Extracting Oyo hotel details

webscrapping using ‘rvest’

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#install.packages("rvest")  
#install.packages("dplyr")

library(rvest)  
library(dplyr)  
library(knitr)

i have changed the user input option in pdf if you want with user input option you can check out the rmd file in script folder

hotels\_list =function(locations,Number\_of\_tab){  
   
 amenitiess <- function(post\_link){  
   
 page <-read\_html(post\_link)  
   
 amenitie <- page %>%   
 html\_nodes(".c-12w6zty") %>%   
 html\_text() %>%  
 paste(collapse = ",")   
 return(amenitie)  
 }  
 for(page\_result in seq(from = 1, to = Number\_of\_tab, by = 1)){  
 URLs <- paste("https://www.oyorooms.com/hotels-in-",locations,"/?", page\_result, "&sort=guest\_ratings&sortOrder=", sep = "")  
 page <- read\_html(URLs)  
   
 name <- page %>%   
 html\_nodes(".listingHotelDescription\_\_hotelName") %>%   
 html\_text()  
   
 rating <- page %>%   
 html\_nodes(".hotelRating\_\_rating--clickable > span:nth-child(1)") %>%   
 html\_text()  
   
 Address <- page %>%   
 html\_nodes(".u-line--clamp-2") %>%   
 html\_text()  
   
 room\_price <- page %>%   
 html\_nodes(".listingPrice\_\_finalPrice") %>%  
 html\_text()  
   
 post\_link <- page %>%   
 html\_nodes(".listingHotelDescription") %>%   
 html\_attr("name") %>%   
 gsub('HotelListCard-','https://www.oyorooms.com/',.) %>%   
 paste("/", sep = "")  
   
 Amenitie <- sapply(post\_link, FUN = amenitiess,USE.NAMES = FALSE)  
   
 hotels <- rbind(data.frame(name, rating, room\_price, Amenitie, Address, post\_link, stringsAsFactors = FALSE))  
 }  
   
 hotels  
 }

#locations <- readline(prompt = "Enter location: ")  
locations <- "mumbai"  
#No\_tabs <- readline(prompt = "Number of tab page has: ")  
No\_tabs <- 3  
  
returns <- hotels\_list(locations, No\_tabs)

knitr::kable(returns)

