Activity#2

2024-02-06

```
# Install and load required packages
install.packages("rvest")
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)
install.packages("httr")
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)
install.packages("polite")
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)
library(rvest)
library(httr)
library(polite)
# Set up polite scraper
polite::use_manners(save_as = 'polite_scrape.R')
## v Setting active project to '/cloud/project'
# Define the URL template
url_template <- 'https://www.imdb.com/title/tt1663662/reviews?ref_=tt_urv'
# Initialize vectors
Usernames <- character(0)
ReviewerDates <- character(0)
ReviewerContents <- character(0)</pre>
Ratings <- character(0)</pre>
# Scrape data from multiple pages
for (page in 1:12) { # Assuming there are 12 pages, adjust as needed
  # Create a session for each page
  session <- bow(sprintf(url_template, page), user_agent = "Educational")</pre>
  # Scrape data
  Usernames <- c(Usernames, scrape(session) %>% html_nodes('span.display-name-link') %>% html_text())
  ReviewerDates <- c(ReviewerDates, scrape(session) %>% html_nodes('span.review-date') %>% html_text())
  ReviewerContents <- c(ReviewerContents, scrape(session) %>% html_nodes('div.text.show-more__control')
  Ratings <- c(Ratings, scrape(session) %>% html_nodes('span.rating-other-user-rating') %>% html_text()
## Warning in sprintf(url_template, page): one argument not used by format
## 'https://www.imdb.com/title/tt1663662/reviews?ref_=tt_urv'
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## Warning in sprintf(url_template, page): one argument not used by format
## 'https://www.imdb.com/title/tt1663662/reviews?ref =tt urv'
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## 'https://www.imdb.com/title/tt1663662/reviews?ref_=tt_urv'
## Warning in sprintf(url_template, page): one argument not used by format
## 'https://www.imdb.com/title/tt1663662/reviews?ref_=tt_urv'
# Create a data frame
DataFrame <- data.frame(</pre>
  Usernames = Usernames[1:300],
  Reviewer_Date = ReviewerDates[1:300],
 Reviewer_Content = ReviewerContents[1:300],
  Rating = Ratings[1:300]
)
# Save as CSV
write.csv(DataFrame, file = "imdb_reviews.csv", row.names = FALSE)
# Print the data frame
print(DataFrame)
##
              Usernames
                             Reviewer_Date
## 1
           planktonrules 16 January 2015
## 2
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                              22 July 2020
## 3
                  alr126 27 November 2013
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            damianphelps 28 February 2021
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         Leofwine_draca
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## 286 As far as summer blockbusters go, 'Pacific Rim' has probably the most unabashedly uncomplicated
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