ollama

October 2, 2024

```python
[4]: import ollama

     stream = ollama.chat(
       model='llama3.1',
       messages=[{'role': 'user', 'content': 'Name an engineer that passes the vibe␣
       ↪check'}],
       stream=True
     )

     for chunk in stream:
         print(chunk['message']['content'], end='', flush=True)
```

I'm going to take a guess and say… Elon Musk!

Why? Well, here are some reasons why I think he might pass the "vibe check":

1. **Visionary**: He's not just building cars or rockets; he's trying to change
the world with his ambitious plans for electric transportation, space travel,
and renewable energy.
2. **Innovator**: Musk has been at the forefront of multiple technological
advancements, from PayPal to SpaceX to Tesla, showcasing his ability to think
outside the box and push boundaries.
3. **Passionate**: He's known for being intensely passionate about his work,
which is infectious and inspiring to many.
4. **Authenticity**: Despite his massive success and wealth, Musk seems to stay
true to himself and his values, without compromising on his vision or
principles.

Of course, this is just one person's take on it, but if you're an engineer or
someone who appreciates innovative thinking and a genuine passion for making a
difference, you might feel the same vibe!

```python
[55]: prompt = """

      Below is the information of a website where PAGE is a webpage for example,␣
      ↪Login Page and Cart Page.
      Elements and type are the Actionable html elements which can be clicked or␣
      ↪Input boxes .
```

```
PAGE: Login
Elements | type

Username | Input
Password | Input
login | Button
swaglabs | Logo


PAGE : Inventory
Elements | type

cart |  Button
swaglabs-backpack-add-to-cart | button
swaglabs-bolt-Tshirt-add-to-cart | button
swaglabs-bolt-Onesie-add-to-cart | button
swaglabs-bolt-Fleece-jacket-add-to-cart | button
Name(A-Z) | Dropdown
swaglabs | logo

PAGE: Cart
Elements | type

Continue-shopping | Button
Checkout | Button
SauceLabsBackpack-remove | Button


Page: Checkout
First Name  | Input
Last Name | Input
Zip code | Input
Cancel | Button
Continue | button


Please provide the detailed steps to perform the desired action
If the llm is not clear about the choice, Do NOt any random choice, as the user␣
 ↪to make a choice by raising a question.
Focus on providing a logical flow that reflects the typical user experience for␣
 ↪the given application scenario.
Generate clear, actionable steps using the keywords CLICK, ENTER  ensuring each␣
 ↪step starts with one of these keywords.
Make Sure to add the Name of the Page of the respective element.
For Instructions based on chechout page or any functionality regarding␣
 ↪Checkout, provide the detailed steps for checkout as well.
```

```
Only Give the STEPS in an JSON Format:

 {
 response : {
  STEP 1: Click on the Username field.
 STEP 2: Enter the Username in the Username field.
 STEP 3: Click on the Password field.
     }

}

What are the steps to add a Add SwagLabs Backpack in a cart?
"""
```

[56]: ```python
response = ollama.generate(model='llama3.1', prompt=prompt)
```

[58]: ```python
response['response'].splitlines()
```

[58]:
```
['Here are the detailed steps:',
 '',
 '```json',
 '{',
 '    "response": {',
 '        "STEP 1: Login Page: Click on the Username field.",',
 '        "STEP 2: Login Page: Enter the Username in the Username field.",',
 '        "STEP 3: Login Page: Click on the Password field.",',
 '        "STEP 4: Login Page: Enter the Password in the Password field.",',
 '        "STEP 5: Login Page: Click on the login button.",',
 '        ',
 '        "STEP 6: Inventory Page: Click on the swaglabs-backpack-add-to-cart
button.",',
 '        ',
 '        "STEP 7: Cart Page: Verify that the SwagLabs Backpack is added to
cart."',
 '    }',
 '}',
 '```',
 '',
 "If you'd like to confirm the steps, I can ask some clarifying questions:",
 '',
 '* Are you trying to add a different product or just the SwagLabs Backpack?',
 '* Do you have a specific username and password to login with?']
```

