Your friend has opened a new Food Blogging handle on Instagram and wants to get famous. He wants to follow a lot of people so that he can get noticed quickly but it is a tedious task so he asks you to help him. As you have just learned automation using Selenium, you decided to help him by creating an Instagram Bot.

You need to create different functions for each task.

**Note :**

Don’t forget to remove your Username and Password from the python notebook before submission.

Replace your username and password by ‘SAMPLE USERNAME’ and ‘SAMPLE PASSWORD’ where you have used them in your code for logging in to instagram

Upload your code file for submission of this project

* 1. Login to your Instagram Handle
     1. Submit with sample username and password
  2. Type for “food” in search bar and print all the names of the Instagram Handles that are displayed in list after typing “food”
     1. Note : Make sure to avoid printing hashtags
  3. Searching and Opening a profile using
     1. Open profile of “So Delhi”
  4. Follow/Unfollow given handle -
     1. Open the Instagram Handle of “So Delhi”
     2. Start following it. Print a message if you are already following
     3. After following, unfollow the instagram handle. Print a message if you have already unfollowed.
  5. Like/Unlike posts
     1. Liking the top 30 posts of the ‘dilsefoodie'. Print message if you have already liked it.
     2. Unliking the top 30 posts of the ‘dilsefoodie’. Print message if you have already unliked it.
  6. Extract list of followers
     1. Extract the usernames of the first 500 followers of ‘foodtalkindia’ and ‘sodelhi’.
     2. Now print all the followers of “foodtalkindia” that you are following but those who don’t follow you.
  7. Check the story of ‘coding.ninjas’. Consider the following Scenarios and print error messages accordingly -
     1. If You have already seen the story.
     2. Or The user has no story.
     3. Or View the story if not yet seen.

**Your project will be evaluated on following parameters -**

**QUESTION 1 : LOGIN**

(Max Score 10)

Answer correctness and proper procedure

**QUESTION 2: SEARCHING A KEYWORD**

(Max Score 7)

Answer correctness and proper procedure

**QUESTION 3: SEARCHING AND OPENING PROFILE**

(Max Score 5)

Answer correctness and proper procedure

**QUESTION 4: FOLLOW/UNFOLLOW**

(Max Score 10)

Answer correctness and proper procedure

**QUESTION 5: LIKE/UNLIKE**

(Max Score 10)

Answer correctness and proper procedure

**QUESTION 6: EXTRACTING LIST OF FOLLOWERS**

(Max Score 14)

Answer correctness and proper procedure

**QUESTION 7 : CHECKING STORIES**

(Max Score 14)

Answer correctness and proper procedure

**CODE QUALITY**

(Max Score 30)

Wrote clean and production quality code. This includes comments, good variable naming and proper indentation

**Project Submission**

**DeadlineOct 18, 2021**

**Upload Project**

**Mandatory Checklist for Project Files**

1. Notebook file containing the functional working code for the project, Format: .ipynb 2. Folder containing images or videos related to functional automation (optional)

Browse Files**Upload**

.zip files only  Max Size: 90 MB

**Evaluation Criteria (Total Score: 100)**

**QUESTION 1 : LOGIN**

Max Score: **10**

**QUESTION 2: SEARCHING A KEYWORD**

Max Score: **7**

**QUESTION 3: SEARCHING AND OPENING PROFILE**

Max Score: **5**

**QUESTION 4: FOLLOW/UNFOLLOW**

Max Score: **10**

**QUESTION 5: LIKE/UNLIKE**

Max Score: **10**

**QUESTION 6: EXTRACTING LIST OF FOLLOWERS**

Max Score: **14**

**QUESTION 7 : CHECKING STORIES**

Max Score: **14**

**CODE QUALITY**

Max Score: **30**



PREVIOUS



NEXT

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1. Now your friend has followed a lot of different food bloggers, he needs to analyse the habits of these bloggers.
   1. From the list of instagram handles you obtained when you searched ‘food’ in previous project. Open the first 10 handles and find the top 5 which have the highest number of followers
   2. Now Find the number of posts these handles have done in the previous 3 days.
   3. Depict this information using a suitable graph.
2. Your friend also needs a list of hashtags that he should use in his posts.
   1. Open the 5 handles you obtained in the last question, and scrape the content of the first 10 posts of each handle.
   2. Prepare a list of all words used in all the scraped posts and calculate the frequency of each word.
   3. Create a csv file with two columns : the word and its frequency
   4. Now, find the hashtags that were most popular among these bloggers
   5. Plot a Pie Chart of the top 5 hashtags obtained and the number of times they were used by these bloggers in the scraped posts.
3. You need to also calculate average followers : likes ratio for the obtained handles.  
   Followers : Likes ratio is calculated as follows:
   1. Find out the likes of the top 10 posts of the 5 handles obtained earlier.
   2. Calculate the average likes for a handle.
   3. Divide the average likes obtained from the number of followers of the handle to get the average followers:like ratio of each handle.
   4. Create a bar graph to depict the above obtained information.

**Your project will be evaluated on following parameters -**

**QUESTION 1 : BLOGGER HABIT ANALYSIS**

(Max Score 30)

Answer correctness and proper procedure

**QUESTION 2: POPULAR HASHTAGS**

(Max Score 50)

Answer correctness and proper procedure

**QUESTION 3: AVERAGE FOLLOWERS : LIKES RATIO**

(Max Score 40)

Answer correctness and proper procedure

**CODE QUALITY**

(Max Score 30)

Wrote clean and production quality code. This includes comments, good variable naming and proper indentation

**Project Submission**

**DeadlineOct 18, 2021**

**Upload Project**

**Mandatory Checklist for Project Files**

1. Notebook file containing the functional working code for the project, Format: .ipynb 2. Spreadsheet containing the answer to the query asked in Question 2.3, Format: .csv 3. Folder containing images or videos related to functional automation (optional)

Browse Files**Upload**

.zip files only  Max Size: 90 MB

**Evaluation Criteria (Total Score: 150)**

**QUESTION 1 : BLOGGER HABIT ANALYSIS**

Max Score: **30**

**QUESTION 2: POPULAR HASHTAGS**

Max Score: **50**

**QUESTION 3: AVERAGE FOLLOWERS : LIKES RATIO**

Max Score: **40**

**CODE QUALITY**

Max Score: **30**



PREVIOUS



NEXT