| name | rating | room\_price | Amenitie | Address | post\_link |
| --- | --- | --- | --- | --- | --- |
| OYO 9849 Hotel Divine Residency | 4.5 | ₹4018 | AC,TV,Free Wifi,Geyser,Parking Facility,Coffee/Tea Maker | Near Chirag Nagar Police Station, LBS Marg, Mumbai | <https://www.oyorooms.com/15969/> |
| Capital O 62560 Hotel Zaid International | 4.1 | ₹3909 | AC,TV,Free Wifi,Kitchen,Geyser,Parking Facility | Near Huntsman Building, Marol, Mumbai | <https://www.oyorooms.com/84220/> |
| OYO 27640 Hotel Blue Sapphire Residency | 3.7 | ₹1983 | AC,TV,Free Wifi,Geyser,Card Payment,CCTV Cameras | Near The Crescent Business Park, Sakinaka, Mumbai | <https://www.oyorooms.com/48325/> |
| OYO 5665 Rana Residency | 2.9 | ₹2083 | AC,TV,Free Wifi,Kitchen,Geyser,Parking Facility | Tolany Naka, Sher-e-Punjab Colony, Mumbai | <https://www.oyorooms.com/9473/> |
| OYO Townhouse 058 JB Nagar, Andheri East | 3.9 | ₹4542 | Free Wifi,AC,TV,Parking Facility,Card Payment,CCTV Cameras | Near Bombay Cambridge School, Andheri East, Mumbai | <https://www.oyorooms.com/106711/> |
| OYO 65661 Hotel Emerald Inn | 3.5 | ₹1310 | WiFi,AC,TV | Near Sakinaka metro station, Asalfa, Mumbai | <https://www.oyorooms.com/89003/> |
| OYO 19156 Hotel Greenforest | 3.6 | ₹2225 | AC,TV,Free Wifi,Queen Sized Bed,Geyser,Parking Facility | Near Axis Bank, Customs Colony, Mumbai | <https://www.oyorooms.com/42241/> |
| OYO 30693 Hotel Blue Executive | 3.7 | ₹1587 | WiFi,Queen Sized Bed,AC,TV | On main street, Near Saki Vihar complex, Sakinaka,Mumbai | <https://www.oyorooms.com/52391/> |
| OYO 16446 Hotel Veera Residency | 3.3 | ₹2107 | AC,TV,Free Wifi,Kitchen,Queen Sized Bed,Geyser | Near Hanuman Nagar, Andheri East, Mumbai | <https://www.oyorooms.com/39303/> |
| OYO 78659 Collection O Hotel Jayshree Domestic Airport | 3.2 | ₹2263 | Free Wifi,AC,TV,Power backup,Elevator,In-house Restaurant | Mumbai, Mumbai | <https://www.oyorooms.com/109974/> |
| OYO 8181 Druv’s Taj Palace | 3.0 | ₹1712 | AC,TV,Free Wifi,Kitchen,In-house Restaurant,Card Payment | Near Asalpha Metro Station, Dhumai Estate, Mumbai | <https://www.oyorooms.com/13537/> |
| OYO 76846 Hotel Manas Residency | 2.8 | ₹1869 | Free Wifi,AC,TV,Card Payment,CCTV Cameras,Reception | Chembur East, Mumbai | <https://www.oyorooms.com/107804/> |
| Townhouse 809 Royal Palms Hotel - Rose Collection | 2.5 | ₹2216 | AC,TV,Free Wifi,King Sized Bed,Mini Fridge,Power backup | Near Aarey Colony, Goregaon, Mumbai | <https://www.oyorooms.com/62048/> |
| OYO Townhouse 781 Royal Palms Hotel | 2.4 | ₹2005 | AC,TV,Free Wifi,King Sized Bed,Power backup,Geyser | On main street, Near Aarey Colony, Goregaon East, Mumbai | <https://www.oyorooms.com/50092/> |
| OYO 5352 Hotel Airport Metro | 3.1 | ₹2469 | AC,TV,Free Wifi,Kitchen,Mini Fridge,Geyser | Andheri East, Mumbai | <https://www.oyorooms.com/8914/> |
| Townhouse 878 The Unicontinental2 | 2.9 | ₹4523 | Window,AC,Free Wifi,Kitchen,TV,Power backup | 9A Rajkutir, 3rd Road,next to Doolally Taproom,next to Khar railway station, Khar West | <https://www.oyorooms.com/173035/> |
| Capital O 71247 Jk Regency | 3.0 | ₹1770 | Free Wifi,Kitchen,AC,TV,Parking Facility,Card Payment | Near Pump House Subway, Andheri East, Mumbai | <https://www.oyorooms.com/99089/> |
| OYO 64671 Royal Aqua | 3.2 | ₹2028 | AC,TV,Free Wifi,Geyser,Card Payment,CCTV Cameras | On main street, Near Yamaha Showroom, Andheri East, Mumbai | <https://www.oyorooms.com/87634/> |
| OYO 3769 Blue Pearl Residency | 2.6 | ₹1810 | AC,TV,Free Wifi,Kitchen,Queen Sized Bed,Geyser | On main street, Near Asalpha Metro Station, Ghatkopar, Mumbai | <https://www.oyorooms.com/5842/> |
| OYO 14056 Golden Arch | 3.1 | ₹2148 | AC,TV,Free Wifi,Geyser,Card Payment,CCTV Cameras | Near Vakola Police station, Santa Cruz East, Mumbai | <https://www.oyorooms.com/36230/> |

voia ! we can see that all the addresses are from *mumbai* and can cross check from website it seems the script is working right its optional to convert the dataframe into *CSV*. to do that you can run this chuck

filename <- paste(locations,"\_HotelList.csv", sep = "")  
write.csv(returns, filename)