0.0.1 OrangeHRM

```
prompt = """

Elements and type are the Actionable html elements which can be clicked or
 ↪Input boxes .

Page : Login

ELEMENTS | Type

HRFORALL | Logo
Username: Admin  | Text
Password: admin123 | Text
Username | label
Username | Input
Password | label
Password | Input
Login | Button
Forgot your password? | Link


Page : Dashboard

Section | ELEMENTS | Type

Sidebar | search | Input
Sidebar | collapse | Icon
Sidebar | Admin | Link
Sidebar | PIM | Link
Sidebar | Leave | Link
Sidebar | Time | Link
Sidebar | Recruitment | Link
Sidebar | Dashboard | Link
Page | Configure | Dropdown
Page | Manage Reviews | Dropdown
Page | Employee name | Input
Page | Job Title | Dropdown

Page : Leave
Page Objective : To View the Leave records based on the below options.
ELEMENTS | Type

From Date | Date Picker
To Date | Date Picker
View | Button
```

```
Page : Apply Leave
Page Objective : To Apply for a leave on a specific date using the below␣
 ↪mentioned elements.
ELEMENTS | Type

From Date | Date Picker
To Date | Date Picker
Leave Type | Dropdown
Comments | Input
Apply | Button


Understand the Page objective before generating the steps.
Do not Get confused based on the similar looking options on the screen, refer␣
 ↪to the page objective to understand.
If the llm is not clear about the choice, Do NOt any random choice, as the user␣
 ↪to make a choice by raising a question.
Focus on providing a logical flow that reflects the typical user experience for␣
 ↪the given application scenario.
Generate clear, actionable steps ensuring each step starts with one of these␣
 ↪keywords.
Make Sure to add the Name of the Page of the respective element.
For Instructions based on chechout page or any functionality regarding␣
 ↪Checkout, provide the detailed steps for checkout as well.
Always start from login steps.
Only Give the STEPS in an JSON Format:

 {
 response : {
  STEP 1: Click on the Username field.
 STEP 2: Enter the Username in the Username field.
 STEP 3: Click on the Password field.
     }

}

INSTRUCTION: apply a casual leave of 5th oct.


"""
response =  ollama.generate(model='llama3.1', prompt=prompt)
response['response'].splitlines()
```

[65]: ['Here are the steps to follow:',
      '',
      '{',
      ' "response": {',
      '   "STEP 1: Login to the application by clicking on the \'Username\' field."
      : "Page: Login",',
```

```

```
       '    " STEP 2: Enter the Username as \'Admin\' in the \'Username\' field." :
     "Page: Login",',
       '    " STEP 3: Click on the \'Password\' field." : "Page: Login",',
       '    "STEP 4: Enter the Password as \'admin123\' in the \'Password\' field." :
     "Page: Login",',
       '    " STEP 5: Click on the \'Login\' button." : "Page: Login",',
       '    " STEP 6: Navigate to the \'Leave\' page by clicking on the \'Dashboard\'
     and then selecting \'Leave\' from the menu." : "Page: Dashboard",',
       '    "STEP 7: Click on the \'Apply Leave\' button on the \'Leave\' page." :
     "Page: Leave",',
       '    " STEP 8: Select the \'Date Range\' as \'Specific Dates\' by clicking on
     the dropdown." : "Page: Apply Leave",',
       '    " STEP 9: Choose the \'From Date\' as \'5th Oct\' from the date picker." :
     "Page: Apply Leave",',
       '    "STEP 10: Choose the \'To Date\' as \'5th Oct\' from the date picker." :
     "Page: Apply Leave",',
       '    " STEP 11: Select the \'Leave Type\' as \'Casual\' from the dropdown." :
     "Page: Apply Leave",',
       '    " STEP 12: Enter your comments in the \'Comments\' field." : "Page: Apply
     Leave",',
       '    "STEP 13: Click on the \'Apply\' button to submit the leave application."
     : "Page: Apply Leave"',
       '  }',
       '}']
```

[ ]:

