.feature:25
  When I follow "Movie Title" # features/step_definitions/web_steps.rb:56

# your steps here
Scenario: sort movies in increasing order of release date 4 # features/sort_movie_list.feature:30
  When I follow "Release Date" # features/step_definitions/web_steps.rb:56

2 scenarios (2 passed)
8 steps (8 passed)
0m0.406s
o aimpre@aimpre-virtual-machine:~/Desktop/hw2_6410301013_star/hw-bdd-cucumber-saasbook2e/rottenpotatoes$
```



# run cucumber search\_movie.feature

```
Scenario: Try to add nonexistent movie (sad path) # features/search_movie.feature:7
  Given I am on the RottenPotatoes home page # features/step_definitions/web_steps.rb:44
DEPRECATION: Using `should` from rspec-expectations' old `:should` syntax without explicitly enabling the syntax is deprecated.
  Using `expect` or `should` from rspec-expectations' new `:should` syntax without explicitly enabling the syntax is deprecated.
  Call `RSpec::Expectations.configuration.disable_expect_with(:rspec) { |c| c.syntax = :should }` instead. Called from:
  /Users/aimpreet/Projects/rottenpotatoes/features/step_definitions/web_steps.rb:107:in `block in <|
  Then I should see "Search TMDb for a movie" # features/step_definitions/web_steps.rb:105
    expected to find text "Search TMDb for a movie" in "Rotten Potatoes! All Movies Login with Facebook Include: G PG
    Rating Release Date More Info Add new movie" (RSpec::Expectations::ExpectationNotMetError)
    ./features/step_definitions/web_steps.rb:107:in `/(?:|I )should see "([~]*)"$/'
    features/search_movie.feature:10:in `Then I should see "Search TMDb for a movie"'
  When I fill in "Search Terms" with "Movie That Does Not Exist" # features/step_definitions/web_steps.rb:60
  And I press "Search TMDb" # features/step_definitions/web_steps.rb:52
  Then I should be on the RottenPotatoes home page # features/step_definitions/web_steps.rb:230
  And I should see "'Movie That Does Not Exist' was not found in TMDb." # features/step_definitions/web_steps.rb:105

Failing Scenarios:
cucumber features/search_movie.feature:7 # Scenario: Try to add nonexistent movie (sad path)

1 scenario (1 failed)
6 steps (1 failed, 4 skipped, 1 passed)
0m0.371s
o aimpreet@aimpreet-virtual-machine:~/Desktop/hw2_6410301013_star/hw-bdd-cucumber-saasbook2e/rottenpotatoes$
```

เกิดจากการที่ไม่ได้เอา API มา

# ทดลองเปิดเซฟ

```
aimpre@aimpre-virtual-machine: ~/Desktop/hw2_6410301013_star/hw-bdd-cucumber-saasbook2e/rottenpotatoes$ rails server
```

```
/usr/share/rvm/gems/ruby-2.6.6/gems/activerecord-4.2.10.7/lib/active_record/connection_adapters/abstract/connection_pool.rb:111: warning: BigDecimal.new is deprecated; use BigDecimal() method instead.
```

```
WARNING: Cucumber-rails required outside of env.rb. The rest of loading is being deferred until env.rb is called.
```

```
To avoid this warning, move 'gem 'cucumber-rails', :require => false' under only group :test in your Gemfile.
```

```
If already in the :test group, be sure you are specifying ':require => false'.
```

```
=> Booting WEBrick
```

```
=> Rails 4.2.10 application starting in development on http://localhost:3000
```

```
=> Run 'rails server -h' for more startup options
```

```
=> Ctrl-C to shutdown server
```

```
DEPRECATION WARNING: Sprockets method `register_engine` is deprecated.
```

```
Please register a mime type using `register_mime_type` then
```

```
use `register_compressor` or `register_transformer`.
```

```
https://github.com/rails/sprockets/blob/master/guides/extending\_sprockets.md#supporting-all-versions-of-sprockets-in-processors
```

```
(called from block (2 levels) in <class:Railtie> at /usr/share/rvm/gems/ruby-2.6.6/gems/sass-rails-5.0.4/lib/sass/rails/railtie.rb:57)
```

```
DEPRECATION WARNING: Sprockets method `register_engine` is deprecated.
```

```
Please register a mime type using `register_mime_type` then
```

```
use `register_compressor` or `register_transformer`.
```

```
https://github.com/rails/sprockets/blob/master/guides/extending\_sprockets.md#supporting-all-versions-of-sprockets-in-processors
```

```
(called from block (2 levels) in <class:Railtie> at /usr/share/rvm/gems/ruby-2.6.6/gems/sass-rails-5.0.4/lib/sass/rails/railtie.rb:58)
```