[ ]:

```
[67]: prompt = """

      Elements and type are the Actionable html elements which can be clicked or␣
        ↪Input boxes .

      Page : Login

      ELEMENTS | Type

      HRFORALL | Logo
      Username: Admin  | Text
      Password: admin123 | Text
      Username | label
      Username | Input
      Password | label
      Password | Input
      Login | Button
      Forgot your password? | Link
```

```
Page : Dashboard

Section | ELEMENTS | Type

Sidebar | search | Input
Sidebar | collapse | Icon
Sidebar | Admin | Link
Sidebar | PIM | Link
Sidebar | Leave | Link
Sidebar | Time | Link
Sidebar | Recruitment | Link
Sidebar | Dashboard | Link
Page | Configure | Dropdown
Page | Manage Reviews | Dropdown
Page | Employee name | Input
Page | Job Title | Dropdown


Page : Leave
Page Objective : To View the Leave records based on the below options.
ELEMENTS | Type

From Date | Date Picker
To Date | Date Picker
View | Button

Page : Apply Leave
Page Objective : To Apply for a leave on a specific date using the below␣
 ↪mentioned elements.
ELEMENTS | Type

From Date | Date Picker
To Date | Date Picker
Leave Type | Dropdown
Comments | Input
Apply | Button


Page : Time

TimeSheets | Dropdown
My TimeSheets | TimeSheets dropdown option / Page Link
Employee TimeSheets | TimeSheets dropdown option / Page Link


Attendance | Dropdown
```

My Records | Attendance dropdown option / Page Link
Punch In/Out | Attendance dropdown option / Page Link
Employee Records | Attendance dropdown option / Page Link
Configuration | Attendance dropdown option / Page Link

Select Employee Section
Employee name | Input
View | Input

Page : PunchIN
page Objective : In order to Punch in for an employee

Punch In | Label
Date | DatePicker
Time | timePicker
Note | Input
In | Button
Reports | Dropdown
Project Reports | Reports dropdown option / Page Link
Employee Reports | Reports dropdown option / Page Link
Attendance Summary | Reports dropdown option / Page Link
Project info | Dropdown
Customers | Project info dropdown option / Page Link
Projects | Project info dropdown option / Page Link

Understand the Page objective before generating the steps.
Do not Get confused based on the similar looking options on the screen, refer␣
 ↪to the page objective to understand.
If the llm is not clear about the choice, Do NOt any random choice, as the user␣
 ↪to make a choice by raising a question.
Focus on providing a logical flow that reflects the typical user experience for␣
 ↪the given application scenario.
Generate clear, actionable steps ensuring each step starts with one of these␣
 ↪keywords.
Make Sure to add the Name of the Page of the respective element.
Use the Appropriate Element name while writing the steps.
If the option is under an dropdown then write steps to click on the dropdown to␣
 ↪expand the dropdown and then click on the appropriate option.
Always start from login steps.

Only Give the STEPS in an JSON Format:

```
    {
    response : {
    STEP 1: Click on the Username field.
    STEP 2: Enter the Username in the Username field.
    STEP 3: Click on the Password field.
        }

    }

    INSTRUCTION: Punch on for todays date.

    """
    response =  ollama.generate(model='llama3.1', prompt=prompt)
    response['response'].splitlines()
```

[67]: ["Here are the steps to punch in for today's date:",
      '',
      '{',
      '"response": {',
      '   "STEP 1: Login to the application by clicking on the HRFORALL logo." ',
      '   " STEP 2: Enter \'Admin\' in the Username field." ',
      '   " STEP 3: Enter \'admin123\' in the Password field." ',
      '   " STEP 4: Click on the Login button." ',
      '',
      '   "STEP 5: Navigate to the PunchIN page by clicking on the Dashboard link,
    then click on the Attendance dropdown option, and select Punch In/Out" ',
      '   " STEP 6: Click on the Date Picker icon to open the date picker calendar."
    ',
      '   " STEP 7: Select today\'s date from the date picker calendar." ',
      '',
      '   " STEP 8: Click on the Time Picker icon to open the time picker clock." ',
      '   " STEP 9: Set the current time using the time picker clock." ',
      '',
      '   " STEP 10: Enter any relevant note in the Note field." ',
      '',
      '   " STEP 11: Click on the In button to punch in." ',
      '}',
      '}']

[ ]: prompt = """

    Elements and type are the Actionable html elements which can be clicked or␣
      ↪Input boxes .

    Page : Login
```

```
ELEMENTS | Type

HRFORALL | Logo
Username: Admin  | Text
Password: admin123 | Text
Username | label
Username | Input
Password | label
Password | Input
Login | Button
Forgot your password? | Link


Page : Dashboard

Section | ELEMENTS | Type

Sidebar | search | Input
Sidebar | collapse | Icon
Sidebar | Admin | Link
Sidebar | PIM | Link
Sidebar | Leave | Link
Sidebar | Time | Link
Sidebar | Recruitment | Link
Sidebar | Dashboard | Link
Page | Configure | Dropdown
Page | Manage Reviews | Dropdown
Page | Employee name | Input
Page | Job Title | Dropdown

Page : Leave
Page Objective : To View the Leave records based on the below options.
ELEMENTS | Type

From Date | Date Picker
To Date | Date Picker
View | Button

Page : Apply Leave
Page Objective : To Apply for a leave on a specific date using the below␣
  ↪mentioned elements.
ELEMENTS | Type

From Date | Date Picker
To Date | Date Picker
Leave Type | Dropdown
Comments | Input
```

```
Apply | Button


Page : Time

TimeSheets | Dropdown
My TimeSheets | TimeSheets dropdown option / Page Link
Employee TimeSheets | TimeSheets dropdown option / Page Link


Attendance | Dropdown
My Records | Attendance dropdown option / Page Link
Punch In/Out | Attendance dropdown option / Page Link
Employee Records | Attendance dropdown option / Page Link
Configuration | Attendance dropdown option / Page Link

Select Employee Section
Employee name | Input
View | Input


Page : PunchIN
page Objective : In order to Punch in  for an employee

Punch In | Label
Date | DatePicker
Time | timePicker
Note | Input
In | Button

Reports | Dropdown
Project Reports | Reports dropdown option / Page Link
Employee Reports | Reports dropdown option / Page Link
Attendance Summary | Reports dropdown option / Page Link

Project info | Dropdown
Customers |  Project info dropdown option / Page Link
Projects | Project info dropdown option / Page Link




Understand the Page objective before generating the steps.
Do not Get confused based on the similar looking options on the screen, refer␣
  ↪to the page objective to understand.
```

```
If the llm is not clear about the choice, Do NOt any random choice, as the user␣
 ↪to make a choice by raising a question.
Focus on providing a logical flow that reflects the typical user experience for␣
 ↪the given application scenario.
Generate clear, actionable steps ensuring each step starts with one of these␣
 ↪keywords.
Make Sure to add the Name of the Page of the respective element.
Use the Appropriate Element name while writing the steps.
If the option is under an dropdown then write steps to click on the dropdown to␣
 ↪expand the dropdown and then click on the appropriate option.
Always start from login steps.


Only Give the STEPS in an JSON Format:

 {
 response : {
 STEP 1: Click on the Username field.
 STEP 2: Enter the Username in the Username field.
 STEP 3: Click on the Password field.
      }

}

 INSTRUCTION: Punch on for todays date.

 """
response =  ollama.generate(model='llama3.1', prompt=prompt)
response['response'].splitlines()
```

Json format

```
[78]: import json

      file_path = "db.json"
      with open(file_path, 'r') as file:
          data = json.load(file)
```

```
[79]: data
```

```
[79]: {'Pages': [{'Page': 'Login',
         'Objective': 'to login into the application',
         'Elements': [{'Element': 'HRFORALL', 'Type': 'Logo', 'Section': 'Page'},
          {'Element': 'Username: Admin', 'Type': 'Text', 'Section': 'Page'},
          {'Element': 'Password: admin123', 'Type': 'Text', 'Section': 'Page'},
          {'Element': 'Username', 'Type': 'label', 'Section': 'Page'},
          {'Element': 'Username', 'Type': 'Input', 'Section': 'Page'},
          {'Element': 'Password', 'Type': 'label', 'Section': 'Page'},
```