```
[2023-02-17 03:15:29] INFO WEBrick 1.4.2
```

```
[2023-02-17 03:15:29] INFO ruby 2.6.6 (2020-03-31) [x86_64-linux]
```

```
[2023-02-17 03:15:29] INFO WEBrick::HTTPServer#start: pid=51060 port=3000
```

# ทดลองเปิดเซฟ

localhost:3000/movies?ratings[G]=1&ratings[NC-17]=1&ratings[PG]=1&ratings[PG-13]=1&ratings[R]=1&sort=title

Rotten Potatoes!

All Movies

Login with Facebook

Include: G ☒ PG ☒ PG-13 ☒ NC-17 ☒ R ☒ 

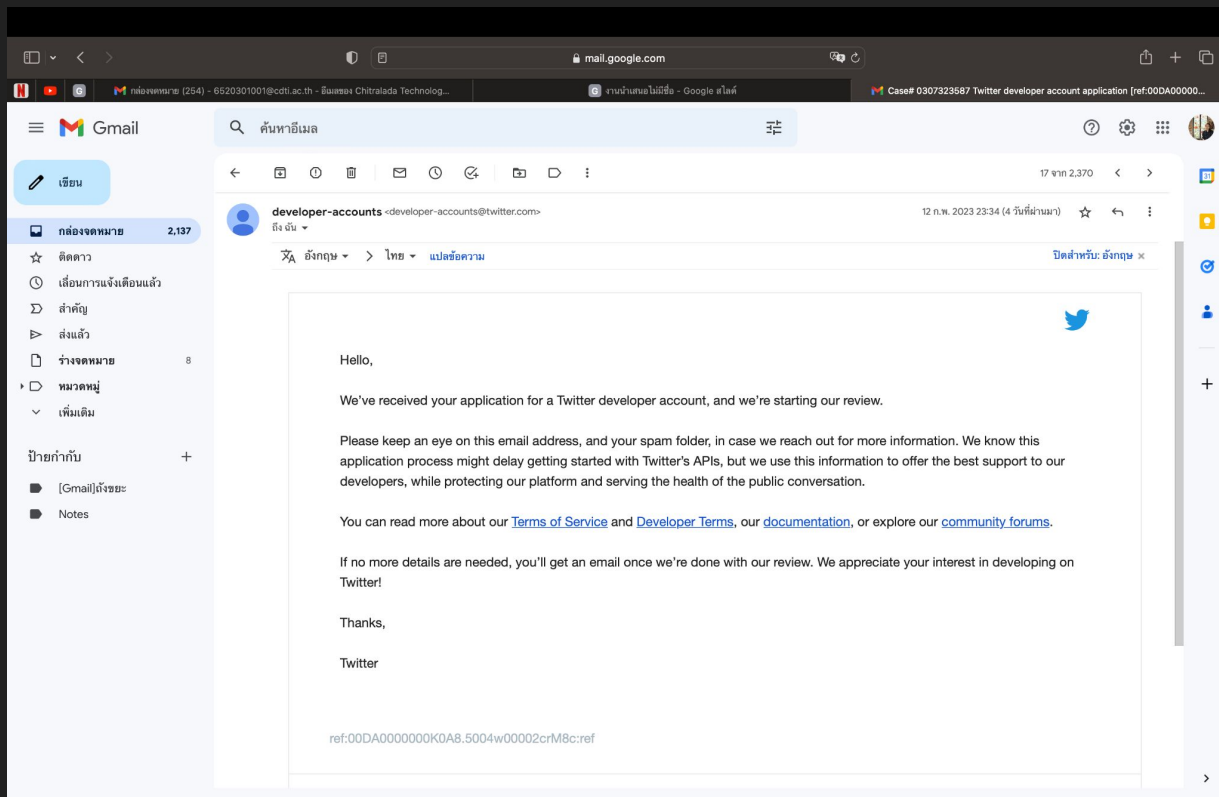
Refresh

Movie Title	Rating	Release Date	More Info
2001: A Space Odyssey	G	1968-04-06 00:00:00 UTC	<a href="#">More about 2001: A Space Odyssey</a>
Aladdin	G	1992-11-25 00:00:00 UTC	<a href="#">More about Aladdin</a>
Amelie	R	2001-04-25 00:00:00 UTC	<a href="#">More about Amelie</a>
Chicken Run	G	2000-06-21 00:00:00 UTC	<a href="#">More about Chicken Run</a>
Chocolat	PG-13	2001-01-05 00:00:00 UTC	<a href="#">More about Chocolat</a>
Raiders of the Lost Ark	PG	1981-06-12 00:00:00 UTC	<a href="#">More about Raiders of the Lost Ark</a>
The Help	PG-13	2011-08-10 00:00:00 UTC	<a href="#">More about The Help</a>
The Incredibles	PG	2004-11-05 00:00:00 UTC	<a href="#">More about The Incredibles</a>
The Terminator	R	1984-10-26 00:00:00 UTC	<a href="#">More about The Terminator</a>
When Harry Met Sally	R	1989-07-21 00:00:00 UTC	<a href="#">More about When Harry Met Sally</a>

[Add new movie](#)



# Twitter API



# การใช้งาน Git Version control



# git version control

## Git

คือ Version Control ที่ถูกพัฒนาขึ้นมาเพื่อใช้ในการกระบวนการพัฒนาซอฟต์แวร์ หรือ ระบบที่ถูกพัฒนาขึ้นมาเพื่อใช้ในการติดตาม ตรวจสอบ การพัฒนา แก้ไข ซอร์ซโค้ด ซอร์ซไฟล์ ต่าง ๆ ในขั้นตอนการพัฒนา ที่สามารถตรวจสอบได้ทุกตัวอักษร ทุกบรรทัด ทุกไฟล์ ที่มีการแก้ไข ใครเป็นคนแก้ไข และแก้ไข ณ วันที่เท่าไร

# การใช้งาน Git

แบ่งออกเป็น 2 ประเภท

# 1. Command Line

```
Command Prompt
Microsoft Windows [Version 10.0.19045.2486]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin>cd Desktop/

C:\Users\Admin\Desktop>mkdir gitvc

C:\Users\Admin\Desktop>cd gitvc

C:\Users\Admin\Desktop\gitvc>echo "# gitvc" >> README.md

C:\Users\Admin\Desktop\gitvc>git init
Initialized empty Git repository in C:/Users/Admin/Desktop/gitvc/.git/

C:\Users\Admin\Desktop\gitvc>git add README.md

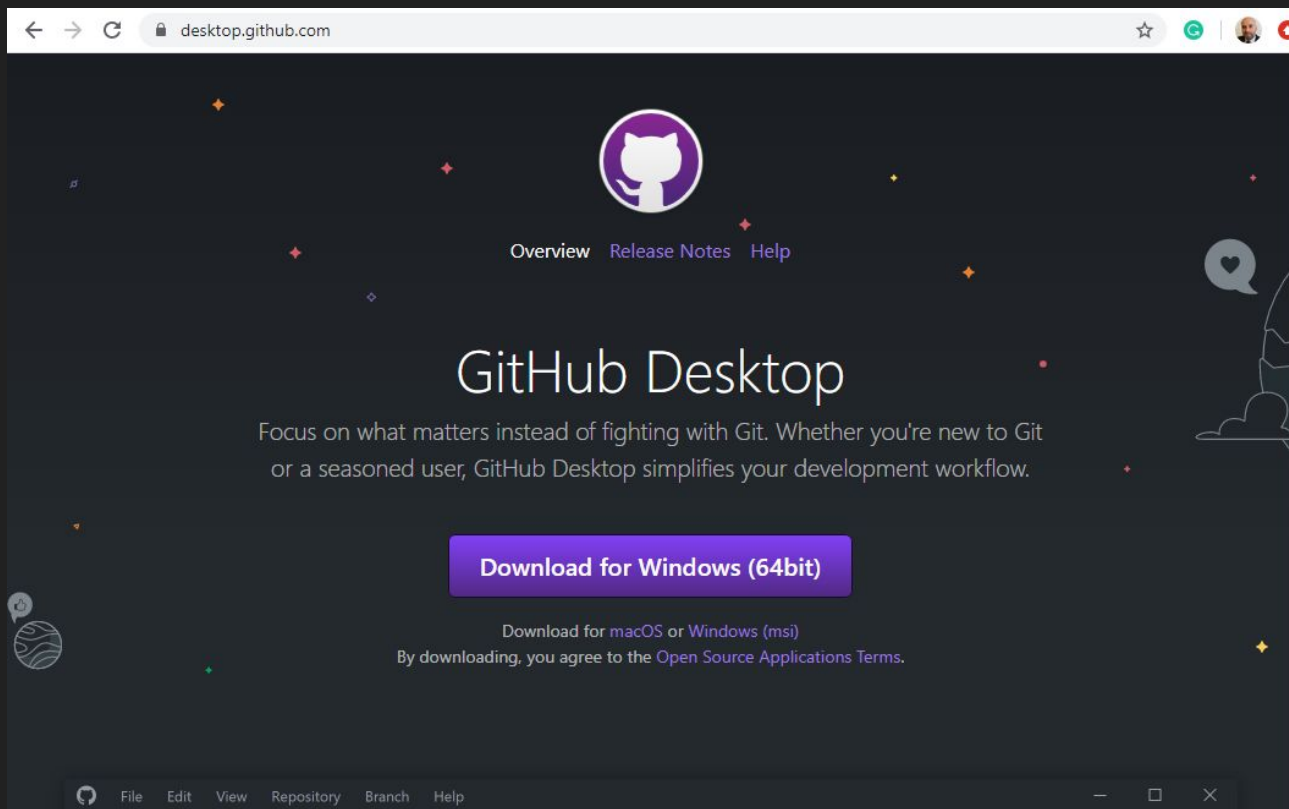
C:\Users\Admin\Desktop\gitvc>git commit -m "first commit"
[master (root-commit) 9062a9e] first commit
1 file changed, 1 insertion(+)
create mode 100644 README.md

C:\Users\Admin>git branch -M main

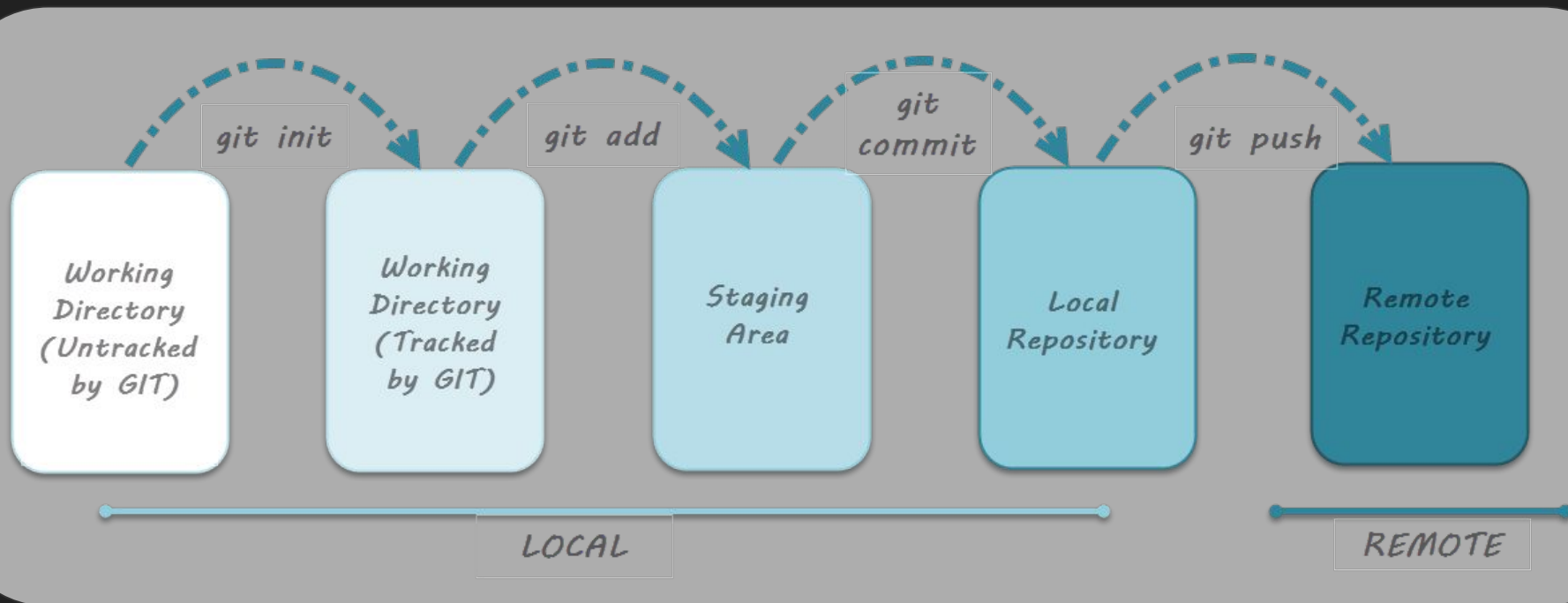
C:\Users\Admin>git remote add origin https://github.com/6520301002/gitvc.git

C:\Users\Admin>git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 221 bytes | 221.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/6520301002/gitvc.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

## 2. Git GUI




# วงจรการทำงานของ Git





# การ Downloads git




 **git** --everything-is-local

Search entire site...


[About](#)  
[Documentation](#)  
[Downloads](#)  
[GUI Clients](#)  
[Logos](#)  
[Community](#)

The entire **Pro Git book** written by Scott Chacon and Ben Straub is available to [read online](#) for free. Dead tree versions are available on [Amazon.com](#).

## Downloads

 [macOS](#)  [Windows](#)  
 [Linux/Unix](#)

Older releases are available and the Git source repository is on [GitHub](#).



### GUI Clients

Git comes with built-in GUI tools ([git-gui](#), [gitk](#)), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

### Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

[View Logos →](#)

### Git via Git

If you already have Git installed, you can get the latest development version via Git itself:

```
git clone https://github.com/git/git
```

You can also always browse the current contents of the git repository using the [web interface](#).

[About this site](#)  
Patches, suggestions, and comments are welcome.

Git is a member of [Software Freedom Conservancy](#)

# การใช้งานคำสั่งเพื่อใช้งาน Git Version Control

```
Command Prompt
Microsoft Windows [Version 10.0.19045.2486]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin>cd Desktop/

C:\Users\Admin\Desktop>mkdir gitvc

C:\Users\Admin\Desktop>cd gitvc

C:\Users\Admin\Desktop\gitvc>echo "# gitvc" >> README.md

C:\Users\Admin\Desktop\gitvc>git init
Initialized empty Git repository in C:/Users/Admin/Desktop/gitvc/.git/

C:\Users\Admin\Desktop\gitvc>git add README.md

C:\Users\Admin\Desktop\gitvc>git commit -m "first commit"
[master (root-commit) 9062a9e] first commit
1 file changed, 1 insertion(+)
create mode 100644 README.md

C:\Users\Admin>git branch -M main

C:\Users\Admin>git remote add origin https://github.com/6520301002/gitvc.git

C:\Users\Admin>git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 221 bytes | 221.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/6520301002/gitvc.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

# ผลลัพธ์เมื่อทำการใช้คำสั่ง Git Push

The screenshot displays a GitHub repository interface for the user '6520301002' and the repository 'gitvc'. The repository is public and has 0 stars, 1 watch, and 0 forks. The main branch is 'main', and there is 1 branch and 0 tags. The commit history shows a single commit by '6520301002' titled 'first commit' with the hash '9f56ccf', pushed 2 minutes ago. The README file content is visible, showing the text '# gitvc'.

6520301002 / gitvc (Public)

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Go to file Add file <> Code

About

No description, website, or topics provided.

Readme 0 stars 1 watching 0 forks

Releases

No releases published  
Create a new release

Packages

No packages published  
Publish your first package

6520301002 first commit 9f56ccf 2 minutes ago 1 commit

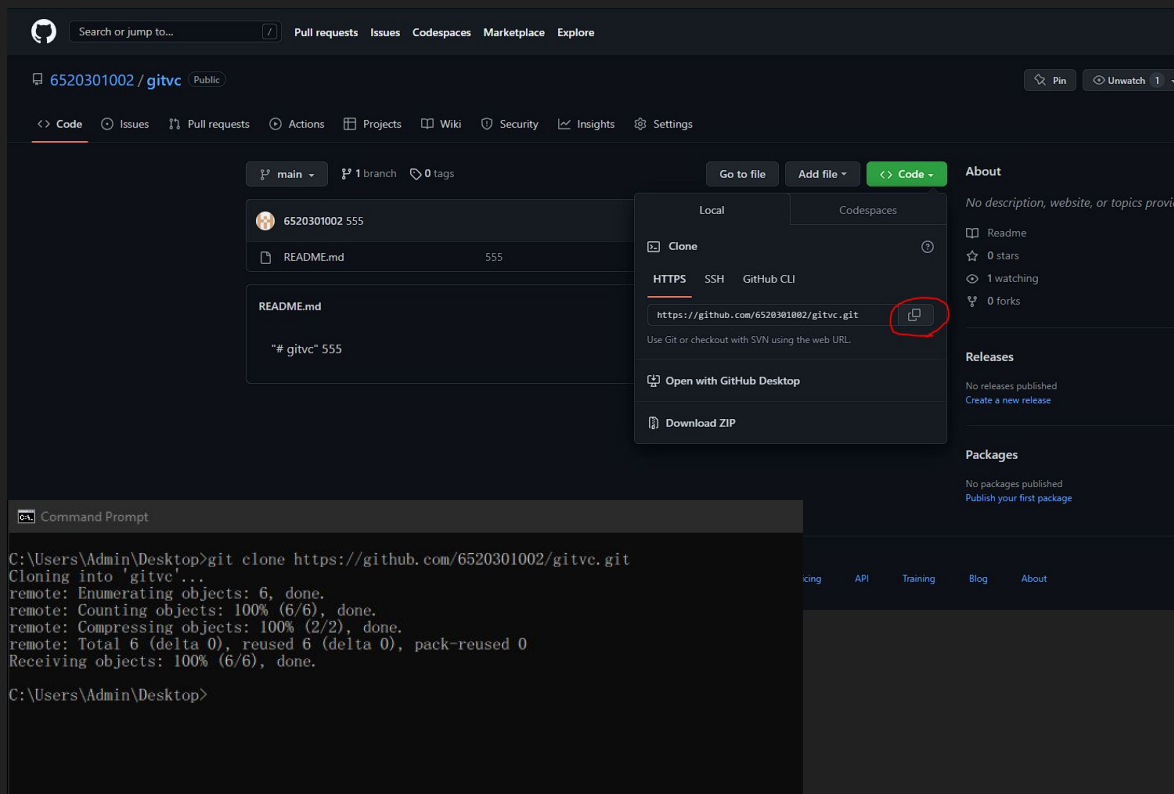
README.md first commit 2 minutes ago

README.md

# gitvc

© 2023 GitHub, Inc. Terms Privacy Security Status Docs Contact GitHub Pricing API Training Blog About

# git clone



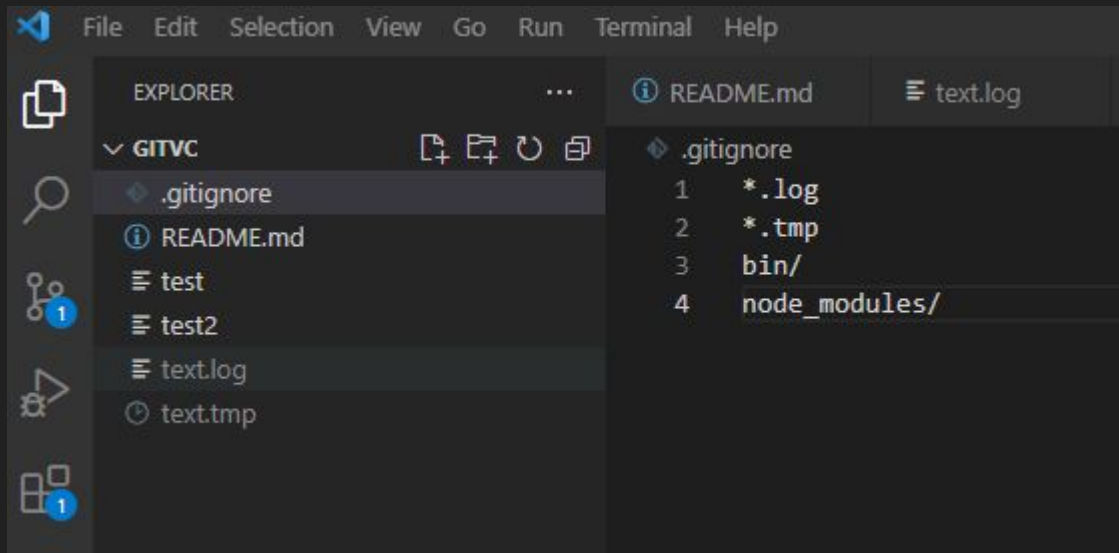
The screenshot displays the GitHub interface for a repository named '6520301002 / gitvc'. The 'Clone' dropdown menu is open, showing the 'HTTPS' option selected. The URL 'https://github.com/6520301002/gitvc.git' is displayed, and a red circle highlights the copy icon next to it. Below the repository view, a Command Prompt window shows the successful execution of the 'git clone' command.

```
C:\Users\Admin\Desktop>git clone https://github.com/6520301002/gitvc.git
Cloning into 'gitvc'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 6 (delta 0), reused 6 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), done.

C:\Users\Admin\Desktop>
```

git clone เป็นการcopy งาน  
มาจากโปรเจ็คหลักโดยเรา  
จะสามารถเปลี่ยนแปลง  
ไฟล์ในโปรเจ็คจำลองนี้  
ได้โดยที่ไม่กระทบโปร  
เจ็คหลัก เราสามารถไป  
copy URL จาก github ได้  
ตามรูป

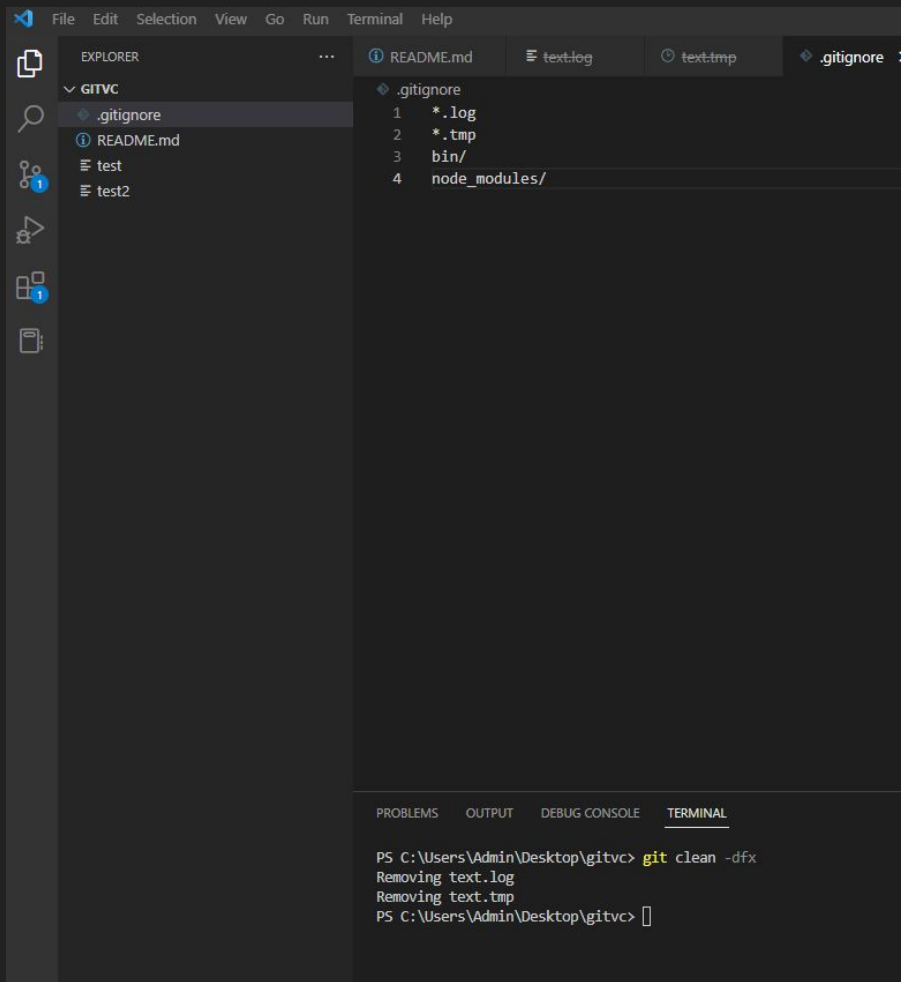
# git ignored



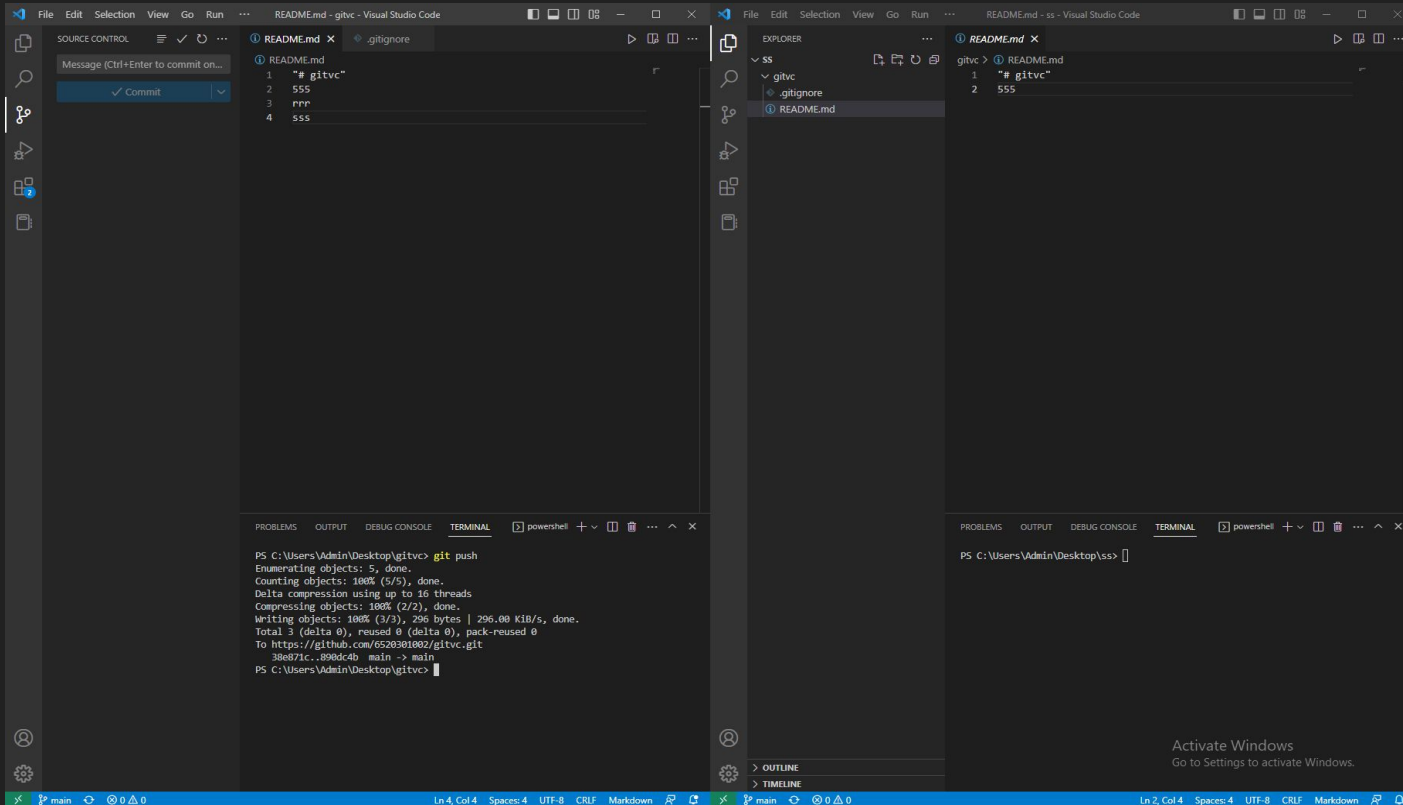
คือการลบไฟล์ที่เป็นuntracked

และไฟล์ที่เป็นนามสกุลเช่น.log

ประโยชน์คือทำให้ไม่เปลือง  
พื้นที่และเวลาอัปโหลดก็จะมี  
ช้า



# push and pull



push คือการอัปโหลด  
ไฟล์ขึ้นบนgithub

pull คือ การอัปเดต  
ไฟล์ให้เป็นversion ล่าสุด



Visual Studio Code window titled "README.md - gitvc - Visual Studio Code". The interface shows the "SOURCE CONTROL" view on the left with a commit message input field and a "Commit" button. The main editor displays the content of "README.md":

```
1 "# gitvc"
2 555
3 rrr
4 sss
```

The "TERMINAL" view at the bottom shows the output of the `git push` command:

```
PS C:\Users\Admin\Desktop\gitvc> git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 296 bytes | 296.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/6528381082/gitvc.git
38e871c..890dc4b main -> main
PS C:\Users\Admin\Desktop\gitvc> []
```

Visual Studio Code window titled "README.md - ss - Visual Studio Code". The interface shows the "SOURCE CONTROL" view on the left with a commit message input field and a "Commit" button. The main editor displays the content of "README.md":

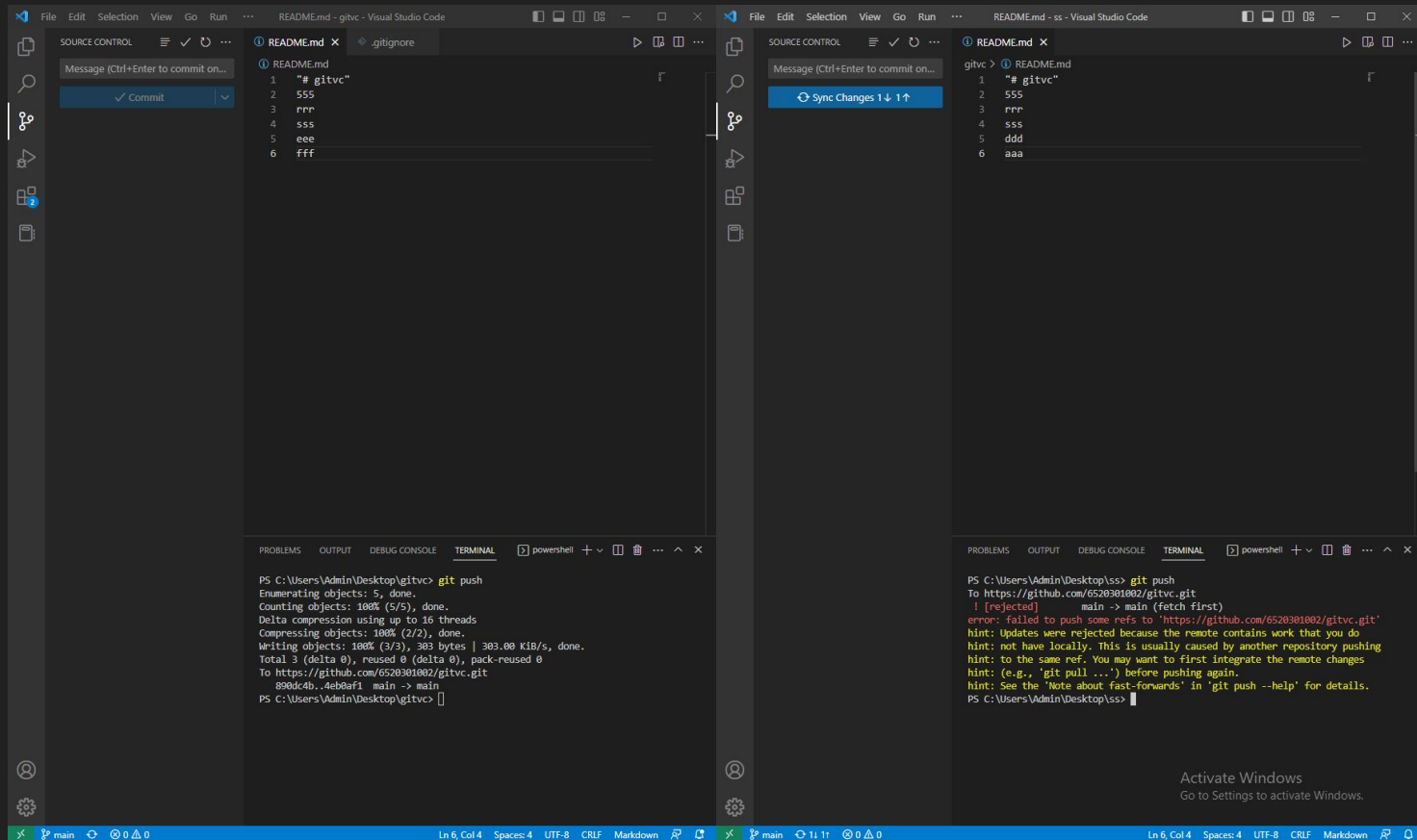
```
1 "# gitvc"
2 555
3 rrr
4 sss
```

The "TERMINAL" view at the bottom shows the output of the `git pull` command:

```
PS C:\Users\Admin\Desktop> git pull
remote: Enumerating objects: 14, done.
remote: Counting objects: 100% (14/14), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 12 (delta 0), reused 12 (delta 0), pack-reused 0
Unpacking objects: 100% (12/12), 1.01 KiB | 51.00 KiB/s, done.
From https://github.com/6528381082/gitvc
9f56ccf..890dc4b main -> origin/main
Updating 9f56ccf..890dc4b
Fast-forward
 .gitignore | 4 ++++
 README.md | 3 +++
 2 files changed, 7 insertions(+)
 create mode 100644 .gitignore
PS C:\Users\Admin\Desktop> []
```

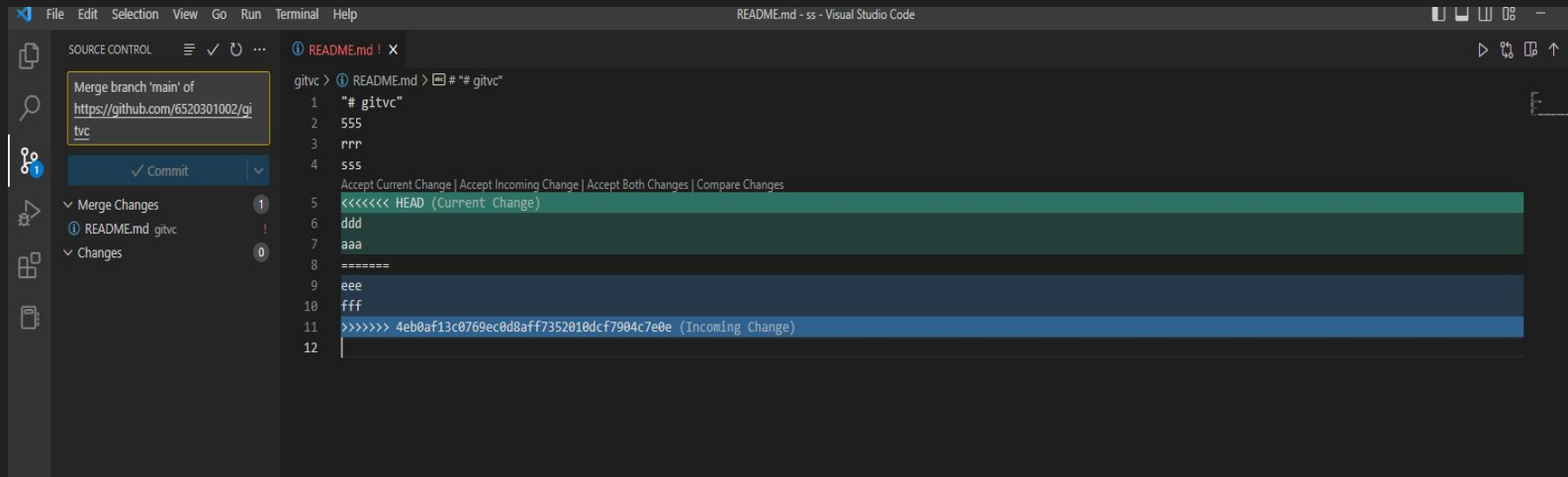
An "Activate Windows" watermark is visible in the bottom right corner of the terminal area.

# การ Merge Conflict

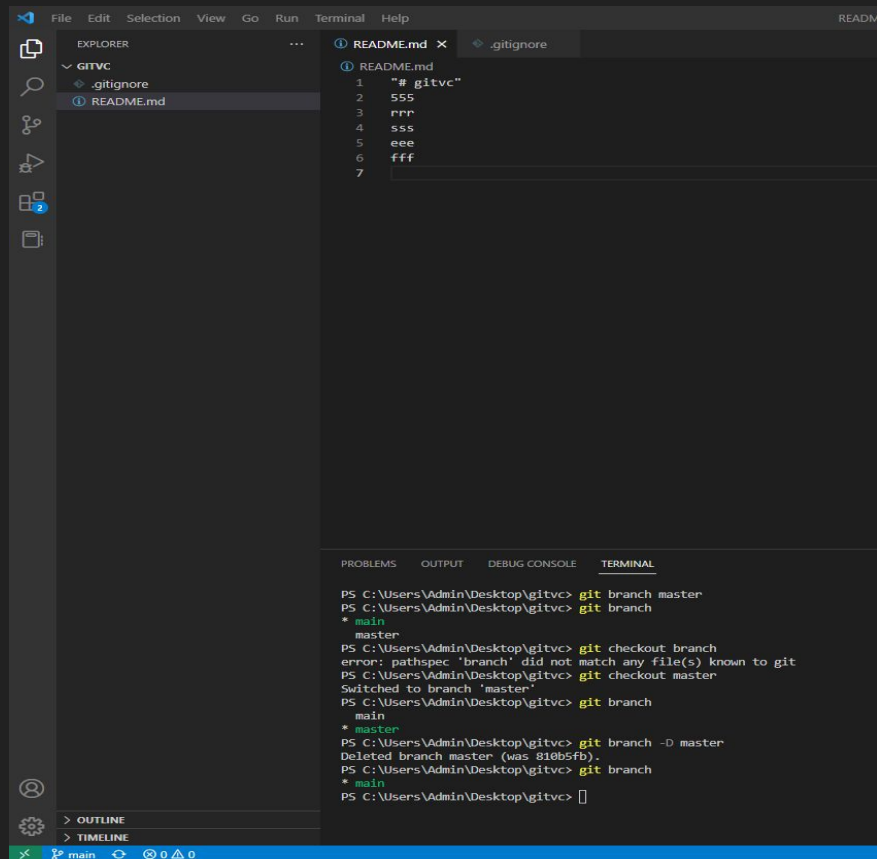


คือการที่เราแก้  
ไฟล์ด้วยกัน

2 เครื่องขึ้นไปและ  
เกิด conflict ว่า  
เราต้องการเลือก  
ไฟล์จากเครื่อง  
ไหน



# git branch



The screenshot shows the Visual Studio Code interface with a file explorer on the left showing a project named 'gitvc' containing '.gitignore' and 'README.md'. The main editor displays the content of 'README.md' with the following text:

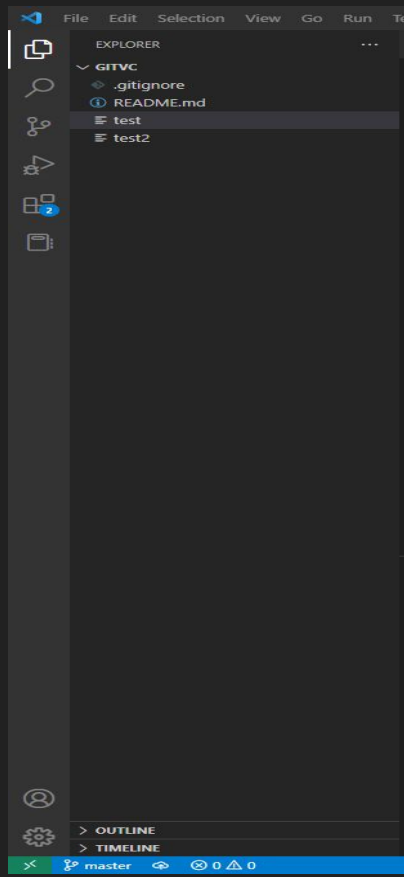
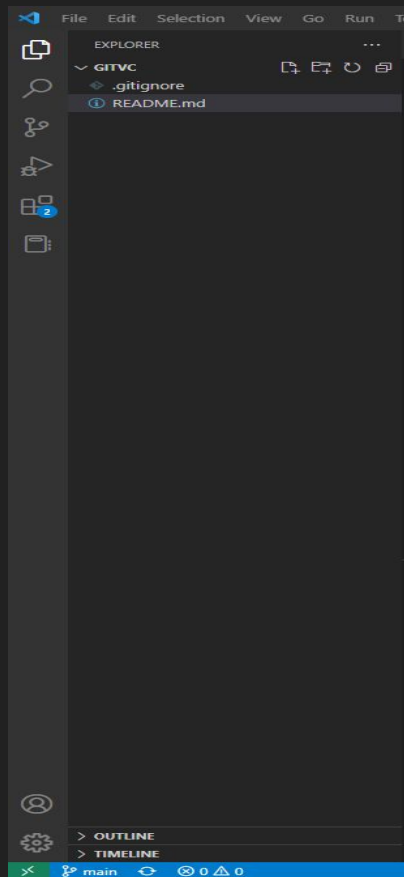
```
1 "# gitvc"
2 555
3 rrr
4 555
5 eee
6 fff
7
```

The terminal window at the bottom shows the following commands and output:

```
PS C:\Users\Admin\Desktop\gitvc> git branch master
PS C:\Users\Admin\Desktop\gitvc> git branch
* main
  master
PS C:\Users\Admin\Desktop\gitvc> git checkout branch
error: pathspec 'branch' did not match any file(s) known to git
PS C:\Users\Admin\Desktop\gitvc> git checkout master
Switched to branch 'master'
PS C:\Users\Admin\Desktop\gitvc> git branch
  main
* master
PS C:\Users\Admin\Desktop\gitvc> git branch -D master
Deleted branch master (was 810b5fb).
PS C:\Users\Admin\Desktop\gitvc> git branch
* main
PS C:\Users\Admin\Desktop\gitvc>
```

git branch คือการแตกbranchออกมาเพื่อเพิ่มฟังก์ชันต่างๆในbranchนั้น โดยที่จะไม่กระทบโค้ดในbranchหลัก

# การ Merge Branch



git merge branch คือการรวม  
branch ที่เจาะจงมายัง branch ที่เรา  
เลือก

FileEditSelectionViewGoRunTerminalHelp

README.md - gitvc - Visual Studio

EXPLORER

gitvc

.gitignore

README.md

test

test2

1 README.md

1 "# gitvc"

2 555

3 rrr

4 sss

5 eee

6 fff

7

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PS C:\Users\Admin\Desktop\gitvc> git merge master

Updating 846b39c..602c24c

Fast-forward

test | 0

test2 | 0

2 files changed, 0 insertions(+), 0 deletions(-)

create mode 100644 test

create mode 100644 test2

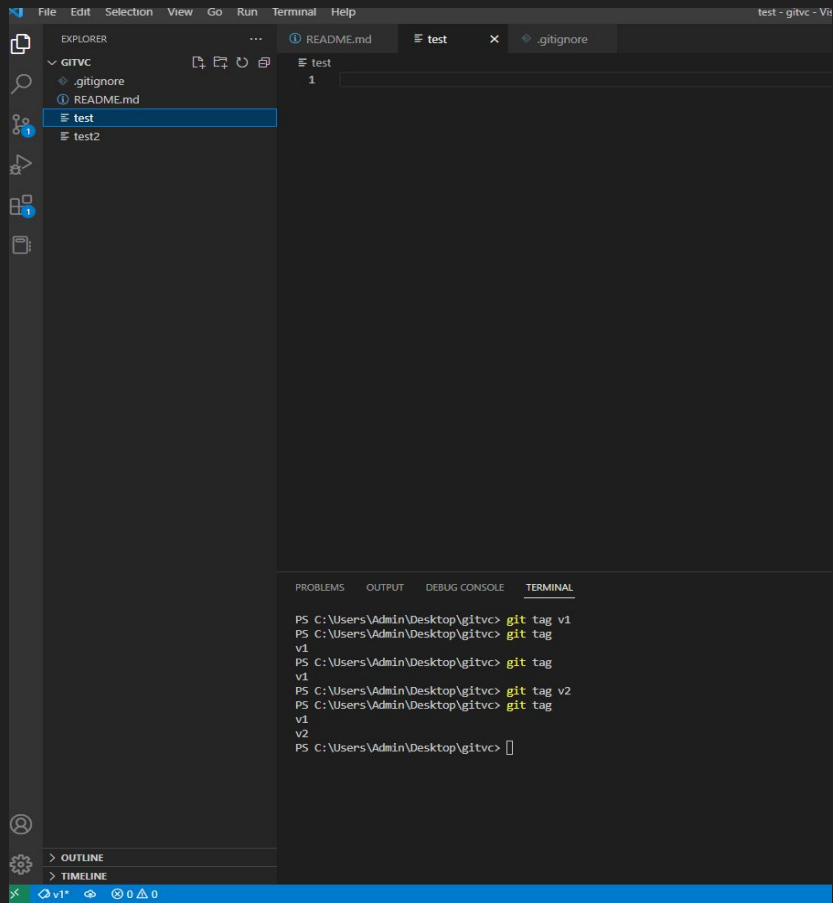
PS C:\Users\Admin\Desktop\gitvc>

main

0:11

0000

# Tag Version



tag คือ การtag version ของโค้ดที่ต้องการ  
จะเหมือนกับbranch แต่จะไม่สามารถแก้ไข  
tag นั้นได้



File Edit Selection View Go Run Terminal Help

EXPLORER

... README.md test .gitignore

test

1 eeee v2

2 ssss v2

3 dddd v2

test2

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\Admin\Desktop\gitvc> git tag v1
PS C:\Users\Admin\Desktop\gitvc> git tag
v1
PS C:\Users\Admin\Desktop\gitvc> git tag
v1
PS C:\Users\Admin\Desktop\gitvc> git tag v2
PS C:\Users\Admin\Desktop\gitvc> git tag
v1
v2
PS C:\Users\Admin\Desktop\gitvc> git checkout v2
Previous HEAD position was 4ab96f9 test
HEAD is now at c17ab1d git add.
D dev.js
PS C:\Users\Admin\Desktop\gitvc> []
```

> OUTLINE

> TIMELINE

v2\*

```
PS C:\Users\Admin\Desktop\gitvc> git push origin v2
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 266 bytes | 266.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/6520301002/gitvc.git
 * [new tag] v2 -> v2
PS C:\Users\Admin\Desktop\gitvc> []
```

[Pull requests](#)[Issues](#)[Codespaces](#)[Marketplace](#)[Explore](#)[6520301002 / gitvc](#)Public[Code](#)[Issues](#)[Pull requests](#)[Actions](#)[Projects](#)[Wiki](#)[Security](#)[Insights](#)[Settings](#)main1 branch1 tag[Go to file](#)

Switch branches/tags



Branches

Tags

v2

[View all tags](#)

test

test2

4ab96f9

git add.

Merge branch 'main' of <https://github.com/6520301002/gitvc>



test

git add.

git add.

README.md

```
"# gitvc" 555 rrr sss eee fff
```

 Search or jump to... 




[Pull requests](#) [Issues](#) [Codespaces](#) [Marketplace](#) [Explore](#)

6520301002 / gitvc Public

[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 266 bytes | 266.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/6520301002/gitvc.git
 * [new tag]          v2 -> v2
PS C:\Users\Admin\Desktop\gitvc> git push -d origin v2
To https://github.com/6520301002/gitvc.git
 - [deleted]          v2
PS C:\Users\Admin\Desktop\gitvc> git tag
v1
v2
PS C:\Users\Admin\Desktop\gitvc> git tag -d v1
Deleted tag 'v1' (was 4ab96f9)
PS C:\Users\Admin\Desktop\gitvc> git tag
v2
PS C:\Users\Admin\Desktop\gitvc> 
```

 main  1 branch  0 tags


Switch branches/tags


Branches

Tags

Nothing to show

[View all tags](#)

 test

 test2

git add.

Merge branch 'main' of <https://github.com/6520301002/gitvc>

test

git add.

git add.

README.md

"# gitvc" 555 rrr sss eee fff