```
    {'Element': 'Password', 'Type': 'Input', 'Section': 'Page'},
    {'Element': 'Login', 'Type': 'Button', 'Section': 'Page'},
    {'Element': 'Forgot your password?', 'Type': 'Link', 'Section': 'Page'}]},
  {'Page': 'Dashboard',
   'Objective': 'to manage application features',
   'Elements': [{'Element': 'search', 'Type': 'Input', 'Section': 'Sidebar'},
    {'Element': 'collapse', 'Type': 'Icon', 'Section': 'Sidebar'},
    {'Element': 'Admin', 'Type': 'Link', 'Section': 'Sidebar'},
    {'Element': 'PIM', 'Type': 'Link', 'Section': 'Sidebar'},
    {'Element': 'Leave', 'Type': 'Link', 'Section': 'Sidebar'},
    {'Element': 'Time', 'Type': 'Link', 'Section': 'Sidebar'},
    {'Element': 'Recruitment', 'Type': 'Link', 'Section': 'Sidebar'},
    {'Element': 'Dashboard', 'Type': 'Link', 'Section': 'Sidebar'},
    {'Element': 'Configure', 'Type': 'Dropdown', 'Section': 'Page'},
    {'Element': 'Manage Reviews', 'Type': 'Dropdown', 'Section': 'Page'},
    {'Element': 'Employee name', 'Type': 'Input', 'Section': 'Page'},
    {'Element': 'Job Title', 'Type': 'Dropdown', 'Section': 'Page'}]},
  {'Page': 'Leave',
   'Objective': 'To View the Leave records based on the below options.',
   'Elements': [{'Element': 'From Date',
     'Type': 'Date Picker',
     'Section': 'Page'},
    {'Element': 'To Date', 'Type': 'Date Picker', 'Section': 'Page'},
    {'Element': 'View', 'Type': 'Button', 'Section': 'Page'}]},
  {'Page': 'Apply Leave',
   'Objective': 'To Apply for a leave on a specific date using the below
mentioned elements.',
   'Elements': [{'Element': 'From Date',
     'Type': 'Date Picker',
     'Section': 'Page'},
    {'Element': 'To Date', 'Type': 'Date Picker', 'Section': 'Page'},
    {'Element': 'Leave Type', 'Type': 'Dropdown', 'Section': 'Page'},
    {'Element': 'Comments', 'Type': 'Input', 'Section': 'Page'},
    {'Element': 'Apply', 'Type': 'Button', 'Section': 'Page'}]},
  {'Page': 'Time',
   'Objective': 'to manage time tracking features',
   'Elements': [{'Element': 'TimeSheets',
     'Type': 'Dropdown',
     'Section': 'Page'},
    {'Element': 'My TimeSheets',
     'Type': 'TimeSheets dropdown option',
     'Section': 'Page'},
    {'Element': 'Employee TimeSheets',
     'Type': 'TimeSheets dropdown option',
     'Section': 'Page'},
    {'Element': 'Attendance', 'Type': 'Dropdown', 'Section': 'Page'},
    {'Element': 'My Records',
```

```
      'Type': 'Attendance dropdown option',
      'Section': 'Page'},
    {'Element': 'Punch In/Out',
     'Type': 'Attendance dropdown option',
     'Section': 'Page'},
    {'Element': 'Employee Records',
     'Type': 'Attendance dropdown option',
     'Section': 'Page'},
    {'Element': 'Configuration',
     'Type': 'Attendance dropdown option',
     'Section': 'Page'},
    {'Element': 'Select Employee Section', 'Type': 'Page', 'Section': 'Page'},
    {'Element': 'Employee name', 'Type': 'Input', 'Section': 'Page'},
    {'Element': 'View', 'Type': 'Input', 'Section': 'Page'}]},
  {'Page': 'PunchIN',
   'Objective': 'In order to Punch in for an employee for a respective day.',
   'Elements': [{'Element': 'Punch In', 'Type': 'Label', 'Section': 'Page'},
    {'Element': 'Date', 'Type': 'DatePicker', 'Section': 'Page'},
    {'Element': 'Time', 'Type': 'timePicker', 'Section': 'Page'},
    {'Element': 'Note', 'Type': 'Input', 'Section': 'Page'},
    {'Element': 'In', 'Type': 'Button', 'Section': 'Page'},
    {'Element': 'Reports', 'Type': 'Dropdown', 'Section': 'Page'},
    {'Element': 'Project Reports',
     'Type': 'Reports dropdown option',
     'Section': 'Page'},
    {'Element': 'Employee Reports',
     'Type': 'Reports dropdown option',
     'Section': 'Page'},
    {'Element': 'Attendance Summary',
     'Type': 'Reports dropdown option',
     'Section': 'Page'},
    {'Element': 'Project info', 'Type': 'Dropdown', 'Section': 'Page'},
    {'Element': 'Customers',
     'Type': 'Project info dropdown option',
     'Section': 'Page'},
    {'Element': 'Projects',
     'Type': 'Project info dropdown option',
     'Section': 'Page'},
    {'Element': 'Reports', 'Type': 'Dropdown', 'Section': 'Page'},
    {'Element': 'Project Reports',
     'Type': 'Reports info dropdown option',
     'Section': 'Page'},
    {'Element': 'Employee Reports',
     'Type': 'Reports info dropdown option',
     'Section': 'Page'},
    {'Element': 'Attendance Summary',
     'Type': 'Reports info dropdown option',
```

```
        'Section': 'Page'}]}]}
```

```
[85]:  # Define your prompt with placeholders
       prompt = """
       Please Understand and follow the below set instructions:

       Instructions : {Instructions}


       Data : {data}


       Following are the user interaction:
       user_instructions : {user_instructions}
       """


       # Define your instructions and data
       instructions = """
       Understand the Page objective before generating the steps.
       Make sure to add the Accurate information provided in the Data before␣
        ↪generating the steps
       Do not get confused based on the similar looking options on the screen; refer␣
        ↪to the page objective to understand.
       If the LLM is not clear about the choice, do not make any random choice; ask␣
        ↪the user to make a choice by raising a question.
       Focus on providing a logical flow that reflects the typical user experience for␣
        ↪the given application scenario.
       Generate clear, actionable steps ensuring each step starts with one of these␣
        ↪keywords.
       Make sure to add the name of the page of the respective element.
       Use the appropriate element name while writing the steps.
       If the option is under a dropdown, write steps to click on the dropdown to␣
        ↪expand it, and then click on the appropriate option.
       Always start from login steps.

       Only give the STEPS in JSON format:
       {
         "response": {
           "STEP 1": "Click on the Username field.",
           "STEP 2": "Enter the Username in the Username field.",
           "STEP 3": "Click on the Password field."
         }
       }
       """


       data = data   # Example JSON data


       user_instruction = "Apply for casual leave on 5th october"
```

```python
# Format the prompt with the actual instructions and data
formatted_prompt = prompt.format(Instructions=instructions, data=data,
  ↪user_instructions=user_instruction)

# Print the formatted prompt
print(formatted_prompt)
```

Please Understand and follow the below set instructions:

Instructions :
Understand the Page objective before generating the steps.
Make sure to add the Accurate information provided in the Data before generating
the steps
Do not get confused based on the similar looking options on the screen; refer to
the page objective to understand.
If the LLM is not clear about the choice, do not make any random choice; ask the
user to make a choice by raising a question.
Focus on providing a logical flow that reflects the typical user experience for
the given application scenario.
Generate clear, actionable steps ensuring each step starts with one of these
keywords.
Make sure to add the name of the page of the respective element.
Use the appropriate element name while writing the steps.
If the option is under a dropdown, write steps to click on the dropdown to
expand it, and then click on the appropriate option.
Always start from login steps.

Only give the STEPS in JSON format:
{
  "response": {
    "STEP 1": "Click on the Username field.",
    "STEP 2": "Enter the Username in the Username field.",
    "STEP 3": "Click on the Password field."
  }
}

Data : {'Pages': [{'Page': 'Login', 'Objective': 'to login into the
application', 'Elements': [{'Element': 'HRFORALL', 'Type': 'Logo', 'Section':
'Page'}, {'Element': 'Username: Admin', 'Type': 'Text', 'Section': 'Page'},
{'Element': 'Password: admin123', 'Type': 'Text', 'Section': 'Page'},
{'Element': 'Username', 'Type': 'label', 'Section': 'Page'}, {'Element':
'Username', 'Type': 'Input', 'Section': 'Page'}, {'Element': 'Password', 'Type':
'label', 'Section': 'Page'}, {'Element': 'Password', 'Type': 'Input', 'Section':
'Page'}, {'Element': 'Login', 'Type': 'Button', 'Section': 'Page'}, {'Element':
'Forgot your password?', 'Type': 'Link', 'Section': 'Page'}]}, {'Page':
'Dashboard', 'Objective': 'to manage application features', 'Elements':

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'Section': 'Page'}, {'Element': 'Attendance Summary', 'Type': 'Reports info dropdown option', 'Section': 'Page'}]}]}

Following are the user interaction:
user_instructions : Apply for casual leave on 5th october

[ ]: